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				C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
C#	Major	#4,#1,#5,#2 #6,#3,#7	F#,C#,G#,D# A#,E#,B#	Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13	
F#	Major	#4,#1,#5 #2,#6,#3	F#,C#,G# D#,A#,E#		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13
B	Major	#4,#1,#5 #2,#6	F#,C#,G# D#,A#		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13
E	Major	#4,#1,#5,#2	F#,C#,G#,D#		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13
A	Major	#4,#1,#5	F#,C#,G#		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13
D	Major	#4,#1	F#,C#		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13
G	Major	#4	F#		Maj7 9,+11,13	Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13
C	Major				Maj7 9,11,13	Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13
F	Major	b7	Bb		Dom7 9,11,13	Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13	
Bb	Major	b7,b3	Bb,Eb		Min7 9,11,13	Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13	
Eb	Major	b7,b3,b6	Bb,Eb,Ab		Min7 9,11,b13	Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13	
Ab	Major	b7,b3,b6,b2	Bb,Eb,Ab,Db		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13
Db	Major	b7,b3,b6 b2,b5	Bb,Eb,Ab Db,Gb		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13
Gb	Major	b7,b3,b6 b2,b5,b1	Bb,Eb,Ab Db,Gb,Cb		Dom7 9,11,13	Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13	
Cb	Major	b7,b3,b6 b2,b5,b1,b4	Bb,Eb,Ab Db,Gb,Cb,Fb		Min7 9,11,13	Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13	
				C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

	Relative to:	C# Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
A#	Relative Harmonic Minor	#5	#4,#1,x5,#2 #6,#3,#7	F#,C#,Gx,D# A#,E#,B#	Dim7 Min7b5 b9,11,b13	Aug+7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,b13			Dim7 b9,b11,b13	Min+7 9,11,b13	
D#	Relative Jazz Minor	#1	#4,x1,#5,#2 #6,#3,#7	F#,Cx,G#,D# A#,E#,B#	Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug+7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13	
G#	Relative Dominant Major	#4	x4,#1,#5,#2 #6,#3,#7	Fx,C#,G#,D# A#,E#,B#	Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13	
C#	Major		#4,#1,#5,#2 #6,#3,#7	F#,C#,G#,D# A#,E#,B#	Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13	
F#	Relative Sub-Dominant Major	b7	#4,#1,#5,#2 #6,#3	F#,C#,G#,D# A#,E#		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13
C#	Jazz Minor	b3	#4,#1,#5,#2 #6,#7	F#,C#,G#,D# A#,B#	Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug+7 9,+11,b13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13	
C#	Harmonic Major	b6	#4,#1,#5,#2 #3,#7	F#,C#,G#,D# E#,B#	Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,b13		Dom7 b9,11,13	Dim7 Aug+7 +9,+11,+13		
					C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

	Relative to:	F# Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B	
D#	Relative Harmonic Minor	#5	x4,#1,#5 #2,#6,#3	Fx,C#,G# D#,A#,E#			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13	Aug+7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,b13	
G#	Relative Jazz Minor	#1	#4,#1,#5 #2,#6,#3	F#,C#,G# D#,A#,E#		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug+7 9,+11,13	
C#	Relative Dominant Major	#4	#4,#1,#5,#2 #6,#3,#7	F#,C#,G#,D# A#,E#,B#	Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		
F#	Major		#4,#1,#5 #2,#6,#3	F#,C#,G# D#,A#,E#		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13	
B	Relative Sub-Dominant Major	b7	#4,#1,#5 #2,#6	F#,C#,G# D#,A#		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13				Dom7 9,11,13		Min7 9,11,b13	Min7b5 b9,11,b13	Maj7 9,11,13
F#	Jazz Minor	b3	#4,#1,#5 #2,#3	F#,C#,G# D#,E#		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug+7 9,+11,b13		Dom7 9,+11,13	
F#	Harmonic Major	b6	#4,#1,#5 #6,#3	F#,C#,G# A#,E#		Dom7 b9,11,13	Dim7 Aug+7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,b13	
					C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B	

	Relative to:	B Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
G#	Relative Harmonic Minor	#5	x4,#1,#5 #2,#6	Fx,C#,G# D#,A#		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,b13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13	Aug+7 9,11,13
C#	Relative Jazz Minor	#1	#4,#1,#5 #2,#6,#7	F#,C#,G# D#,A#,B#	Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug+7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13	
F#	Relative Dominant Major	#4	#4,#1,#5 #2,#6,#3	F#,C#,G# D#,A#,E#		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13
B	Major		#4,#1,#5 #2,#6	F#,C#,G# D#,A#		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13
E	Relative Sub-Dominant Major	b7	#4,#1,#5 #2	F#,C#,G# D#		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13
B	Jazz Minor	b3	#4,#1,#5 #6	F#,C#,G# A#		Min7 b9,11,13	Aug+7 9,+11,b13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13
B	Harmonic Major	b6	#4,#1 #2,#6	F#,C# D#,A#		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,b13		Dom7 b9,11,13	Dim7 Aug+7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13
					C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

	Relative to:	E Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
C#	Relative Harmonic Minor	#5	#4,#1,#5 #2,#7	F#,C#,G# D#,B#	Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13	Aug+7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,b13		
F#	Relative Jazz Minor	#1	#4,#1,#5 #2,#3	F#,C#,G# D#,E#		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug+7 9,+11,13		Dom7 9,+11,13
B	Relative Dominant Major	#4	#4,#1,#5 #2,#6	F#,C#,G# D#,A#		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13
E	Major		#4,#1,#5,#2	F#,C#,G#,D#		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13
A	Relative Sub-Dominant Major	b7	#4,#1,#5	F#,C#,G#		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13
E	Jazz Minor	b3	#4,#1,#2	F#,C#,D#		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug+7 9,+11,b13		Dom7 9,+11,13		Dom7 9,11,b13
E	Harmonic Major	b6	#4,#5,#2	F#,G#,D#	Dim7 Aug+7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,b13		Dom7 b9,11,13
					C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

	Relative to:	A Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
F#	Relative Harmonic Minor	#5	#4,#1,#5,#3	F#,C#,G#,E#		Dom7 b9,11,b13	Maj7 +9,+11,b13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 b9,11,b13	Aug+7 9,11,13		Dim7 9,+11,13
B	Relative Jazz Minor	#1	#4,#1,#5,#6	F#,C#,G#,A#		Min7 b9,11,13	Aug+7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13
E	Relative Dominant Major	#4	#4,#1,#5,#2	F#,C#,G#,D#		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13
A	Major		#4,#1,#5	F#,C#,G#		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13
D	Relative Sub-Dominant Major	b7	#4,#1	F#,C#		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13
A	Jazz Minor	b3	#4,#5	F#,G#	Aug+7 9,+11,b13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13
A	Harmonic Major	b6	#1,#5	C#,G#		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,b13		Dom7 b9,11,13	Dim7 Aug+7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13
					C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

	Relative to:	D Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
B	Relative Harmonic Minor	#5	#4,#1,#6	F#,C#,A#		Dim7 Min7b5 b9,11,b13	Aug+7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,b13			Dim7 b9,b11,b13	Min+7 9,11,b13
E	Relative Jazz Minor	#1	#4,#1,#2	F#,C#,D#		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug+7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13
A	Relative Dominant Major	#4	#4,#1,#5	F#,C#,G#		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13
D	Major		#4,#1	F#,C#		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13
G	Relative Sub-Dominant Major	b7	#4	F#	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13
D	Jazz Minor	b3	#1	C#		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug+7 9,+11,b13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13
D	Harmonic Major	b6	#4,#1,b7	F#,C#,Bb		Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,b13		Dom7 b9,11,13	Dim7 Aug+7 +9,+11,+13	
					C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

	Relative to:	G Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
E	Relative Harmonic Minor	#5	#4, #2	F#,D#	Dim7 Maj7 +9,+11,b13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13	Aug+7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13
A	Relative Jazz Minor	#1	#4, #5	F#,G#	Aug+7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13
D	Relative Dominant Major	#4	#4, #1	F#,C#		Min7b5 b9,11,b13 Blues b5	Maj7 9,11,13 Pent		Min7 9,11,13 Blues		Min7 b9,11,b13 Blues	Maj7 9,+11,13 Pent		Dom7 9,11,13 Pent		Min7 9,11,b13 Blues
G	Major		#4	F#	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13
C	Relative Sub-Dominant Major	b7			Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13			Dom7 9,11,13		Min7 9,11,b13	Min7b5 b9,11,b13
G	Jazz Minor	b3	#4, b7	F#,Bb	Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug+7 9,+11,b13	
G	Harmonic Major	b6	#4, b3	F#,Eb	Dim7 Min+7 9,+11,b13		Dom7 b9,11,13	Dim7 Aug+7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13
					C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

	Relative to:	C Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
A	Relative Harmonic Minor	#5	#5	G#	Aug+7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,b13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13
D	Relative Jazz Minor	#1	#1	C#		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug+7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13
G	Relative Dominant Major	#4	#4	F#	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13
C	Major				Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13
F	Relative Sub-Dominant Major	b7	b7	Bb	Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13	
C	Jazz Minor	b3	b3	Eb	Min+7 9,11,13		Min7 b9,11,13	Aug+7 9,+11,b13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13
C	Harmonic Major	b6	b6	Ab	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,b13		Dom7 b9,11,13	Dim7 Aug+7 +9,+11,+13			Dim7 b9,11,b13
					C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

	Relative to:	F Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
D	Relative Harmonic Minor	#5	b7,#1	Bb,C#		Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 b9,11,b13	Aug+7 9,11,13		Dim7 9,+11,13		Dom7 b9,11,b13	Maj7 +9,+11,b13	
G	Relative Jazz Minor	#1	b7,#2	Bb,D#	Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug+7 9,+11,13	
C	Relative Dominant Major	#4			Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13
F	Major		b7	Bb	Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13	
Bb	Relative Sub-Dominant Major	b7	b7,b3	Bb,Eb	Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13	
F	Jazz Minor	b3	b7,b6	Bb,Ab	Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug+7 9,+11,b13		Dom7 9,+11,13	
F	Harmonic Major	b6	b7,b2	Bb,Db	Dom7 b9,11,13	Dim7 Aug+7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,b13	
					C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

	Relative to:	Bb Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
G	Relative Harmonic Minor	#5	b7,b3,#4	Bb,Eb,F#	Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,b13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13	Aug+7 9,11,13	
C	Relative Jazz Minor	#1	b3	Eb	Min+7 9,11,13		Min7 b9,11,13	Aug+7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13
F	Relative Dominant Major	#4	b7	Bb	Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13	
Bb	Major		b7,b3	Bb,Eb	Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13	
Eb	Relative Sub-Dominant Major	b7	b7,b3,b6	Bb,Eb,Ab	Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13	
Bb	Jazz Minor	b3	b7,b3,b2	Bb,Eb,Db	Min7 b9,11,13	Aug+7 9,+11,b13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13	
Bb	Harmonic Major	b6	b7,b3,b5	Bb,Eb,Gb	Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,b13		Dom7 b9,11,13	Dim7 Aug+7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13	
					C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

	Relative to:	E♭ Major	C Major		C	C#/D♭	D	D#/E♭	E	F	F#/G♭	G	G#/A♭	A	A#/B♭	B
C	Relative Harmonic Minor	#5	b3,b6	E♭,A♭	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13	Aug+7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Maj7 +9,+11,b13			Dim7 b9,b11,b13
F	Relative Jazz Minor	#1	b7,b6	B♭,A♭	Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug+7 9,+11,13		Dom7 9,+11,13	
B♭	Relative Dominant Major	#4	b7,b3	B♭,E♭	Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13	
E♭	Major		b7,b3,b6	B♭,E♭,A♭	Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13	
A♭	Relative Sub-Dominant Major	b7	b7,b3,b6,b2	B♭,E♭,A♭,D♭	Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13	
E♭	Jazz Minor	b3	b7,b3,b6,b5	B♭,E♭,A♭,G♭	Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug+7 9,+11,b13		Dom7 9,+11,13		Dom7 9,11,b13	
E♭	Harmonic Major	b6	b7,b3,b6,b1	B♭,E♭,A♭,C♭			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,b13		Dom7 b9,11,13	Dim7 Aug+7 +9,+11,+13
					C	C#/D♭	D	D#/E♭	E	F	F#/G♭	G	G#/A♭	A	A#/B♭	B

	Relative to:	Ab Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
F	Relative Harmonic Minor	#5	b7,b6,b2	Bb,Ab,Db	Dom7 b9,11,b13	Maj7 +9,+11,b13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 b9,11,b13	Aug+7 9,11,13		Min7 9,+11,13	
Bb	Relative Jazz Minor	#1	b7,b3,b2	Bb,Eb,Db	Min7 b9,11,13	Aug+7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13	
Eb	Relative Dominant Major	#4	b7,b3,b6	Bb,Eb,Ab	Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13	
Ab	Major		b7,b3,b6,b2	Bb,Eb,Ab,Db	Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13	
Db	Relative Sub-Dominant Major	b7	b7,b3,b6 b2,b5	Bb,Eb,Ab Db,Gb	Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13	
Ab	Jazz Minor	b3	b7,b3,b6 b2,b1	Bb,Eb,Ab Db,Cb		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug+7 9,+11,b13
Ab	Harmonic Major	b6	b7,b3,b6 b2,b4	Bb,Eb,Ab Db,Fb	Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,b13		Dom7 b9,11,13	Dim7 Aug+7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13	
					C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

	Relative to:	Db Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Bb	Relative Harmonic Minor	#5	b7,b3 b2,b5	Bb,Eb Db,Gb	Dim7 Min7b5 b9,11,b13	Aug+7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,b13			Dim7 b9,b11,b13	Min+7 9,11,b13	
Eb	Relative Jazz Minor	#1	b7,b3,b6 b5	Bb,Eb,Ab Gb	Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug+7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13	
Ab	Relative Dominant Major	#4	b7,b3,b6 b2	Bb,Eb,Ab Db	Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13	
Db	Major		b7,b3,b6 b2,b5	Bb,Eb,Ab Db,Gb	Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13	
Gb	Relative Sub-Dominant Major	b7	b7,b3,b6 b2,b5,b1	Bb,Eb,Ab Db,Gb,Cb		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13
Db	Jazz Minor	b3	b7,b3,b6 b2,b5,b4	Bb,Eb,Ab Db,Gb,Fb	Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug+7 9,+11,b13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13	
Db	Harmonic Major	b6	bb7,b3,b6 b2,b5	Bbb,Eb,Ab Db,Gb	Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,b13		Dom7 b9,11,13	Dim7 Aug+7 +9,+11,+13		
					C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

	Relative to:	Gb Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Eb	Relative Harmonic Minor	#5	b7,b3,b6 b5,b1	Bb,Eb,Ab Gb,Cb			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 b9,11,b13	Aug+7 9,11,13		Dim7 9,+11,13		Dom7 b9,11,b13	Maj7 +9,+11,b13
Ab	Relative Jazz Minor	#1	b7,b3,b6 b2,b1	Bb,Eb,Ab Db,Cb		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug+7 9,+11,13
Db	Relative Dominant Major	#4	b7,b3,b6 b2,b5	Bb,Eb,Ab Db,Gb	Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13	
Gb	Major		b7,b3,b6 b2,b5,b1	Bb,Eb,Ab Db,Gb,Cb		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13
Cb	Relative Sub-Dominant Major	b7	b7,b3,b6 b2,b5,b1,b4	Bb,Eb,Ab Db,Gb,Cb,Fb		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13
Gb	Jazz Minor	b3	bb7,b3,b6 b2,b5,b1	Bbb,Eb,Ab Db,Gb,Cb		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug+7 9,+11,b13		Dom7 9,+11,13
Gb	Harmonic Major	b6	b7,bb3,b6 b2,b5,b1	Bb,Ebb,Ab Db,Gb,Cb		Dom7 b9,11,13	Dim7 Aug+7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,b13
					C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

	Relative to:	Cb Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Ab	Relative Harmonic Minor	#5	b7,b3,b6 b2,b1,b4	Bb,Eb,Ab Db,Cb,Fb		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,b13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13	Aug+7 9,11,13
Db	Relative Jazz Minor	#1	b7,b3,b6 b2,b5,b4	Bb,Eb,Ab Db,Gb,Fb	Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug+7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13	
Gb	Relative Dominant Major	#4	b7,b3,b6 b2,b5,b1	Bb,Eb,Ab Db,Gb,Cb		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13
Cb	Major		b7,b3,b6 b2,b5,b1,b4	Bb,Eb,Ab Db,Gb,Cb,Fb		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13
Fb	Relative Sub-Dominant Major	b7	bb7,b3,b6 b2,b5,b1,b4	Bbb,Eb,Ab Db,Gb,Cb,Fb		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13
Cb	Jazz Minor	b3	b7,bb3,b6 b2,b5,b1,b4	Bb,Ebb,Ab Db,Gb,Cb,Fb		Min7 b9,11,13	Aug+7 9,+11,b13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13
Cb	Harmonic Major	b6	b7,b3,bb6 b2,b5,b1,b4	Bb,Eb,Abb Db,Gb,Cb,Fb		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,b13		Dom7 b9,11,13	Dim7 Aug+7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13
					C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Cb

	Relative to:	Ab Harm Min	Cb Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Cb	Major +5+13	#1	#5,#6	b7,b3,b4 b2,b1	Bb,Eb,Fb Db,Cb		xxx 9,+11,13		Dom7 b9,+11,b13	xxx +9,+11,13			Dim7 9,b11,b13		Dom7b5 xxx b9,b11,bb13	Min+7b5 b9,11,13	Aug7 9,11,+13
Ab	Relative Double Harmonic Minor	#4	#5,#2	b7,b3,b6,b4 b1	Bb,Eb,Ab,Fb Cb			xxx b9,11,b13	Maj7 b9,11,b13	Maj7 +9,+11,+13			Minbb7 b9,b11,b13	Min+7 9,+11,b13		Dom7b5 b9,11,13	Aug7 +9,11,13
Ab	Relative Harmonic Major	#3	#5,#1	b7,b3,b6,b4 b2	Bb,Eb,Ab,Fb Db	Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13	
Ab	Relative Dominant's Relative Jazz Minor	#6	#5,#4	b7,b3,b6, b2,b1	Bb,Eb,Ab, Db,Cb		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13
Ab	Relative Harmonic Minor		#5	b7,b3,b6,b4 b2,b1	Bb,Eb,Ab,Fb Db,Cb		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13
Cb	Major	b7		b7,b3,b6,b4 b2,b1,b5	Bb,Eb,Ab,Fb Db,Cb,Gb		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13
Fb	Relative Subdominant Maj +9	b2	#5,b7	bb7,b3,b6,b4 b2,b1	Bbb,Eb,Ab,Fb Db,Cb		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx b9,b11,b13	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13
Cb	Jazz Minor +5	b5	#5,b3	b7,bb3,b6,b4 b2,b1	Bb,Ebb,Ab,Fb Db,Cb		Dim7 Min7 b9,+11,13	xxx 9,+11,13		Dim7 Dom7 +9,+11,13			Dim7 b9,b11,bb13	xxx 9,11,b13		Dim7 Min7b5 b9,11,13	xxx 9,11,13
Cb	Major b9+5	b4	#5,b2	b7,b3,b6,b4 bb2,b1	Bb,Eb,Ab,Fb Dbb,Cb	Dom7 Aug7 +9,+11,+13			Maj6 b9,11,b13	Maj7 +9,+11,b13			xxx b9,b11,b13	Maj7 Min+7 9,b11,b13		Min7b5 b9,11,13	Aug7 b9,11,13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Cb

	Relative to:	Db Jazz Min.	Cb Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Db	Relative Jazz Minor +13	#6	#1,#7	b3,b6,b4 b5,b2	Eb,Ab,Fb Gb,Db	Min+7b5 b9,b11,b13	Min+7 9,11,+13		xxx b9,11,13	Maj7 Aug7 9,+11,13		xxx 9,+11,13		Dom7 +9,11,b13			xxx b9,b11,bb13
Db	Relative Jazz Minor +5	#5	#1,#6	b7,b3,b4 b5,b2	Bb,Eb,Fb Gb,Db	Dom7b5/Dim7 Min7b5 b9,b11,13	xxx 9,11,13		Dim7 Min7 b9,+11,13	xxx 9,+11,13		Dim7 Dom7 +9,+11,13			Dom7 Dim7 b9,b11,bb13	Min+7b5 9,11,b13	
Ab	Relative Harmonic Major	#4	#1,#5	b7,b3,b6,b4 b2	Bb,Eb,Ab,Fb Db	Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13	
Ab	Whole Tone	#1	#1,#2	b7,b3,b6,b4 b5	Bb,Eb,Ab,Fb Gb	Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13		Dom7b5 9,+11,b13		Dom7b5 9,11,b13	
Db	Relative Dominant's Relative Dominant Major	#3	#1,#4	b7,b3,b6 b5,b2	Bb,Eb,Ab Gb,Db	Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13	
Db	Relative Jazz Minor		#1	b7,b3,b6,b4 b5,b2	Bb,Eb,Ab,Fb Gb,Db	Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13	
Cb	Major	b7		b7,b3,b6,b4 b5,b2,b1	Bb,Eb,Ab,Fb Gb,Db,Cb		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13
Db	Relative SubDominant's Relative Harm Minor	b6	#1,b7	bb7,b3,b6,b4 b5,b2	Bbb,Eb,Ab,Fb Gb,Db	Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13		
Gb	Whole Tone	b2	#1,b3	b7,bb3,b6,b4 b5,b2	Bb,Ebb,Ab,Fb Gb,Db	Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13	
Db	Relative Jazz Minor b5	b5	#1,b6	b7,b3,bb6,b4 b5,b2	Bb,Eb,Abb,Fb Gb,Db	Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13	Dim7 Minb5+7 9,+11,b13		Dom7 b9,+11,13	Dim7 Aug7 +9,+11,13		Dim7 9,11,b13		
Db	Relative Jazz Minor b11	b4	#1,b5	b7,b3,b6,b4 bb5,b2	Bb,Eb,Ab,Fb Gbb,Db	xxx b9,b11,b13	Maj7 Min+7 9,b11,13		xxx b9,11,13	Aug7 b9,+11,13	xxx +9,+11,+13			xxx 9,11,b13		Min7b5 9,11,b13	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Cb

	Relative to:	Gb Major	Cb Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Gb	Relative Dominant Major +13	#6	#4,#3	b7,b6, b5,b2,b1	Bb,Ab, Gb,Db,Cb		Dom7 +9,11,13			xxx	Min+7b5 b9,11,b13	Dom7 Maj7 9,11,+13		xxx		Min7 b9,+11,b13	xxx
Gb	Relative Dominant Major +9	#2	#4,#6	b7,b3, b5,b2,b1	Bb,Eb, Gb,Db,Cb		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13
Eb	Relative Dominant's Relative Harmonic Minor	#5	#4,#2	b7,b3,b6, b5,b1	Bb,Eb,Ab, Gb,Cb			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13
Ab	Relative Dominant's Relative Jazz Minor	#1	#4,#5	b7,b3,b6, b2,b1	Bb,Eb,Ab, Db,Cb		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13
Db	Relative Dominant's Relative Dominant Major	#4	#4,#1	b7,b3,b6, b5,b2	Bb,Eb,Ab, Gb,Db	Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13	
Gb	Relative Dominant Major		#4	b7,b3,b6, b5,b2,b1	Bb,Eb,Ab, Gb,Db,Cb		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13
Cb	Major	b7		b7,b3,b6,b4, b5,b2,b1	Bb,Eb,Ab,Fb Gb,Db,Cb		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13
Gb	Relative Dominant Jazz Minor	b3	#4,b7	bb7,b3,b6, b5,b2,b1	Bbb,Eb,Ab, Gb,Db,Cb		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13
Gb	Relative Dominant Harmonic Major	b6	#4,b3	b7,bb3,b6, b5,b2,b1	Bb,Ebb,Ab, Gb,Db,Cb		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13
Gb	Relative Dominant Major b9	b2	#4,b6	b7,b3,bb6, b5,b2,b1	Bb,Eb,Abb, Gb,Db,Cb		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13
Gb	Relative Dominant Major b5	b5	#4,b2	b7,b3,b6, b5,bb2,b1	Bb,Eb,Ab, Gb,Dbb,Cb	xxx			Minbb7 9,11,b13		Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13		xxx	Maj7 b9,+11,13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Cb

	Relative to:	Cb Major	Cb Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Cb	Major +13	#6	#6	b7,b5 b2,b1	Bb,Gb Db,Cb		xxx 9,11,13		Min7 b9,+11,b13	xxx		Dom7 +9,11,13			xxx	Min+7b5 b9,11,b13	Dom7 Maj7 9,11,+13
Cb	Major +9	#2	#2	b7,b3,b6,b4 b5,b1	Bb,Eb,Ab,Fb Gb,Cb			xxx	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13
Ab	Relative Harmonic Minor	#5	#5	b7,b3,b6,b4 b2,b1	Bb,Eb,Ab,Fb Db,Cb		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13	Aug7 9,11,13
Db	Relative Jazz Minor	#1	#1	b7,b3,b6,b4 b5,b2	Bb,Eb,Ab,Fb Gb,Db	Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13	
Gb	Relative Dominant Major	#4	#4	b7,b3,b6, b5,b2,b1	Bb,Eb,Ab, Gb,Db,Cb		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13
Cb	Major			b7,b3,b6,b4 b5,b2,b1	Bb,Eb,Ab,Fb Gb,Db,Cb		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13
Fb	Relative Sub-Dominant Major	b7	b7	bb7,b3,b6,b4 b5,b2,b1	Bbb,Eb,Ab,Fb Gb,Db,Cb		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13
Cb	Jazz Minor	b3	b3	b7,bb3,b6,b4 b5,b2,b1	Bb,Ebb,Ab,Fb Gb,Db,Cb		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13
Cb	Harmonic Major	b6	b6	b7,b3,bb6,b4 b5,b2,b1	Bb,Eb,Abb,Fb Gb,Db,Cb		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13
Cb	Major b9	b2	b2	b7,b3,b6,b4 b5,bb2,b1	Bb,Eb,Ab,Fb Gb,Dbb,Cb	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13
Cb	Major b5	b5	b5	b7,b3,b6,b4 bb5,b2,b1	Bb,Eb,Ab,Fb Gbb,Db,Cb		Min7 9,b11,13		xxx	Maj7 b9,+11,13	xxx			Minbb7 9,11,b13		Min7b5 b9,11,bb13	Maj7b5 9,11,13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Cb

	Relative to:	Fb Major	Cb Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Fb	Relative Sub-Dominant Maj+13	#6	b7,#2	bb7,b3,b6,b4 b5,b1	Bbb,Eb,Ab,Fb Gb,Cb			xxx b9,b11,bb13	Min+7b5 b9,11,b13	Maj7 9,11,+13		xxx 9,11,13		Min7 b9,+11,b13	xxx 9,+11,13		Dom7 +9,11,13
Fb	Relative Sub-Dominant Maj+9	#2	b7,#5	bb7,b3,b6,b4 b2,b1	Bbb,Eb,Ab,Fb Db,Cb		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx b9,b11,b13	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13
Db	Relative Harmonic Minor	#5	b7,#1	bb7,b3,b6,b4 b5,b2	Bbb,Eb,Ab,Fb Gb,Db	Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13		
Gb	Relative Subdominant's Relative Jazz minor	#1	b7,#4	bb7,b3,b6, b5,b2,b1	Bbb,Eb,Ab, Gb,Db,Cb		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13
Cb	Major	#4		b7,b3,b6,b4 b5,b2,b1	Bb,Eb,Ab,Fb Gb,Db,Cb		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13
Fb	Relative Sub-Dominant Major		b7	bb7,b3,b6,b4 b5,b2,b1	Bbb,Eb,Ab,Fb Gb,Db,Cb		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13
Bbb	Relative Sub-Dominant's Relative Sub-Dominant Major	b7	b7,b3	bb7,bb3,b6,b4 b5,b2,b1	Bbb,Ebb,Ab,Fb Gb,Db,Cb		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13
Fb	Relative Sub-Dominant Jazz Minor	b3	b7,b6	bb7,b3,bb6,b4 b5,b2,b1	Bbb,Eb,Abb,Fb Gb,Db,Cb		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13
Fb	Relative Sub-Dominant Harmonic Major	b6	b7,b2	bb7,b3,b6,b4 b5,bb2,b1	Bbb,Eb,Ab,Fb Gb,Dbb,Cb	Dim7 Aug7 +9,+11,13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13
Fb	Relative Sub-Dominant Major b9	b2	b7,b5	bb7,b3,b6,b4 bb5,b2,b1	Bbb,Eb,Ab,Fb Gbb,Db,Cb		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13
Fb	Relative Sub-Dominant Majb5	b5	b7,b1	bb7,b3,b6,b4 b5,b2,bb1	Bbb,Eb,Ab,Fb Gb,Db,Cbb		Minbb7 9,11,b13		Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13		xxx b9,11,b13	Maj7 b9,+11,13	xxx +9,+11,+13	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Cb

	Relative to:	Cb Jazz Min.	Cb Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Cb	Jazz Minor +13	#6	b3, #6	b7,bb3,b4 b5,b2,b1	Bb,Ebb,Fb Gb,Db,Cb		xxx b9,11,13	xxx 9,++11,13		xxx 9,+11,13		Dom7 +9,11,b13			xxx b9,b11,bb13	Min+7b5 b9,b11,b13	Min+7 9,11,+13
Cb	Jazz Minor +5	#5	b3, #5	b7,bb3,b6,b4 b2,b1	Bb,Ebb,Ab,Fb Db,Cb		Dim7 Min7 b9,+11,13	xxx 9,+11,13		Dim7 Dom7 +9,+11,13			Dim7 b9,b11,bb13	xxx 9,11,b13		Dim7 Min7b5 b9,11,13	xxx 9,11,13
Gb	Whole Tone	#1	b3, #1	b7,bb3,b6,b4 b5,b2	Bb,Ebb,Ab,Fb Gb,Db	Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13	
Gb	Relative Dominant Harmonic Major	#4	b3,#4	b7,bb3,b6, b5,b2,b1	Bb,Ebb,Ab, Gb,Db,Cb		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13
Cb	Major	#3		b7,b3,b6,b4 b5,b2,b1	Bb,Eb,Ab,Fb Gb,Db,Cb		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13
Cb	Jazz Minor		b3	b7,bb3,b6,b4 b5,b2,b1	Bb,Ebb,Ab,Fb Gb,Db,Cb		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13
Bbb	Relative Sub-Dominant's Relative Sub-Dominant Major	b7	b3, b7	bb7,bb3,b6,b4 b5,b2,b1	Bbb,Ebb,Ab,Fb Gb,Db,Cb		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13
Cb	Harmonic Minor	b6	b3, b6	b7,bb3,bb6,b4 b5,b2,b1	Bb,Ebb,Abb,Fb Gb,Db,Cb		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13
Fb	Whole Tone	b2	b3, b2	b7,bb3,b6,b4 b5,bb2,b1	Bb,Ebb,Ab,Fb Gb,Dbb,Cb	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,b13	Min+7 b9,11,13
Cb	Jazz Minor b5	b5	b3, b5	b7,bb3,b6,b4 bb5,b2,b1	Bb,Ebb,Ab,Fb Gbb,Db,Cb		Dom7 Min7 b9,b11,13	Dim7 xxx 9,+11,13		Dom7 b9,+11,13	Dim7 xxx +9,+11,13			Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13
Cb	Jazz Minor b11	b4	b3, b4	b7,bb3,b6,bb4 b5,b2,b1	Bb,Ebb,Ab,Fbb Gb,Db,Cb		xxx b9,11,13	Aug7 b9,+11,13	xxx +9,++11,+13			Maj6 9,11,b13		Min7b5 9,11,bb13		Min7bb5 b9,b11,b13	Maj7 Min+7 9,b11,13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Cb

	Relative to:	Cb Harm. Maj	Cb Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Cb	Harmonic Major +9	#2	b6, #2	b7,b3,bb6,b4 b5,b1	Bb,Eb,Abb,Fb Gb,Cb			xxx b9,b11,b13	Min+7 b9,b11,b13	Min+7 9,+11,+13		Dom7+5 b9,11,13	Aug7 +9,+11,13			xxx b9,11,b13	Maj7 +9,11,b13
Db	Relative Jazz Minor b5	#1	b6, #1	b7,b3,bb6,b4 b5,b2	Bb,Eb,Abb,Fb Gb,Db	Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13	Dim7 Minb5+7 9,+11,b13		Dom7 b9,+11,13	Dim7 Aug7 +9,+11,13			Dim7 9,11,b13	
Gb	Relative Dominant Major b9	#4	b6, #4	b7,b3,bb6, b5,b2,b1	Bb,Eb,Abb, Gb,Db,Cb		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13
Cb	Major	#6		b7,b3,b6,b4 b5,b2,b1	Bb,Eb,Ab,Fb Gb,Db,Cb		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13
Cb	Harmonic Major		b6	b7,b3,bb6,b4 b5,b2,b1	Bb,Eb,Abb,Fb Gb,Db,Cb		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13
Fb	Relative Sub-Dominant Jazz Minor	b7	b6, b7	bb7,b3,bb6,b4 b5,b2,b1	Bbb,Eb,Abb,Fb Gb,Db,Cb		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13
Db	Harmonic Minor	b3	b6,b3	b7,bb3,bb6,b4 b5,b2,b1	Bb,Ebb,Abb,Fb Gb,Db,Cb		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13
Fb	Relative Sub-Dominant Double Harmonic Minor	b2	b6, b2	b7,b3,bb6,b4 b5,bb2,b1	Bb,Eb,Abb,Fb Gb,Db,Cb	Maj7 +9,+11,+13			Min6 b9,b11,b13	Min+7 9,+11,b13		Dom7b5 b9,11,13	Aug7 +9,11,+13			xxx b9,11,b13	Maj7 b9,11,b13
Cb	Harmonic Major b5	b5	b6, b5	b7,b3,bb6,b4 bb5,b2,b1	Bb,Eb,Abb,Fb Gbb,Db,Cb		Dom7b5/Dim7 Min7b5 9,b11,13		Dom7 xxx b9,b11,b13	Dim7 Min+7 b9,+11,13	xxx 9,+11,+13		Dim7 Dom7+5 +9,+11,+13			Dim7 b9,11,bb13	Maj7b5 9,11,b13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Gb

	Relative to:	Eb Harm Min	Gb Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Gb	Major +5+13	#1	#5,#6	b7,b6,b1,b5	Bb,Ab,Cb,Gb			Dim7 9,b11,b13		Dom7b5 xxx b9,b11,bb13	Min+7b5 b9,11,13	Aug7 9,11,+13		xxx 9,+11,13		Dom7 b9,+11,b13	xxx +9,+11,13
Eb	Relative Double Harmonic Minor	#4	#5,#2	b7,b3 b1,b5	Bb,Eb Cb,Gb			Minbb7 b9,b11,b13	Min+7 9,+11,b13		Dom7b5 b9,11,13	Aug7 +9,11,13		xxx b9,11,b13		Maj7 b9,11,b13	Maj7 +9,+11,+13
Eb	Relative Harmonic Major	#3	#5,#1	b7,b3,b6,b1	Bb,Eb,Ab,Cb			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13
Eb	Relative Dominant's Relative Jazz Minor	#6	#5,#4	b7,b3,b6,b5	Bb,Eb,Ab,Gb			Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13	
Eb	Relative Harmonic Minor		#5	b7,b3,b6 b1,b5	Bb,Eb,Ab Cb,Gb			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13
Gb	Major	b7		b7,b3,b2 b6,b1,b5	Bb,Eb,Db Ab,Cb,Gb		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13
Cb	Relative Subdominant Maj +9	b2	#5,b7	b7,b3,b6 b1,b5,b4	Bb,Eb,Ab Cb,Gb,Fb			xxx b9,b11,b13	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13
Gb	Jazz Minor +5	b5	#5,b3	bb7,b3,b6 b1,b5	Bbb,Eb,Ab Cb,Gb			Dim7 b9,b11,bb13	xxx 9,11,b13		Dim7 Min7b5 b9,11,13	xxx 9,11,13		Dim7 Min7 b9,+11,13	xxx 9,+11,13		Dim7 Dom7 +9,+11,13
Gb	Major b9+5	b4	#5,b2	b7,b3,bb6 b1,b5	Bb,Eb,Abb Cb,Gb			xxx b9,b11,b13	Maj7 Min+7 9,b11,b13		Min7b5 b9,11,13	Aug7 b9,11,13	Dom7 Aug7 +9,+11,+13			Maj6 b9,11,b13	Maj7 +9,+11,b13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Gb

	Relative to:	Ab Jazz Min.	Gb Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Ab	Relative Jazz Minor +13	#6	#1,#7	b7,b3,b2 b6,b1,#4	Bb,Eb,Db Ab,Cb,F#		xxx 9,+11,13		Dom7 +9,11,b13			xxx b9,b11,bb13	Min+7b5 b9,b11,b13	Min+7 9,11,+13		xxx b9,11,13	Maj7 Aug7 9,+11,13
Ab	Relative Jazz Minor +5	#5	#1,#6	b7,b2,b6,b1	Bb,Db,Ab,Cb		Dim7 Dom7 +9,+11,13			Dom7 Dim7 b9,b11,bb13	Min+7b5 9,11,b13		Dom7b5/Dim7 Min7b5 b9,b11,13	xxx 9,11,13		Dim7 Min7 b9,+11,13	xxx 9,+11,13
Eb	Relative Harmonic Major	#4	#1,#5	b7,b3,b2,b1	Bb,Eb,Db,Cb			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13
Eb	Whole Tone	#1	#1,#2	b7,b3,b6,b1	Bb,Eb,Ab,Cb		Dom7b5 Dom7+5 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13
Ab	Relative Dominant's Relative Dominant Major	#3	#1,#4	b7,b3,b2,b6	Bb,Eb,Db,Ab		Min7 b9,11,b13	Maj7 9,+11,13	Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13	
Ab	Relative Jazz Minor		#1	b7,b3,b2 b6,b1	Bb,Eb,Db Ab,Cb		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13
Gb	Major	b7		b7,b3,b2 b6,b1,b5	Bb,Eb,Db Ab,Cb,Gb		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13
Ab	Relative SubDominant's Relative Harm Minor	b6	#1,b7	b7,b3,b2 b6,b1,b4	Bb,Eb,Db Ab,Cb,Fb		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13
Db	Whole Tone	b2	#1,b3	bb7,b3,b2 b6,b1	Bbb,Eb,Db Ab,Cb		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13
Ab	Relative Jazz Minor b5	b5	#1,b6	b7,bb3,b2 b6,b1	Bb,Ebb,Db Ab,Cb		Dom7 b9,+11,13	Dim7 Aug7 +9,+11,13			Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13	Dim7 Minb5+7 9,+11,b13
AB	Relative Jazz Minor b11	b4	#1,b5	b7,b3,bb2 b6,b1	Bb,Eb,Dbb Ab,Cb		xxx +9,+11,+13		xxx 9,11,b13		Min7b5 9,11,b13		xxx b9,b11,b13	Maj7 Min+7 9,b11,13		xxx b9,11,13	Aug7 b9,+11,13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Gb

	Relative to:	Db Major	Gb Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Db	Relative Dominant Major +13	#6	#4,#3	b3,b2,b6,b5	Eb,Db,Ab,Gb	Min+7b5 b9,11,b13	Dom7 Maj7 9,11,+13		xxx		Min7 b9,+11,b13	xxx		Dom7 +9,11,13			xxx
Db	Relative Dominant Major +9	#2	#4,#6	b7,b2 b6,b5	Bb,Db Ab,Gb	Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13	
Bb	Relative Dominant's Relative Harmonic Minor	#5	#4,#2	b7,b3,b2,b5	Bb,Eb,Db,Gb	Dim7 Min7b5 b9,11,b13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13	
Eb	Relative Dominant's Relative Jazz Minor	#1	#4,#5	b7,b3,b6,b5	Bb,Eb,Ab,Gb	Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13	
Ab	Relative Dominant's Relative Dominant Major	#4	#4,#1	b7,b3,b2,b6	Bb,Eb,Db,Ab	Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13	
Db	Relative Dominant Major		#4	b7,b3,b2 b6,b5	Bb,Eb,Db Ab,Gb	Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13	
Gb	Major	b7		b7,b3,b2 b6,b5,b1	Bb,Eb,Db Ab,Gb,Cb		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13
Db	Relative Dominant Jazz Minor	b3	#4,b7	b7,b3,b2 b6,b5,b4	Bb,Eb,Db Ab,Gb,Fb	Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13	
Db	Relative Dominant Harmonic Major	b6	#4,b3	bb7,b3,b2 b6,b5	Bbb,Eb,Db Ab,Gb	Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13		
Db	Relative Dominant Major b9	b2	#4,b6	b7,bb3,b2 b6,b5	Bb,Ebb,Db Ab,Gb	xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13	
Db	Relative Dominant Major b5	b5	#4,b2	b7,b3,b2 bb6,b5	Bb,Eb,Db Abb,Gb	Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13		xxx	Maj7 b9,+11,13	xxx			Minbb7 9,11,b13	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Gb

	Relative to:	Gb Major	Gb Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B	
Gb	Major +13	#6	#6	b7,b6,b5 b2,b1	Bb,Ab,Gb Db,Cb		Dom7 +9,11,13			xxx	Min+7b5 b9,11,b13	Dom7 Maj7 9,11,+13		xxx 9,11,13		Min7 b9,+11,b13	xxx	
Gb	Major +9	#2	#2	b7,b3, b5,b2,b1	Bb,Eb, Gb,Db,Cb		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13	
Eb	Relative Harmonic Minor	#5	#5	b7,b3,b6 b5,b1	Bb,Eb,Ab Gb,Cb			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13	
Ab	Relative Jazz Minor	#1	#1	b7,b3,b6 b2,b1	Bb,Eb,Ab Db,Cb		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13	
Db	Relative Dominant Major	#4	#4	b7,b3,b6 b5,b2	Bb,Eb,Ab Gb,Db		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13	
Gb	Major			b7,b3,b6 b5,b2,b1	Bb,Eb,Ab Gb,Db,Cb		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13	
Cb	Relative Sub-Dominant Major	b7	b7	b7,b3,b6,b5 b2,b1,b4	Bb,Eb,Ab,Gb Db,Cb,Fb		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13	
Gb	Jazz Minor	b3	b3	bb7,b3,b6 b5,b2,b1	Bbb,Eb,Ab Gb,Db,Cb		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13	
Gb	Harmonic Major	b6	b6	b7,bb3,b6 b5,b2,b1	Bb,Ebb,Ab Gb,Db,Cb		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13				Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13
Gb	Major b9	b2	b2	b7,b3,bb6 b5,b2,b1	Bb,Eb,Abb Gb,Db,Cb		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13	
Gb	Major b5	b5	b5	b7,b3,b6 b5,bb2,b1	Bb,Eb,Ab Gb,Dbb,Cb		xxx		Minbb7 9,11,b13		Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13		xxx	Maj7 b9,+11,13	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B	

Second Order Alterations: Gb

	Relative to:	Cb Major	Gb Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Cb	Relative Sub-Dominant Maj+13	#6	b7,#2	b7,b3,b2 b1,b5,b4	Bb,Eb,Db Cb,Gb,Fb		xxx 9,11,13		Min7 b9,+11,b13	xxx 9,+11,13		Dom7 +9,11,13			xxx b9,b11,bb13	Min+7b5 b9,11,b13	Maj7 9,11,+13
Cb	Relative Sub-Dominant Maj+9	#2	b7,#5	b7,b3,b6 b1,b5,b4	Bb,Eb,Ab Cb,Gb,Fb			xxx b9,b11,b13	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13
Ab	Relative Harmonic Minor	#5	b7,#1	b7,b3,b2,b6 b1,b4	Bb,Eb,Db,Ab Cb,Fb		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13		Dim7 b9,b11,b13		Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13
Db	Relative Subdominant's Relative Jazz minor	#1	b7,#4	b7,b3,b2 b6,b5,b4	Bb,Eb,Db Ab,Gb,Fb	Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13	
Gb	Major	#4		b7,b3,b2 b6,b1,b5	Bb,Eb,Db Ab,Cb,Gb		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13
Cb	Relative Sub-Dominant Major		b7	b7,b3,b2,b6 b1,b5,b4	Bb,Eb,Db,Ab Cb,Gb,Fb		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13
Fb	Relative Sub-Dominant's Relative Sub-Dominant Major	b7	b7,b3	bb7,b3,b2,b6 b1,b5,b4	Bbb,Eb,Db,Ab Cb,Gb,Fb		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13
Cb	Relative Sub-Dominant Jazz Minor	b3	b7,b6	b7,bb3,b2,b6 b1,b5,b4	Bb,Ebb,Db,Ab Cb,Gb,Fb		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13
Cb	Relative Sub-Dominant Harmonic Major	b6	b7,b2	b7,b3,b2,bb6 b1,b5,b4	Bb,Eb,Db,Abb Cb,Gb,Fb		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13			Dim7 b9,11,b13	Maj7 9,11,b13
Cb	Relative Sub-Dominant Major b9	b2	b7,b5	b7,b3,bb2,b6 b1,b5,b4	Bb,Eb,Dbb,Ab Cb,Gb,Fb	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13
Cb	Relative Sub-Dominant Majb5	b5	b7,b1	b7,b3,b2,b6 b1,bb5,b4	Bb,Eb,Db,Ab Cb,Gbb,Fb		Min7 9,b11,13		xxx b9,11,b13	Maj7 b9,+11,13	xxx +9,+11,+13			Minbb7 9,11,b13		Min7b5 b9,11,bb13	Maj7b5 9,11,13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Gb

	Relative to:	Gb Jazz Min.	Gb Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Gb	Jazz Minor +13	#6	b3, #6	bb7,b2,b6 b1,b5	Bbb,Eb,Db,Ab Cb,Gb		Dom7 +9,11,b13			xxx b9,b11,bb13	Min+7b5 b9,b11,b13	Min+7 9,11,+13		xxx b9,11,13	xxx 9,++11,13		xxx 9,+11,13
Gb	Jazz Minor +5	#5	b3, #5	bb7,b3,b6 b1,b5	Bbb,Eb,Ab Cb,Gb			Dim7 b9,b11,bb13	xxx 9,11,b13		Dim7 Min7b5 b9,11,13	xxx 9,11,13		Dim7 Min7 b9,+11,13	xxx 9,+11,13		Dim7 Dom7 +9,+11,13
Db	Whole Tone Whole Tone	#1	b3, #1	bb7,b3,b2 b6,b1	Bbb,Eb,Db Ab,Cb		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 9,+11,13
Db	Relative Dominant Harmonic Major	#4	b3,#4	bb7,b3,b2 b6,b5	Bbb,Eb,Db Ab,Gb	Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13		
Gb	Major	#3		b7,b3,b2 b6,b1,b5	Bb,Eb,Db Ab,Cb,Gb		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13
Gb	Jazz Minor		b3	bb7,b3,b2 b6,b1,b5	Bbb,Eb,Db Ab,Cb,Gb		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13
Fb	Relative Sub-Dominant's Relative Sub-Dominant Major	b7	b3, b7	bb7,b3,b2 b6,b1,b5,b4	Bbb,Eb,Db Ab,Cb,Gb,Fb		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13
Gb	Harmonic Minor	b6	b3, b6	bb7,bb3,b2 b6,b1,b5	Bbb,Ebb,Db Ab,Cb,Gb		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13
Cb	Whole Tone	b2	b3, b2	bb7,b3,b2 bb6,b1,b5	Bbb,Eb,Db Abb,Cb,Gb		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,b13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13		Dom7b5 Dom7 9,+11,b13
Gb	Jazz Minor b5	b5	b3, b5	bb7,b3,bb2 b6,b1,b5	Bbb,Eb,Dbb Ab,Cb,Gb	Dim7 xxx +9,+11,13			Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13	Dim7 xxx 9,+11,13		Dom7 b9,+11,13
Gb	Jazz Minor b11	b4	b3, b4	bb7,b3,b2 b6,bb1,b5	Bbb,Eb,Db Ab,Cbb,Gb		Maj6 9,11,b13		Min7b5 9,11,bb13		Min7bb5 b9,b11,b13	Maj7 Min+7 9,b11,13		xxx b9,11,13	Aug7 b9,+11,13	xxx +9,+11,+13	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Gb

	Relative to:	Gb Harm. Maj	Gb Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Gb	Harmonic Major +9	#2	b6, #2	b7,bb3,b2 b1,b5	Bb,Ebb,Db Cb,Gb		Dom7+5 b9,11,13	Aug7 +9,+11,13			xxx b9,11,b13	Maj7 +9,11,b13			xxx b9,b11,b13	Min+7 b9,b11,b13	Min+7 9,+11,+13
Ab	Relative Jazz Minor b5	#1	b6, #1	b7,bb3,b2 b6,b1	Bb,Ebb,Db Ab,Cb		Dom7 b9,+11,13	Dim7 Aug7 +9,+11,13			Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13	Dim7 Minb5+7 9,+11,b13
Db	Relative Dominant Major b9	#4	b6, #4	b7,bb3,b2 b6,b5	Bb,Ebb,Db Ab,Gb	xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13	
Gb	Major	#6		b7,b3,b2 b6,b1,b5	Bb,Eb,Db Ab,Cb,Gb		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13
Gb	Harmonic Major		b6	b7,bb3,b2 b6,b1,b5	Bb,Ebb,Db Ab,Cb,Gb		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13
Cb	Relative Sub-Dominant Jazz Minor	b7	b6, b7	b7,bb3,b2 b6,b1,b5,b4	Bb,Ebb,Db Ab,Cb,Gb,Fb		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13
Ab	Harmonic Minor	b3	b6,b3	bb7,bb3,b2 b6,b1,b5	Bbb,Ebb,Db Ab,Cb,Gb		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13
Cb	Relative Sub-Dominant Double Harmonic Minor	b2	b6, b2	b7,bb3,b2 bb6,b1,b5	Bb,Ebb,Db Abb,Cb,Gb		Dom7b5 b9,11,13	Aug7 +9,+11,+13			xxx b9,11,b13	Maj7 b9,11,b13	Maj7 +9,+11,+13			Min6 b9,b11,b13	Min+7 9,+11,b13
Gb	Harmonic Major b5	b5	b6, b5	b7,bb3,bb2 b6,b1,b5	Bb,Ebb,Dbb Ab,Cb,Gb	xxx 9,+11,+13		Dim7 Dom7+5 +9,+11,+13			Dim7 b9,11,bb13	Maj7b5 9,11,b13		Dom7b5/Dim7 Min7b5 9,b11,13		Dom7 xxx b9,b11,b13	Dim7 Min+7 b9,+11,13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Db

	Relative to:	Bb Harm Min	Db Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Db	Major +5+13	#1	#5,#6	b3,b5,b2	Eb,Gb,Db	Min7b5 b9,11,13	Aug7 9,11,+13		xxx 9,+11,13		Dom7 b9,+11,b13	xxx +9,+11,13			Dim7 9,b11,b13		Dom7b5 xxx b9,b11,bb13
Bb	Relative Double Harmonic Minor	#4	#5,#2	b7,b5,b2	Bb,Gb,Db	Dom7b5 b9,11,13	Aug7 +9,11,13			xxx b9,11,b13	Maj7 b9,11,b13	Maj7 +9,+11,+13			Minbb7 b9,b11,b13	Min+7 9,+11,b13	
Bb	Relative Harmonic Major	#3	#5,#1	b7,b3,b5	Bb,Eb,Gb	Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13			Dim7 b9,11,b13	Maj7 9,11,b13	
Bb	Relative Dominant's Relative Jazz Minor	#6	#5,#4	b7,b3,b2	Bb,Eb,Db	Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13	
Bb	Relative Harmonic Minor		#5	b7,b3,b5,b2	Bb,Eb,Gb,Db	Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13	
Db	Major	b7		b7,b3,b6 b5,b2	Bb,Eb,Ab Gb,Db	Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13	
Gb	Relative Subdominant Maj +9	b2	#5,b7	b7,b3,b5 b2,b1	Bb,Eb,Gb Db,Cb		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx b9,b11,b13	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13
Db	Jazz Minor +5	b5	#5,b3	b7,b3,b5 b2,b4	Bb,Eb,Gb Db,Fb	Dim7 Min7b5 b9,11,13	xxx 9,11,13		Dim7 Min7 b9,+11,13	xxx 9,+11,13		Dim7 Dom7 +9,+11,13			Dim7 b9,b11,bb13	xxx 9,11,b13	
Db	Major b9+5	b4	#5,b2	b7,bb3,b5,b2	Bb,Ebb,Gb,Db	Min7b5 b9,11,13	Aug7 b9,11,13	Dom7 Aug7 +9,++11,+13			Maj6 b9,11,b13	Maj7 +9,+11,b13			xxx b9,b11,b13	Maj7 Min+7 9,b11,b13	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Db

	Relative to:	Eb Jazz Min.	Db Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Eb	Relative Jazz Minor +13	#6	#1,#7	b7,b3,b6 b5,#1	Bb,Eb,Ab Gb,C#		xxx b9,b11,bb13	Min+7b5 b9,b11,b13	Min+7 9,11,+13		xxx b9,11,13	Maj7 Aug7 9,+11,13		xxx 9,+11,13		Dom7 +9,11,b13	
Eb	Relative Jazz Minor +5	#5	#1,#6	b3,b6,b5	Eb,Ab,Gb	Min+7b5 9,11,b13		Dom7b5/Dim7 Min7b5 b9,b11,13	xxx 9,11,13		Dim7 Min7 b9,+11,13	xxx 9,+11,13		Dim7 Dom7 +9,+11,13			Dom7 Dim7 b9,b11,bb13
Bb	Relative Harmonic Major Phrygian Dom7(b9,11,13)	#4	#1,#5	b7,b6,b5	Bb,Ab,Gb	Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13			Dim7 b9,11,b13	Maj7 9,11,b13	
Bb	Whole Tone	#1	#1,#2	b7,b3,b5	Bb,Eb,Gb	Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13		Dom7b5 Dom7 9,+11,b13	
Eb	Relative Dominant's Relative Dominant Major	#3	#1,#4	b7,b3,b6	Bb,Eb,Ab	Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13	
Eb	Relative Jazz Minor		#1	b7,b3,b6,b5	Bb,Eb,Ab,Gb	Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13	
Db	Major	b7		b7,b3,b6 b5,b2	Bb,Eb,Ab Gb,Db	Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13	
Eb	Relative SubDominant's Relative Harm Minor	b6	#1,b7	b7,b3,b6 b5,b1	Bb,Eb,Ab Gb,Cb			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13
Ab	Whole Tone	b2	#1,b3	b7,b3,b6 b5,b4	Bb,Eb,Ab Gb,Fb	Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13	
Eb	Relative Jazz Minor b5	b5	#1,b6	bb7,b3,b6,b5	Bbb,Eb,Ab,Gb	Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13	Dim7 Minb5+7 9,+11,b13		Dom7 b9,+11,13	Dim7 Aug7 +9,+11,13		
Eb	Relative Jazz Minor b11	b4	#1,b5	b7,b3,bb6,b5	Bb,Eb,Abb,Gb	Min7b5 9,11,b13		xxx b9,b11,b13	Maj7 Min+7 9,b11,13		xxx b9,11,13	Aug7 b9,+11,13	xxx +9,+11,+13			xxx 9,11,b13	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Db

	Relative to:	Ab Major	Db Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Ab	Relative Dominant Major +13	#6	#4,#3	b7,b3,b6 b2,#4	Bb,Eb,Ab Db,F#	Min7 b9,+11,b13	xxx		Dom7 +9,11,13			xxx	Min+7b5 b9,11,b13	Dom7 Maj7 9,11,+13		xxx	
Ab	Relative Dominant Major +9	#2	#4,#6	b3,b6,b2	Eb,Ab,Db	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx
F	Relative Dominant's Relative Harmonic Minor	#5	#4,#2	b7,b6,b2	Bb,Ab,Db	Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13	Aug7 9,11,13		Dim7 Min7 9,+11,13	
Bb	Relative Dominant's Relative Jazz Minor	#1	#4,#5	b7,b3,b2	Bb,Eb,Db	Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13	
Eb	Relative Dominant's Relative Dominant Major	#4	#4,#1	b7,b3,b6	Bb,Eb,Ab	Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13	
Ab	Relative Dominant Major		#4	b7,b3,b6,b2	Bb,Eb,Ab,Db	Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13	
Db	Major	b7		b7,b3,b6 b2,b5	Bb,Eb,Ab b2,b5	Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13	
Ab	Relative Dominant Jazz Minor	b3	#4,b7	b7,b3,b6 b2,b1	Bb,Eb,Ab Db,Cb		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13
Ab	Relative Dominant Harmonic Major	b6	#4,b3	b7,b3,b6 b2,b4	Bb,Eb,Ab Db,Fb	Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13	
Ab	Relative Dominant Major b9	b2	#4,b6	bb7,b3,b6,b2	Bbb,Eb,Ab,Db	Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13		
Ab	Relative Dominant Major b5	b5	#4,b2	b7,bb3,b6,b2	Bb,Ebb,Ab,Db	xxx	Maj7 b9,+11,13	xxx			Minbb7 9,11,b13		Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Db

	Relative to:	Db Major	Db Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B	
Db	Major +13	#6	#6	b3,b2,b6,b5	Eb,Db,Ab,Gb	Min+7b5 b9,11,b13	Dom7 Maj7 9,11,+13		xxx 9,11,13		Min7 b9,+11,b13	xxx		Dom7 +9,11,13			xxx	
Db	Major +9	#2	#2	b7,b2,b6,b5	Bb,Db,Ab,Gb	Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13			Min7 9,+11,b13	
Bb	Relative Harmonic Minor	#5	#5	b7,b3,b2,b5	Bb,Eb,Db,Gb	Dim7 Min7b5 b9,11,b13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13		Min+7 9,11,b13	
Eb	Relative Jazz Minor	#1	#1	b7,b3,b6,b5	Bb,Eb,Ab,Gb	Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13			Dom7 9,11,b13	
Ab	Relative Dominant Major	#4	#4	b7,b3,b2,b6	Bb,Eb,Db,Ab	Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13			Min7 9,11,13	
Db	Major			b7,b3,b2 b6,b5	Bb,Eb,Db Ab,Gb	Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13			Min7 9,11,b13	
Gb	Relative Sub-Dominant Major	b7	b7	b7,b3,b2 b6,b5,b1	Bb,Eb,Db Ab,Gb,Cb		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13			Min7 b9,11,b13	Maj7 9,+11,13
Db	Jazz Minor	b3	b3	b7,b3,b2 b6,b5,b4	Bb,Eb,Db Ab,Gb,Fb	Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13			Min7b5 9,11,b13	
Db	Harmonic Major	b6	b6	bb7,b3,b2 b6,b5	Bbb,Eb,Db Ab,Gb	Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			
Db	Major b9	b2	b2	b7,bb3,b2 b6,b5	Bb,Ebb,Db Ab,Gb	xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13			Min7 9,b11,b13	
Db	Major b5	b5	b5	b7,b3,b2 bb6,b5	Bb,Eb,Db Abb,Gb	Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13		xxx	Maj7 b9,+11,13	xxx				Minbb7 9,11,b13	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B	

Second Order Alterations: Db

	Relative to:	Gb Major	Db Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B	
Gb	Relative Sub-Dominant Maj+13	#6	b7,#2	b7,b6,b5 b2,b1	Bb,Ab,Gb Db,Cb		Dom7 +9,11,13			xxx b9,b11,bb13	Min+7b5 b9,11,b13	Maj7 9,11,+13		xxx 9,11,13		Min7 b9,+11,b13	xxx 9,+11,13	
Gb	Relative Sub-Dominant Maj+9	#2	b7,#5	b7,b3,b5 b2,b1	Bb,Eb,Gb Db,Cb		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx b9,b11,b13	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13	
Eb	Relative Harmonic Minor	#5	b7,#1	b7,b3,b6 b5,b1	Bb,Eb,Ab Gb,Cb			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13	
Ab	Relative Subdominant's Relative Jazz minor	#1	b7,#4	b7,b3,b6 b2,b1	Bb,Eb,Ab Db,Cb		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13	
Db	Major	#4		b7,b3,b6 b5,b2	Bb,Eb,Ab Gb,Db		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13	
Gb	Relative Sub-Dominant Major		b7	b7,b3,b6 b5,b2,b1	Bb,Eb,Ab Gb,Db,Cb		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13	
Cb	Relative Sub-Dominant's Relative Sub-Dominant Major	b7	b7,b3	b7,b3,b6,b5 b2,b1,b4	Bb,Eb,Ab,Gb Db,Cb,Fb		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13	
Gb	Relative Sub-Dominant Jazz Minor	b3	b7,b6	bb7,b3,b6 b5,b2,b1	Bbb,Eb,Ab Gb,Db,Cb		Dom7 9,11,b13			Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13	Dom7 9,+11,13	
Gb	Relative Sub-Dominant Harmonic Major	b6	b7,b2	b7,bb3,b6 b5,b2,b1	Bb,Ebb,Ab Gb,Db,Cb		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13				Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13
Gb	Relative Sub-Dominant Major b9	b2	b7,b5	b7,b3,bb6 b5,b2,b1	Bb,Eb,Abb Gb,Db,Cb		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13	
Gb	Relative Sub-Dominant Majb5	b5	b7,b1	b7,b3,b6 b5,bb2,b1	Bb,Eb,Ab Gb,Dbb,Cb		xxx +9,+11,+13			Minbb7 9,11,b13		Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13		xxx b9,11,b13	Maj7 b9,+11,13
							C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Db

	Relative to:	Db Jazz Min.	Db Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B	
Db	Jazz Minor +13	#6	b3, #6	b3,b6,b5 b2,b4	Eb,Ab,Gb Db,Fb	Min+7b5 b9,b11,b13	Min+7 9,11,+13		xxx b9,11,13	xxx 9,++11,13		xxx 9,+11,13		Dom7 +9,11,b13			xxx b9,b11,bb13	
Db	Jazz Minor +5	#5	b3, #5	b7,b3,b5 b2,b4	Bb,Eb,Gb ,Db,Fb	Dim7 Min7b5 b9,11,13	xxx 9,11,13		Dim7 Min7 b9,+11,13	xxx 9,+11,13		Dim7 Dom7 +9,+11,13			Dim7 b9,b11,bb13	xxx 9,11,b13		
Ab	Whole Tone	#1	b3, #1	b7,b3,b6 b5,b4	Bb,Eb,Ab Gb,Fb	Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7 9,+11,b13			Dom7b5 9,11,b13			
Ab	Relative Dominant Harmonic Major	#4	b3,#4	b7,b3,b6 b2,b4	Bb,Eb,Ab Db,Fb	Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13			Dim7 Min7b5 9,11,13	
Db	Major	#3		b7,b3,b6 b5,b2	Bb,Eb,Ab Gb,Db	Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13			Min7 9,11,b13	
Db	Jazz Minor		b3	b7,b3,b6 b5,b2,b4	Bb,Eb,Ab Gb,Db,Fb	Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13			Min7b5 9,11,b13	
Cb	Relative Sub-Dominant's Relative Sub-Dominant Major	b7	b3, b7	b7,b3,b6,b5 b2,b4,b1	Bb,Eb,Ab,Gb Db,Fb,Cb		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13			Min7b5 b9,11,b13	Maj7 9,11,13
Db	Harmonic Minor	b6	b3, b6	bb7,b3,b6 b5,b2,b4	Bbb,Eb,Ab Gb,Db,Fb	Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			
Gb	Whole Tone	b2	b3, b2	b7,bb3,b6 b5,b2,b4	Bb,Ebb,Ab Gb,Db,Fb	Dom7b5 xxx b9,b11,b13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13			Dom7b5 Min7b5 9,b11,b13	
Db	Jazz Minor b5	b5	b3, b5	b7,b3,bb6 b5,b2,b4	Bb,Eb,Abb Gb,Db,Fb	Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13	Dim7 xxx 9,+11,13		Dom7 b9,+11,13	Dim7 xxx +9,+11,13				Dim7 9,11,b13	
Db	Jazz Minor b11	b4	b3, b4	b7,b3,b6 bb5,b2,b4	Bb,Eb,Ab Gbb,Db,Fb	Min7bb5 b9,b11,b13	Maj7 Min+7 9,b11,13		xxx b9,11,13	Aug7 b9,+11,13	xxx +9,++11,+13			Maj6 9,11,b13			Min7b5 9,11,bb13	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B	

Second Order Alterations: Db

	Relative to:	Db Harm. Maj	Db Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Db	Harmonic Major +9	#2	b6, #2	bb7,b6,b5,b2	Bbb,Ab,Gb,Db	xxx b9,11,b13	Maj7 +9,11,b13			xxx b9,b11,b13	Min+7 b9,b11,b13	Min+7 9,+11,+13		Dom7+5 b9,11,13	Aug7 +9,+11,13		
Eb	Relative Jazz Minor b5	#1	b6, #1	bb7,b3,b6,b5	Bbb,Eb,Ab,Gb	Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13	Dim7 Minb5+7 9,+11,b13		Dom7 b9,+11,13	Dim7 Aug7 +9,+11,13		
Ab	Relative Dominant Major b9	#4	b6, #4	bb7,b3,b6,b2	Bbb,Eb,Ab,Db	Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13		
Db	Major	#6		b7,b3,b6 b5,b2	Bb,Eb,Ab Gb,Db	Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13	
Db	Harmonic Major		b6	bb7,b3,b6 b5,b2	Bbb,Eb,Ab Gb,Db	Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13		
Gb	Relative Sub-Dominant Jazz Minor	b7	b6, b7	bb7,b3,b6 b5,b2,b1	Bbb,Eb,Ab Gb,Db,Cb		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13
Eb	Harmonic Minor	b3	b6,b3	bb7,b3,b6 b5,b2,b4	Bbb,Eb,Ab Gb,Db,Fb	Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 b9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13		
Gb	Relative Sub-Dominant Double Harmonic Minor	b2	b6, b2	bb7,bb3,b6 b5,b2	Bbb,Ebb,Ab Gb,Db	xxx b9,11,b13	Maj7 b9,11,b13	Maj7 +9,+11,+13			Min6 b9,b11,b13	Min+7 9,+11,b13		Dom7b5 b9,11,13	Aug7 +9,11,+13		
Db	Harmonic Major b5	b5	b6, b5	bb7,b3,bb6 b5,b2	Bbb,Eb,Abb Gb,Db	Dim7 b9,11,bb13	Maj7b5 9,11,b13		Dom7b5/Dim7 Min7b5 9,b11,13		Dom7 xxx b9,b11,b13	Dim7 Min+7 b9,+11,13	xxx 9,+11,+13		Dim7 Dom7+5 +9,+11,+13		
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Ab

	Relative to:	F Harm Min	Ab Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Ab	Major +5+13	#1	#5,#6	b7,b2,b6,#4	Bb,Db,Ab,F#	Dom7 b9,+11,b13	xxx +9,+11,13			Dim7 9,b11,b13		Dom7b5 xxx b9,b11,bb13	Min+7b5 b9,11,13	Aug7 9,11,+13		xxx 9,+11,13	
F	Relative Double Harmonic Minor	#4	#5,#2	b2,b6	Db,Ab	Maj7 b9,11,b13	Maj7 +9,+11,+13			Minbb7 b9,b11,b13	Min+7 9,+11,b13		Dom7b5 b9,11,13	Aug7 +9,11,13			xxx b9,11,b13
F	Relative Harmonic Major	#3	#5,#1	b7,b2	Bb,Db	Dom7 b9,11,13	Dim7 Aug7 +9,+11,13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13	
F	Relative Dominant's Relative Jazz Minor	#6	#5,#4	b7,b6	Bb,Ab	Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13	
F	Relative Harmonic Minor		#5	b7,b2,b6	Bb,Db,Ab	Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13	
Ab	Major	b7		b7,b3,b2,b6	Bb,Eb,Db,Ab	Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13	
Db	Relative Subdominant Maj +9	b2	#5,b7	b7,b2,b6,b5	Bb,Db,Ab,Gb	Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx b9,b11,b13	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13	
Ab	Jazz Minor +5	b5	#5,b3	b7,b2,b6,b1	Bb,Db,Ab,Cb		Dim7 Dom7 +9,+11,13			Dim7 b9,b11,bb13	xxx 9,11,b13		Dim7 Min7b5 b9,11,13	xxx 9,11,13		Dim7 Min7 b9,+11,13	xxx 9,+11,13
Ab	Major b9+5	b4	#5,b2	bb7,b2,b6	Bbb,Db,Ab	Maj6 b9,11,b13	Maj7 +9,+11,b13			xxx b9,b11,b13	Maj7 Min+7 9,b11,b13		Min7b5 b9,11,13	Aug7 b9,11,13	Dom7 Aug7 +9,+11,+13		
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Ab

	Relative to:	Bb Jazz Min.	Ab Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Bb	Relative Jazz Minor +13	#6	#1,#7	b7,b3,b2,#5	Bb,Eb,Db,G#	xxx b9,11,13	Maj7 Aug7 9,++11,13		xxx 9,+11,13		Dom7 +9,11,b13			xxx b9,b11,bb13	Min+7b5 b9,b11,b13	Min+7 9,11,+13	
Bb	Relative Jazz Minor +5	#5	#1,#6	b7,b3,b2,#4	Bb,Eb,Db,F#	Dim7 Min7 b9,+11,13	xxx 9,+11,13		Dim7 Dom7 +9,+11,13			Dom7 Dim7 b9,b11,bb13	Min+7b5 9,11,b13		Dom7b5/Dim7 Min7b5 b9,b11,13	xxx 9,11,13	
F	Relative Harmonic Major Phrygian Dom7(b9,11,13)	#4	#1,#5	b3,b2	Eb,Db	Dom7 b9,11,13	Dim7 Aug7 +9,+11,13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13	
F	Whole Tone	#1	#1,#2	b7,b2	Bb,Db	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13
Bb	Relative Dominant's Relative Dominant Major	#3	#1,#4	b7,b3	Bb,Eb	Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13	
Bb	Relative Jazz Minor		#1	b7,b3,b2	Bb,Eb,Db	Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13	
Ab	Major	b7		b7,b3,b2,b6	Bb,Eb,Db,Ab	Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13	
Bb	Relative SubDominant's Relative Harm Minor	b6	#1,b7	b7,b3,b2,b5	Bb,Eb,Db,Gb	Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13	
Eb	Whole Tone	b2	#1,b3	b7,b3,b2,b1	Bb,Eb,Db,Cb		Dom7b5 Dom7+5 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13
Bb	Relative Jazz Minor b5	b5	#1,b6	b7,b3,b2,4	Bb,Eb,Db,Fb	Dom7 Min7 b9,b11,13	Dim7 Minb5+7 9,+11,b13		Dom7 b9,+11,13	Dim7 Aug7 +9,+11,13			Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13	
Bb	Relative Jazz Minor b11	b4	#1,b5	b7,bb3,b2	Bb,Ebb,Db	xxx b9,11,13	Aug7 b9,+11,13	xxx +9,++11,+13			xxx 9,11,b13		Min7b5 9,11,b13		xxx b9,b11,b13	Maj7 Min+7 9,b11,13	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Ab

	Relative to:	Eb Major	Ab Major	C Major	C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Eb	Relative Dominant Major +13	#6	#4,#3	b7,b3,b6,#1	Bb,Eb,Ab,C#	xxx	Min+7b5 b9,11,b13	Dom7 Maj7 9,11,+13		xxx		Min7 b9,+11,b13	xxx		Dom7 +9,11,13	
Eb	Relative Dominant Major +9	#2	#4,#6	b7,b3,b6,#4	Bb,Eb,Ab,F#	Min7 9,+11,b13	Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13	
C	Relative Dominant's Relative Harmonic Minor	#5	#4,#2	b3,b6	Eb,Ab	Min+7 9,11,b13	Dim7 Min7b5 b9,11,b13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13
F	Relative Dominant's Relative Jazz Minor	#1	#4,#5	b7,b6	Bb,Ab	Dom7 9,11,b13	Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13	
Bb	Relative Dominant's Relative Dominant Major	#4	#4,#1	b7,b3	Bb,Eb	Min7 9,11,13	Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13	
Eb	Relative Dominant Major		#4	b7,b3,b6	Bb,Eb,Ab	Min7 9,11,b13	Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13	
Ab	Major	b7		b7,b3,b6,b2	Bb,Eb,Ab,Db	Min7 b9,11,b13	Maj7 9,+11,13			Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13	
Eb	Relative Dominant Jazz Minor	b3	#4,b7	b7,b3,b6,b5	Bb,Eb,Ab,Gb	Min7b5 9,11,b13	Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13	
Eb	Relative Dominant Harmonic Major	b6	#4,b3	b7,b3,b6,b1	Bb,Eb,Ab,Cb		Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13
Eb	Relative Dominant Major b9	b2	#4,b6	b7,b3,b6,b4	Bb,Eb,Ab,Fb	Min7 9,b11,b13	xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13	
Eb	Relative Dominant Major b5	b5	#4,b2	bb7,b3,b6	Bbb,Eb,Ab	Minbb7 9,11,b13	Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13		xxx	Maj7 b9,+11,13	xxx		

C C#/Db D D#/Eb E F F#/Gb G G#/Ab A A#/Bb B

Second Order Alterations: Ab

	Relative to:	Ab Major	Ab Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Ab	Major +13	#6	#6	b7,b3,b6 b2,#4	Bb,Eb,Ab Db,F#	Min7 b9,+11,b13	xxx		Dom7 +9,+11,13			xxx	Min+7b5 b9,11,b13	Dom7 Maj7 9,+11,+13		xxx 9,11,13	
Ab	Major +9	#2	#2	b3,b6,b2	Eb,Ab,Db	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,+11,13			xxx
F	Relative Harmonic Minor	#5	#5	b7,b6,b2	Bb,Ab,Db	Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13	Aug7 9,11,13		Dim7 Min7 9,+11,13	
Bb	Relative Jazz Minor	#1	#1	b7,b3,b2	Bb,Eb,Db	Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13	
Eb	Relative Dominant Major	#4	#4	b7,b3,b6	Bb,Eb,Ab	Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13	
Ab	Major			b7,b3,b6,b2	Bb,Eb,Ab,Db	Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13	
Db	Relative Sub-Dominant Major	b7	b7	b7,b3,b6 b2,b5	Bb,Eb,Ab b2,b5	Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13	
Ab	Jazz Minor	b3	b3	b7,b3,b6 b2,b1	Bb,Eb,Ab Db,Cb		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13
Ab	Harmonic Major	b6	b6	b7,b3,b6 b2,b4	Bb,Eb,Ab Db,Fb	Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13	
Ab	Major b9	b2	b2	bb7,b3,b6,b2	Bbb,Eb,Ab,Db	Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13		
Ab	Major b5	b5	b5	b7,bb3,b6,b2	Bb,Ebb,Ab,Db	xxx	Maj7 b9,+11,13	xxx			Minbb7 9,11,b13		Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Ab

	Relative to:	Db Major	Ab Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Db	Relative Sub-Dominant Maj+13	#6	b7,#2	b3,b2,b6,b5	Eb,Db,Ab,Gb	Min+7b5 b9,11,b13	Maj7 9,11,+13		xxx 9,11,13		Min7 b9,+11,b13	xxx 9,+11,13		Dom7 +9,11,13			xxx b9,b11,bb13
Db	Relative Sub-Dominant Maj+9	#2	b7,#5	b7,b2,b6,b5	Bb,Db,Ab,Gb	Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx b9,b11,b13	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13	
Bb	Relative Harmonic Minor	#5	b7,#1	b7,b3,b2,b5	Bb,Eb,Db,Gb	Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13	
Eb	Relative Subdominant's Relative Jazz minor	#1	b7,#4	b7,b3,b6,b5	Bb,Eb,Ab,Gb	Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13	
Ab	Major	#4		b7,b3,b2,b6	Bb,Eb,Db,Ab	Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13	
Db	Relative Sub-Dominant Major		b7	b7,b3,b2 b6,b5	Bb,Eb,Db Ab,Gb	Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13	
Gb	Relative Sub-Dominant's Relative Sub-Dominant Major	b7	b7,b3	b7,b3,b2 b6,b5,b1	Bb,Eb,Db Ab,Gb,Cb		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13
Db	Relative Sub-Dominant Jazz Minor	b3	b7,b6	b7,b3,b2 b6,b5,b4	Bb,Eb,Db Ab,Gb,Fb	Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13	
Db	Relative Sub-Dominant Harmonic Major	b6	b7,b2	bb7,b3,b2 b6,b5	Bbb,Eb,Db Ab,Gb	Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13		
Db	Relative Sub-Dominant Major b9	b2	b7,b5	b7,bb3,b2 b6,b5	Bb,Ebb,Db Ab,Gb	xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13	
Db	Relative Sub-Dominant Majb5	b5	b7,b1	b7,b3,b2 bb6,b5	Bb,Eb,Db Abb,Gb	Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13		xxx b9,11,b13	Maj7 b9,+11,13	xxx +9,+11,+13			Minbb7 9,11,b13	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Ab

	Relative to:	Ab Jazz Min.	Ab Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Ab	Jazz Minor +13	#6	b3, #6	b7,b3,b2 b6,b1,#4	Bb,Eb,Db Ab,Cb,F#		xxx 9,+11,13		Dom7 +9,+11,b13			xxx b9,b11,bb13	Min+7b5 b9,b11,b13	Min+7 9,11,+13		xxx b9,11,13	xxx 9,++11,13
Ab	Jazz Minor +5	#5	b3, #5	b7,b2,b6,b1	Bb,Db,Ab,Cb		Dim7 Dom7 +9,+11,13			Dim7 b9,b11,bb13	xxx 9,11,b13		Dim7 Min7b5 b9,11,13	xxx 9,11,13		Dim7 Min7 b9,+11,13	xxx 9,+11,13
Eb	Whole Tone	#1	b3, #1	b7,b3,b2,b1	Bb,Eb,Db,Cb		Dom7b5 Dom7 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13
Eb	Relative Dominant Harmonic Major	#4	b3,#4	b7,b3,b6,b1	Bb,Eb,Ab,Cb			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13
Ab	Major	#3		b7,b3,b2,b6	Bb,Eb,Db,Ab	Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13	
Ab	Jazz Minor		b3	b7,b3,b2 b6,b1	Bb,Eb,Db Ab,Cb		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13
Gb	Relative Sub-Dominant's Relative Sub-Dominant Major	b7	b3, b7	b7,b3,b2 b6,b1,b5	Bb,Eb,Db Ab,Cb,Gb		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13
Ab	Harmonic Minor	b6	b3, b6	b7,b3,b2 b6,b1,b4	Bb,Eb,Db Ab,Cb,Fb		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13
Db	Whole Tone	b2	b3, b2	bb7,b3,b2 b6,b1	Bbb,Eb,Db Ab,Cb		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,b13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13
Ab	Jazz Minor b5	b5	b3, b5	b7,bb3,b2 b6,b1	Bb,Ebb,Db Ab,Cb		Dom7 b9,+11,13	Dim7 xxx +9,+11,13			Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13	Dim7 xxx 9,+11,13
Ab	Jazz Minor b11	b4	b3, b4	b7,b3,bb2 b6,b1	Bb,Eb,Dbb Ab,Cb	xxx +9,++11,+13			Maj6 9,11,b13		Min7b5 9,11,bb13		Min7bb5 b9,b11,b13	Maj7 Min+7 9,b11,13		xxx b9,11,13	Aug7 b9,+11,13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Ab

	Relative to:	Ab Harm. Maj	Ab Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Ab	Harmonic Major +9	#2	b6, #2	b3,b2,b6,b4	Eb,Db,Ab,Fb	Min+7 b9,b11,b13	Min+7 9,+11,+13		Dom7+5 b9,11,13	Aug7 +9,+11,13			xxx b9,11,b13	Maj7 +9,11,b13			xxx b9,b11,b13
Bb	Relative Jazz Minor b5	#1	b6, #1	b7,b3,b2,b4	Bb,Eb,Db,Fb	Dom7 Min7 b9,b11,13	Dim7 Minb5+7 9,+11,b13		Dom7 b9,+11,13	Dim7 Aug7 +9,+11,13			Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13	
Eb	Relative Dominant Major b9	#4	b6, #4	b7,b3,b6,b4	Bb,Eb,Ab,Fb	Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13	
Ab	Major	#6		b7,b3,b2,b6	Bb,Eb,Db,Ab	Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13	
Ab	Harmonic Major		b6	b7,b3,b2 b6,b4	Bb,Eb,Db Ab,Fb	Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13	
Db	Relative Sub-Dominant Jazz Minor	b7	b6, b7	b7,b3,b2 b6,b4,b5	Bb,Eb,Db Ab,Fb,Gb	Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13	
Bb	Harmonic Minor	b3	b6,b3	b7,b3,b2 b6,b4,b1	Bb,Eb,Db Ab,Fb,Cb		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13
Db	Relative Sub-Dominant Double Harmonic Minor	b2	b6, b2	bb7,b3,b2 b6,b4	Bbb,Eb,Db Ab,Fb	Min6 b9,b11,b13	Min+7 9,+11,b13		Dom7b5 b9,11,13	Aug7 +9,11,+13			xxx b9,11,b13	Maj7 b9,11,b13	Maj7 +9,+11,+13		
Ab	Harmonic Major b5	b5	b6, b5	b7,bb3,b2 b6,b4	Bb,Ebb,Db Ab,Fb	Dom7 xxx b9,b11,b13	Dim7 Min+7 b9,+11,13	xxx 9,+11,+13		Dim7 Dom7+5 +9,+11,+13			Dim7 b9,11,bb13	Maj7b5 9,11,b13		Dom7b5/Dim7 Min7b5 9,b11,13	

Second Order Alterations: Eb

	Relative to:	C Harm Min	Eb Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Eb	Major +5+13	#1	#5,#6	b3,b6,#1	Eb,Ab,C#		Dom7b5 xxx b9,b11,bb13	Min+7b5 b9,11,13	Aug7 9,11,+13		xxx 9,+11,13		Dom7 b9,+11,b13	xxx +9,+11,13			Dim7 9,b11,b13
C	Relative Double Harmonic Minor	#4	#5,#2	b3,b6,#4	Eb,Ab,F#	Min+7 9,+11,b13		Dom7b5 b9,11,13	Aug7 +9,11,13			xxx b9,11,b13	Maj7 b9,11,b13	Maj7 +9,+11,+13			Minbb7 b9,b11,b13
C	Relative Harmonic Major	#3	#5,#1	b6	Ab	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13			Dim7 b9,11,b13
C	Relative Dominant's Relative Jazz Minor	#6	#5,#4	b3	Eb	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13
c	Relative Harmonic Minor		#5	b3,b6	Eb,Ab	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13
Eb	Major	b7		b7,b3,b6	Bb,Eb,Ab	Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13	
Ab	Relative Subdominant Maj +9	b2	#5,b7	b3,b6,b2	Eb,Ab,Db	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx b9,b11,b13
Eb	Jazz Minor +5	b5	#5,b3	b3,b6,b5	Eb,Ab,Gb	xxx 9,11,b13		Dim7 Min7b5 b9,11,13	xxx 9,11,13		Dim7 Min7 b9,+11,13	xxx 9,+11,13		Dim7 Dom7 +9,+11,13			Dim7 b9,b11,bb13
Eb	Major b9+5	b4	#5,b2	b3,b6,b4	Eb,Ab,Fb	Maj7 Min+7 9,b11,b13		Min7b5 b9,11,13	Aug7 b9,11,13	Dom7 Aug7 +9,++11,+13			Maj6 b9,11,b13	Maj7 +9,+11,b13			xxx b9,b11,b13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Eb

	Relative to:	F Jazz Min.	Eb Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
F	Relative Jazz Minor +13	#6	#1,#7	b7,b6,#2	Bb,Ab,D#	Dom7 +9,11,b13			xxx b9,b11,bb13	Min+7b5 b9,b11,b13	Min+7 9,11,+13		xxx b9,11,13	Maj7 Aug7 9,++11,13		xxx 9,+11,13	
F	Relative Jazz Minor +5	#5	#1,#6	b7,b6,#1	Bb,Ab,C#		Dom7 Dim7 b9,b11,bb13	Min+7b5 9,11,b13		Dom7b5/Dim7 Min7b5 b9,b11,13	xxx 9,11,13		Dim7 Min7 b9,+11,13	xxx 9,+11,13		Dim7 Dom7 +9,+11,13	
C	Relative Harmonic Major	#4	#1,#5	b7,b6,#4	Bb,Ab,F#	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13			Dim7 b9,11,b13
C	Whole Tone	#1	#1,#2	b6	Ab	Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13	
F	Relative Dominant's Relative Dominant Major	#3	#1,#4	b7	Bb	Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13	
F	Relative Jazz Minor		#1	b7,b6	Bb,Ab	Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13	
Eb	Major	b7		b7,b6,b3	Bb,Ab,Eb	Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13	
F	Relative SubDominant's Relative Harm Minor	b6	#1,b7	b7,b6,b2	Bb,Ab,Db	Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13	
Bb	Whole Tone	b2	#1,b3	b7,b6,b5	Bb,Ab,Gb	Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 9,+11,+13		Dom7b5 Dom7+5 9,+11,13		Dom7b5 Dom7 9,+11,b13	
F	Relative Jazz Minor b5	b5	#1,b6	b7,b6,b1	Bb,Ab,Cb			Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13	Dim7 Minb5+7 9,+11,b13		Dom7 b9,+11,13	Dim7 Aug7 +9,+11,13
F	Relative Jazz Minor b11	b4	#1,b5	bb7,b6	Bbb,Ab	xxx 9,11,b13		Min7b5 9,11,b13		xxx b9,b11,b13	Maj7 Min+7 9,b11,13		xxx b9,11,13	Aug7 b9,+11,13	xxx +9,++11,+13		
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Eb

	Relative to:	Bb Major	Eb Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Bb	Relative Dominant Major +13	#6	#4,#3	b7,b3,#5	Bb,Eb,G#	xxx		Min7 b9,+11,b13	xxx		Dom7 +9,11,13			xxx	Min+7b5 b9,11,b13	Dom7 Maj7 9,11,+13	
Bb	Relative Dominant Major +9	#2	#4,#6	b7,b3,#1	Bb,Eb,C#		xxx	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13	
G	Relative Dominant's Relative Harmonic Minor	#5	#4,#2	b7,b3,#4	Bb,Eb,F#	Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13	Aug7 9,11,13	
C	Relative Dominant's Relative Jazz Minor	#1	#4,#5	b3	Eb	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13
F	Relative Dominant's Relative Dominant Major	#4	#4,#1	b7	Bb	Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13	
Bb	Relative Dominant Major		#4	b7,b3	Bb,Eb	Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13	
Eb	Major	b7		b7,b3,b6	Bb,Eb,Ab	Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13	
Bb	Relative Dominant Jazz Minor	b3	#4,b7	b7,b3,b2	Bb,Eb,Db	Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 b9,b11,b13	Min+7 9,11,13	
Bb	Relative Dominant Harmonic Major	b6	#4,b3	b7,b3,b5	Bb,Eb,Gb	Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13	
Bb	Relative Dominant Major b9	b2	#4,b6	b7,b3,b1	Bb,Eb,Cb			Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13
Bb	Relative Dominant Major b5	b5	#4,b2	b7,b3,b4	Bb,Eb,Fb	Min7 9,b11,13		xxx	Maj7 b9,+11,13	xxx			Minbb7 9,11,b13		Min7b5 b9,11,bb13	Maj7b5 9,11,13	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Eb

	Relative to:	Eb Major	Eb Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Eb	Major +13	#6	#6	b7,b3,b6,#1	Bb,Eb,Ab,C#		xxx	Min+7b5 b9,11,b13	Dom7 Maj7 9,11,+13		xxx 9,11,13		Min7 b9,+11,b13	xxx		Dom7 +9,11,13	
Eb	Major +9	#2	#2	b7,b3,b6,#4	Bb,Eb,Ab,F#	Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13	
C	Relative Harmonic Minor	#5	#5	b3,b6	Eb,Ab	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13
F	Relative Jazz Minor	#1	#1	b7,b6	Bb,Ab	Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13	
Bb	Relative Dominant Major	#4	#4	b7,b3	Bb,Eb	Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13	
Eb	Major			b7,b3,b6	Bb,Eb,Ab	Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13	
Ab	Relative Sub-Dominant Major	b7	b7	b7,b3,b6,b2	Bb,Eb,Ab,Db	Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13	
Eb	Jazz Minor	b3	b3	b7,b3,b6,b5	Bb,Eb,Ab,Gb	Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13	
Eb	Harmonic Major	b6	b6	b7,b3,b6,b1	Bb,Eb,Ab,Cb			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13
Eb	Major b9	b2	b2	b7,b3,b6,b4	Bb,Eb,Ab,Fb	Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13	
Eb	Major b5	b5	b5	bb7,b3,b6	Bbb,Eb,Ab	Minbb7 9,11,b13		Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13		xxx	Maj7 b9,+11,13	xxx		
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Eb

	Relative to:	Ab Major	Eb Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Ab	Relative Sub-Dominant Maj+13	#6	b7,#2	b7,b3,b6 b2,#4	Bb,Eb,Ab Db,F#	Min7 b9,+11,b13	xxx 9,+11,13		Dom7 +9,11,13			xxx b9,b11,bb13	Min+7b5 b9,11,b13	Maj7 9,11,+13		xxx 9,11,13	
Ab	Relative Sub-Dominant Maj+9	#2	b7,#5	b3,b6,b2	Eb,Ab,Db	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx b9,b11,b13
F	Relative Harmonic Minor	#5	b7,#1	b7,b6,b2	Bb,Ab,Db	Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13	
Bb	Relative Subdominant's Relative Jazz minor	#1	b7,#4	b7,b3,b2	Bb,Eb,Db	Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13	
Eb	Major	#4		b7,b3,b6	Bb,Eb,Ab	Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13	
Ab	Relative Sub-Dominant Major		b7	b7,b3,b6,b2	Bb,Eb,Ab,Db	Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13	
Db	Relative Sub-Dominant's Relative Sub-Dominant Major	b7	b7,b3	b7,b3,b6 b2,b5	Bb,Eb,Ab b2,b5	Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13	
Ab	Relative Sub-Dominant Jazz Minor	b3	b7,b6	b7,b3,b6 b2,b1	Bb,Eb,Ab Db,Cb		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13
Ab	Relative Sub-Dominant Harmonic Major	b6	b7,b2	b7,b3,b6 b2,b4	Bb,Eb,Ab Db,Fb	Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13	
Ab	Relative Sub-Dominant Major b9	b2	b7,b5	bb7,b3,b6,b2	Bbb,Eb,Ab,Db	Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13		
Ab	Relative Sub-Dominant Majb5	b5	b7,b1	b7,bb3,b6,b2	Bb,Ebb,Ab,Db	xxx b9,11,b13	Maj7 b9,+11,13	xxx +9,+11,+13			Minbb7 9,11,b13		Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Eb

	Relative to:	Eb Jazz Min.	Eb Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Eb	Jazz Minor +13	#6	b3, #6	b7,b3,b6 b5,#1	Bb,Eb,Ab Gb,C#		xxx b9,b11,bb13	Min+7b5 b9,b11,b13	Min+7 9,11,+13		xxx b9,11,13	xxx 9,+11,13		xxx 9,+11,13		Dom7 +9,11,b13	
Eb	Jazz Minor +5	#5	b3, #5	b3,b6,b5	Eb,Ab,Gb	xxx 9,11,b13		Dim7 Min7b5 b9,11,13	xxx 9,11,13		Dim7 Min7 b9,+11,13	xxx 9,+11,13		Dim7 Dom7 +9,+11,13			Dim7 b9,b11,bb13
Bb	Whole Tone	#1	b3, #1	b7,b6,b5	Bb,Ab,Gb	Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 9,+11,13		Dom7b5 Dom7 9,+11,b13	
Bb	Relative Dominant Harmonic Major	#4	b3,#4	b7,b3,b5	Bb,Eb,Gb	Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13	
Eb	Major	#3		b7,b3,b6	Bb,Eb,Ab	Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13	
Eb	Jazz Minor		b3	b7,b3,b6,b5	Bb,Eb,Ab,Gb	Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13	
Db	Relative Sub-Dominant's Relative Sub-Dominant Major	b7	b3, b7	b7,b3,b6 b5,b2	Bb,Eb,Ab Gb,Db	Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13	
Eb	Harmonic Minor	b6	b3, b6	b7,b3,b6 b5,b1	Bb,Eb,Ab Gb,Cb			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13
Ab	Whole Tone	b2	b3, b2	b7,b3,b6 b5,b4	Bb,Eb,Ab Gb,Fb	Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,b13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13	
Eb	Jazz Minor b5	b5	b3, b5	bb7,b3,b6,b5	Bbb,Eb,Ab,Gb	Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13	Dim7 xxx 9,+11,13		Dom7 b9,+11,13	Dim7 xxx +9,+11,13		
Eb	Jazz Minor b11	b4	b3, b4	b7,b3,bb6,b5	Bb,Eb,Abb,Gb	Min7b5 9,11,bb13		Min7bb5 b9,b11,b13	Maj7 Min+7 9,b11,13		xxx b9,11,13	Aug7 b9,+11,13	xxx +9,+11,+13			Maj6 9,11,b13	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Eb

	Relative to:	Eb Harm. Maj	Eb Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Eb	Harmonic Major +9	#2	b6, #2	b7,b3,b6 b1,#4	Bb,Eb,Ab Cb,F#			xxx b9,11,b13	Maj7 +9,11,b13			xxx b9,b11,b13	Min+7 b9,b11,b13	Min+7 9,+11,+13		Dom7+5 b9,11,13	Aug7 +9,+11,13
F	Relative Jazz Minor b5	#1	b6, #1	b7,b6,b1	Bb,Ab,Cb			Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13	Dim7 Minb5+7 9,+11,b13		Dom7 b9,+11,13	Dim7 Aug7 +9,+11,13
Bb	Relative Dominant Major b9	#4	b6, #4	b7,b3,b1	Bb,Eb,Cb			Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13
Eb	Major	#6		b7,b3,b6	Bb,Eb,Ab	Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13	
Eb	Harmonic Major		b6	b7,b3,b6,b1	Bb,Eb,Ab,Cb			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Aug7 +9,+11,+13
Ab	Relative Sub-Dominant Jazz Minor	b7	b6, b7	b7,b3,b6 b1,b2	Bb,Eb,Ab Cb,Db		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13
F	Harmonic Minor	b3	b6,b3	b7,b3,b6 b1,b5	Bb,Eb,Ab Cb,Gb			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13
Ab	Relative Sub-Dominant Double Harmonic Minor	b2	b6, b2	b7,b3,b6 b1,b4	Bb,Eb,Ab Cb,Fb			xxx b9,11,b13	Maj7 b9,11,b13	Maj7 +9,+11,+13			Min6 b9,b11,b13	Min+7 9,+11,b13		Dom7b5 b9,11,13	Aug7 +9,11,+13
Eb	Harmonic Major b5	b5	b6, b5	bb7,b3,b6,b1	Bbb,Eb,Ab,Cb			Dim7 b9,11,bb13	Maj7b5 9,11,b13		Dom7b5/Dim7 Min7b5 9,b11,13		Dom7 xxx b9,b11,b13	Dim7 Min+7 b9,+11,13	xxx 9,+11,+13		Dim7 Dom7+5 +9,+11,+13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Bb

		Relative to:	G Harm Min	Bb Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Bb	Major +5+13	#1	#5,#6	b7,b3,#4,#5	Bb,Eb,F#,G#		xxx 9,+11,13		Dom7 b9,+11,b13	xxx +9,+11,13			Dim7 9,b11,b13		Dom7b5 xxx b9,b11,bb13	Min+7b5 b9,11,13	Aug7 9,11,+13	
G	Relative Double Harmonic Minor	#4	#5,#2	b7,b3,#4,#1	Bb,Eb,F#,C#			xxx b9,11,b13	Maj7 b9,11,b13	Maj7 +9,+11,+13			Minbb7 b9,b11,b13	Min+7 9,+11,b13		Dom7b5 b9,11,13	Aug7 +9,11,13	
G	Relative Harmonic Major	#3	#5,#1	b3,#4	Eb,F#		Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13
G	Relative Dominant's Relative Jazz Minor	#6	#5,#4	b7,#4	Bb,F#		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13	
G	Relative Harmonic Minor		#5	b7,b3,#4	Bb,Eb,F#		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13	
Bb	Major	b7		b7,b3	Bb,Eb		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13	
Eb	Relative Subdominant Maj +9	b2	#5,b7	b7,b3,#4,b6	Bb,Eb,F#,Ab		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx b9,b11,b13	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13	
Bb	Jazz Minor +5	b5	#5,b3	b7,b3,#4,b2	Bb,Eb,F#,Db		Dim7 Min7 b9,+11,13	xxx 9,+11,13		Dim7 Dom7 +9,+11,13			Dim7 b9,b11,bb13	xxx 9,11,b13		Dim7 Min7b5 b9,11,13	xxx 9,11,13	
Bb	Major b9+5	b4	#5,b2	b7,b3,#4,b1	Bb,Eb,F#,Cb				Maj6 b9,11,b13	Maj7 +9,+11,b13			xxx b9,b11,b13	Maj7 Min+7 9,b11,b13		Min7b5 b9,11,13	Aug7 b9,11,13	Dom7 Aug7 +9,+11,+13
							C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Bb

	Relative to:	C Jazz Min.	Bb Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
C	Relative Jazz Minor +13	#6	#1,#7	b3, #6	Eb,A#	Min+7 9,11,+13		xxx b9,11,13	Maj7 Aug7 9,++11,13		xxx 9,+11,13		Dom7 +9,11,b13			xxx b9,b11,bb13	Min+7b5 b9,b11,b13
C	Relative Jazz Minor +5	#5	#1,#6	b3, #5	Eb,G#	xxx 9,11,13		Dim7 Min7 b9,+11,13	xxx 9,+11,13		Dim7 Dom7 +9,+11,13		Dom7 Dim7 b9,b11,bb13		Min+7b5 9,11,b13		Dom7b5/Dim7 Min7b5 b9,b11,13
G	Relative Harmonic Major Phrygian Dom7(b9,11,13)	#4	#1,#5	b3, #1	Eb,C#	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13
G	Whole Tone	#1	#1,#2	b3,#4	Eb,F#		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13
C	Relative Dominant's Relative Dominant Major	#3	#1,#4			Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13
C	Relative Jazz Minor		#1	b3	Eb	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13
Bb	Major	b7		b3, b7	Eb,Bb	Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13	
C	Relative SubDominant's Relative Harm Minor	b6	#1,b7	b3, b6	Eb,Ab	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13
F	Whole Tone	b2	#1,b3	b3, b2	Eb,Db	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13
C	Relative Jazz Minor b5	b5	#1,b6	b3, b5	Eb,Gb	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13	Dim7 Minb5+7 9,+11,b13		Dom7 b9,+11,13	Dim7 Aug7 +9,+11,13			Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13
C	Relative Jazz Minor b11	b4	#1,b5	b3, b4	Eb,Fb	Maj7 Min+7 9,b11,13		xxx b9,11,13	Aug7 b9,+11,13	xxx +9,++11,+13			xxx 9,11,b13		Min7b5 9,11,b13		xxx b9,b11,b13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Bb

Relative to:		F Major	Bb Major	C Major	C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B	
F	Relative Dominant Major +13	#6	#4,#3	b7,#2	Bb,D#	Dom7 +9,11,13		xxx	Min+7b5 b9,11,b13	Dom7 Maj7 9,11,+13		xxx		Min7 b9,+11,b13	xxx		
F	Relative Dominant Major +9	#2	#4,#6	b7,#5	Bb,G#	Dom7+5 9,11,13	Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13		xxx		Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		
D	Relative Dominant's Relative Harmonic Minor	#5	#4,#2	b7,#1	Bb,C#		Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13	Aug7 9,11,13	Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13		
G	Relative Dominant's Relative Jazz Minor	#1	#4,#5	b7,#4	Bb,F#	Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13	
C	Relative Dominant's Relative Dominant Major	#4	#4,#1			Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13	Min7b5 b9,11,b13	
F	Relative Dominant Major		#4	b7	Bb	Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13	
Bb	Major	b7		b7,b3	Bb,Eb	Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13	
F	Relative Dominant Jazz Minor	b3	#4,b7	b7,b6	Bb,Ab	Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13	
F	Relative Dominant Harmonic Major	b6	#4,b3	b7,b2	Bb,Db	Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13	
F	Relative Dominant Major b9	b2	#4,b6	b7,b5	Bb,Gb	Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13	
F	Relative Dominant Major b5	b5	#4,b2	b7,b1	Bb,Cb			Minbb7 9,11,b13		Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13		xxx	Maj7 b9,+11,13	xxx
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Bb

		Relative to:															
		Bb Major	Bb Major	C Major	C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B	
Bb	Major +13	#6	#6	b7,b3,#5	Bb,Eb,G#	xxx 9,11,13		Min7 b9,+11,b13	xxx		Dom7 +9,11,13		xxx	Min+7b5 b9,11,b13	Dom7 Maj7 9,11,+13		
Bb	Major +9	#2	#2	b7,b3,#1	Bb,Eb,C#		xxx	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13	Dom7b5 b9,11,b13	Maj7 +9,11,13		
G	Relative Harmonic Minor	#5	#5	b7,b3,#4	Bb,Eb,F#	Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13	Dim7 Min7b5 b9,11,b13	Aug7 9,11,13		
C	Relative Jazz Minor	#1	#1	b3	Eb	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13	Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	
F	Relative Dominant Major	#4	#4	b7	Bb	Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13	Min7 b9,11,b13	Maj7 9,+11,13		
Bb	Major			b7,b3	Bb,Eb	Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13	Min7b5 b9,11,b13	Maj7 9,11,13		
Eb	Relative Sub-Dominant Major	b7	b7	b7,b3,b6	Bb,Eb,Ab	Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13	Dom7 9,11,13		
Bb	Jazz Minor	b3	b3	b7,b3,b2	Bb,Eb,Db	Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13	Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		
Bb	Harmonic Major	b6	b6	b7,b3,b5	Bb,Eb,Gb	Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13		Dim7 b9,11,b13	Maj7 9,11,b13		
Bb	Major b9	b2	b2	b7,b3,b1	Bb,Eb,Cb			Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13	xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13	
Bb	Major b5	b5	b5	b7,b3,b4	Bb,Eb,Fb	Min7 9,b11,13		xxx	Maj7 b9,+11,13	xxx			Minbb7 9,11,b13	Min7b5 b9,11,bb13	Maj7b5 9,11,13		
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Bb

	Relative to:	Eb Major	Bb Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Eb	Relative Sub-Dominant Maj+13	#6	b7,#2	b7,b3,b6,#1	Bb,Eb,Ab,C#		xxx b9,b11,bb13	Min+7b5 b9,11,b13	Maj7 9,11,+13		xxx 9,11,13		Min7 b9,+11,b13	xxx 9,+11,13		Dom7 +9,11,13	
Eb	Relative Sub-Dominant Maj+9	#2	b7,#5	b7,b3,b6,#4	Bb,Eb,Ab,F#	Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx b9,b11,b13	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13	
C	Relative Harmonic Minor	#5	b7,#1	b3,b6	Eb,Ab	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13
F	Relative Subdominant's Relative Jazz minor	#1	b7,#4	b7,b6	Bb,Ab	Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13	
Bb	Major	#4		b7,b3	Bb,Eb	Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13	
Eb	Relative Sub-Dominant Major		b7	b7,b3,b6	Bb,Eb,Ab	Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13	
Ab	Relative Sub-Dominant's Relative Sub-Dominant Major	b7	b7,b3	b7,b3,b6,b2	Bb,Eb,Ab,Db	Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13	
Eb	Relative Sub-Dominant Jazz Minor	b3	b7,b6	b7,b3,b6,b5	Bb,Eb,Ab,Gb	Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13	
Eb	Relative Sub-Dominant Harmonic Major	b6	b7,b2	b7,b3,b6,b1	Bb,Eb,Ab,Cb			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13
Eb	Relative Sub-Dominant Major b9	b2	b7,b5	b7,b3,b6,b4	Bb,Eb,Ab,Fb	Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13	
Eb	Relative Sub-Dominant Majb5	b5	b7,b1	bb7,b3,b6	Bbb,Eb,Ab	Minbb7 9,11,b13		Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13		xxx b9,11,b13	Maj7 b9,+11,13	xxx +9,+11,+13		
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Bb

	Relative to:	Bb Jazz Min.	Bb Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Bb	Jazz Minor +13	#6	b3, #6	b7,b3,b2,#5	Bb,Eb,Db,G#	xxx b9,11,13	xxx 9,++11,13		xxx 9,+11,13		Dom7 +9,11,b13			xxx b9,b11,bb13	Min+7b5 b9,b11,b13	Min+7 9,11,+13	
Bb	Jazz Minor +5	#5	b3, #5	b7,b3,b2,#4	Bb,Eb,Db,F#	Dim7 Min7 b9,+11,13	xxx 9,+11,13		Dim7 Dom7 +9,+11,13			Dim7 b9,b11,bb13	xxx 9,11,b13		Dim7 Min7b5 b9,11,13	xxx 9,11,13	
F	Whole Tone	#1	b3, #1	b3,b2	Eb,Db	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13
F	Relative Dominant Harmonic Major	#4	b3,#4	b7,b2	Bb,Db	Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13	
Bb	Major	#3		b7,b3	Bb,Eb	Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13	
Bb	Jazz Minor		b3	b7,b3,b2	Bb,Eb,Db	Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13	
Ab	Relative Sub-Dominant's Relative Sub-Dominant Major	b7	b3, b7	b7,b3,b2,b6	Bb,Eb,Db,Ab	Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13	
Bb	Harmonic Minor	b6	b3, b6	b7,b3,b2,b5	Bb,Eb,Db,Gb	Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13	
Eb	Whole Tone	b2	b3, b2	b7,b3,b2,b1	Bb,Eb,Db,Cb		Dom7b5 Dom7+5 9,+11,13		Dom7b5 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,b13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13
Bb	Jazz Minor b5	b5	b3, b5	b7,b3,b2,4	Bb,Eb,Db,Fb	Dom7 Min7 b9,b11,13	Dim7 xxx 9,+11,13		Dom7 b9,+11,13	Dim7 xxx +9,+11,13			Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13	
Bb	Jazz Minor b11	b4	b3, b4	b7,bb3,b2	Bb,Ebb,Db	xxx b9,11,13	Aug7 b9,+11,13	xxx +9,++11,+13			Maj6 9,11,b13		Min7b5 9,11,bb13		Min7bb5 b9,b11,b13	Maj7 Min+7 9,b11,13	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: Bb

	Relative to:	Bb Harm. Maj	Bb Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Bb	Harmonic Major +9	#2	b6, #2	b7,b3,b5,#1	Bb,Eb,Gb,C#		xxx b9,b11,b13	Min+7 b9,b11,b13	Min+7 9,+11,+13		Dom7+5 b9,11,13	Aug7 +9,+11,13			xxx b9,11,b13	Maj7 +9,11,b13	
C	Relative Jazz Minor b5	#1	b6, #1	b3,b5	Eb,Gb	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13	Dim7 Minb5+7 9,+11,b13		Dom7 b9,+11,13	Dim7 Aug7 +9,+11,13			Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13
F	Relative Dominant Major b9	#4	b6, #4	b7,b5	Bb,Gb	Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13	
Bb	Major	#6		b7,b3	Bb,Eb	Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13	
Bb	Harmonic Major		b6	b7,b3,b5	Bb,Eb,Gb	Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13	
Eb	Relative Sub-Dominant Jazz Minor	b7	b6, b7	b7,b3,b5,b6	Bb,Eb,Gb,Ab	Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13	
C	Harmonic Minor	b3	b6,b3	b7,b3,b5,b2	Bb,Eb,Gb,Db	Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13	
Eb	Relative Sub-Dominant Double Harmonic Minor	b2	b6, b2	b7,b3,b5,b1	Bb,Eb,Gb,Cb			Min6 b9,b11,b13	Min+7 9,+11,b13		Dom7b5 b9,11,13	Aug7 +9,11,+13			xxx b9,11,b13	Maj7 b9,11,b13	Maj7 +9,+11,+13
Bb	Harmonic Major b5	b5	b6, b5	b7,b3,b5,b4	Bb,Eb,Gb,Fb	Dom7b5/Dim7 Min7b5 9,b11,13		Dom7 xxx b9,b11,b13	Dim7 Min+7 b9,+11,13	xxx 9,+11,+13		Dim7 Dom7+5 +9,+11,+13			Dim7 b9,11,bb13	Maj7b5 9,11,b13	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: F

	Relative to:	D Harm Min	F Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
F	Major +5+13	#1	#5,#6	b7,#1,#2	Bb,C#,D#		Dim7 9,b11,b13		Dom7b5 xxx b9,b11,bb13	Min+7b5 b9,11,13	Aug7 9,11,+13		xxx 9,+11,13		Dom7 b9,+11,b13	xxx +9,+11,13	
D	Relative Double Harmonic Minor	#4	#5,#2	b7,#1,#5	Bb,C#,G#		Minbb7 b9,b11,b13	Min+7 9,+11,b13		Dom7b5 b9,11,13	Aug7 +9,11,13			xxx b9,11,b13	Maj7 b9,11,b13	Maj7 +9,+11,+13	
D	Relative Harmonic Major	#3	#5,#1	b7,#1,#4	Bb,C#,F#		Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13	
D	Relative Dominant's Relative Jazz Minor	#6	#5,#4	#1	C#		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13
D	Relative Harmonic Minor		#5	b7,#1	Bb,C#		Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13	
F	Major	b7		b7	Bb	Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13	
Bb	Relative Subdominant Maj +9	b2	#5,b7	b7,#1,b3	Bb,C#,Eb		xxx b9,b11,b13	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13	
F	Jazz Minor +5	b5	#5,b3	b7,#1,b6	Bb,C#,Ab		Dim7 b9,b11,bb13	xxx 9,11,b13		Dim7 Min7b5 b9,11,13	xxx 9,11,13		Dim7 Min7 b9,+11,13	xxx 9,+11,13		Dim7 Dom7 +9,+11,13	
F	Major b9+5	b4	#5,b2	b7,#1,b5	Bb,C#,Gb		xxx b9,b11,b13	Maj7 Min+7 9,b11,b13		Min7b5 b9,11,13	Aug7 b9,11,13	Dom7 Aug7 +9,++11,+13			Maj6 b9,11,b13	Maj7 +9,+11,b13	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: F

	Relative to:	G Jazz Min.	F Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
G	Relative Jazz Minor +13	#6	#1,#7	b7,#4,#3	Bb,F#,E#	xxx 9,+11,13		Dom7 +9,11,b13			xxx b9,b11,bb13	Min+7b5 b9,b11,b13	Min+7 9,11,+13		xxx b9,11,13	Maj7 Aug7 9,++11,+13	
G	Relative Jazz Minor +5	#5	#1,#6	b7,#4,#2	Bb,F#,D#	Dim7 Dom7 +9,+11,13			Dom7 Dim7 b9,b11,bb13			Dom7b5 Min7b5 b9,b11,13	xxx 9,11,13		Dim7 Min7 b9,+11,13	xxx 9,+11,13	
D	Relative Harmonic Major Phrygian Dom7(b9,11,13)	#4	#1,#5	b7,#4,#1	Bb,F#,C#		Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13	
D	Whole Tone	#1	#1,#2	b7,#4,#5	Bb,F#,G#	Dom7b5 Dom7+5 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13	
G	Relative Dominant's Relative Dominant Major	#3	#1,#4	#4	F#	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13
G	Relative Jazz Minor		#1	b7,#4	Bb,F#	Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13	
F	Major	b7		b7	Bb	Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13	
G	Relative SubDominant's Relative Harm Minor	b6	#1,b7	b7,#4,b3	Bb,F#,Eb	Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13	
C	Whole Tone	b2	#1,b3	b7,#4,b6	Bb,F#,Ab	Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13	
G	Relative Jazz Minor b5	b5	#1,b6	b7,#4,b2	Bb,F#,Db	Dom7 b9,+11,13	Dim7 Aug7 +9,+11,13			Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13	Dim7 Minb5+7 9,+11,b13	
G	Relative Jazz Minor b11	b4	#1,b5	b7,#4,b1	Bb,F#,Cb			xxx 9,11,b13		Min7b5 9,11,b13		xxx b9,b11,b13	Maj7 Min+7 9,b11,13		xxx b9,11,13	Aug7 b9,+11,13	xxx +9,++11,+13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: F

	Relative to:	C Major	F Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
C	Relative Dominant Major +13	#6	#4,#3	#6	A#	Dom7 Maj7 9,11,+13		xxx		Min7 b9,+11,b13	xxx		Dom7 +9,11,13		xxx		Min+7b5 b9,11,b13
C	Relative Dominant Major +9	#2	#4,#6	#2	D#	Maj7 +9,11,13			xxx	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13
A	Relative Dominant's Relative Harmonic Minor	#5	#4,#2	#5	G#	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13
D	Relative Dominant's Relative Jazz Minor	#1	#4,#5	#1	C#		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13
G	Relative Dominant's Relative Dominant Major	#4	#4,#1	#4	F#	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13
C	Relative Dominant Major		#4			Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13
F	Major	b7		b7	Bb	Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13	
C	Relative Dominant Jazz Minor	b3	#4,b7	b3	Eb	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 b9,b11,b13
C	Relative Dominant Harmonic Major	b6	#4,b3	b6	Ab	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13
C	Relative Dominant Major b9	b2	#4,b6	b2	Db	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13
C	Relative Dominant Major b5	b5	#4,b2	b5	Gb	Maj7b5 9,11,13		Min7 9,b11,13		xxx	Maj7 b9,+11,13	xxx			Minbb7 9,11,b13		Min7b5 b9,11,bb13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: F

	Relative to:	F Major	F Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
F	Major +13	#6	#6	b7,#2	Bb,D#	Dom7 +9,11,13			xxx	Min+7b5 b9,11,b13	Dom7 Maj7 9,11,+13		xxx 9,11,13		Min7 b9,+11,b13	xxx	
F	Major +9	#2	#2	b7,#5	Bb,G#	Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13	
D	Relative Harmonic Minor	#5	#5	b7,#1	Bb,C#		Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13	
G	Relative Jazz Minor	#1	#1	b7,#4	Bb,F#	Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13	
C	Relative Dominant Major	#4	#4			Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13
F	Major			b7	Bb	Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13	
Bb	Relative Sub-Dominant Major	b7	b7	b7,b3	Bb,Eb	Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13	
F	Jazz Minor	b3	b3	b7,b6	Bb,Ab	Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13	
F	Harmonic Major	b6	b6	b7,b2	Bb,Db	Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13	
F	Major b9	b2	b2	b7,b5	Bb,Gb	Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13	
F	Major b5	b5	b5	b7,b1	Bb,Cb			Minbb7 9,11,b13		Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13		xxx	Maj7 b9,+11,13	xxx
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: F

	Relative to:	Bb Major	F Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
Bb	Relative Sub-Dominant Maj+13	#6	b7,#2	b7,b3,#5	Bb,Eb,G#	xxx 9,11,13		Min7 b9,+11,b13	xxx 9,+11,13		Dom7 +9,11,13			xxx b9,b11,bb13	Min+7b5 b9,11,b13	Maj7 9,11,+13	
Bb	Relative Sub-Dominant Maj+9	#2	b7,#5	b7,b3,#1	Bb,Eb,C#		xxx b9,b11,b13	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13	
G	Relative Harmonic Minor	#5	b7,#1	b7,b3,#4	Bb,Eb,F#	Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13	
C	Relative Subdominant's Relative Jazz minor	#1	b7,#4	b3	Eb	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13
F	Major	#4		b7	Bb	Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13	
Bb	Relative Sub-Dominant Major		b7	b7,b3	Bb,Eb	Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13	
Eb	Relative Sub-Dominant's Relative Sub-Dominant Major	b7	b7,b3	b7,b3,b6	Bb,Eb,Ab	Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13	
Bb	Relative Sub-Dominant Jazz Minor	b3	b7,b6	b7,b3,b2	Bb,Eb,Db	Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13	
Bb	Relative Sub-Dominant Harmonic Major	b6	b7,b2	b7,b3,b5	Bb,Eb,Gb	Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13			Dim7 b9,11,b13	Maj7 9,11,b13	
Bb	Relative Sub-Dominant Major b9	b2	b7,b5	b7,b3,b1	Bb,Eb,Cb			Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13
Bb	Relative Sub-Dominant Majb5	b5	b7,b1	b7,b3,b4	Bb,Eb,Fb	Min7 9,b11,13		xxx b9,11,b13	Maj7 b9,+11,13	xxx +9,+11,+13			Minbb7 9,11,b13		Min7b5 b9,11,bb13	Maj7b5 9,11,13	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: F

	Relative to:	F Jazz Min.	F Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
F	Jazz Minor +13	#6	b3, #6	b7,b6,#2	Bb,Ab,D#	Dom7 +9,11,b13			xxx b9,b11,bb13	Min+7b5 b9,b11,b13	Min+7 9,11,+13		xxx b9,11,13	xxx 9,++11,13		xxx 9,+11,13	
F	Jazz Minor +5	#5	b3, #5	b7,b6,#1	Bb,Ab,C#		Dim7 b9,b11,bb13	xxx 9,11,b13		Dim7 Min7b5 b9,11,13	xxx 9,11,13		Dim7 Min7 b9,+11,13	xxx 9,+11,13		Dim7 Dom7 +9,+11,13	
C	Whole Tone	#1	b3, #1	b7,b6,#4	Bb,Ab,F#	Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 9,+11,13	
C	Relative Dominant Harmonic Major	#4	b3,#4	b6	Ab	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13
F	Major	#3		b7	Bb	Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13	
F	Jazz Minor		b3	b7,b6	Bb,Ab	Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13	
Eb	Relative Sub-Dominant's Relative Sub-Dominant Major	b7	b3, b7	b7,b6,b3	Bb,Ab,Eb	Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13	
F	Harmonic Minor	b6	b3, b6	b7,b6,b2	Bb,Ab,Db	Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13	
Bb	Whole Tone	b2	b3, b2	b7,b6,b5	Bb,Ab,Gb	Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,b13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13		Dom7b5 Dom7 9,+11,b13	
F	Jazz Minor b5	b5	b3, b5	b7,b6,b1	Bb,Ab,Cb			Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13	Dim7 xxx 9,+11,13		Dom7 b9,+11,13	Dim7 xxx +9,+11,13
F	Jazz Minor b11	b4	b3, b4	bb7,b6	Bbb,Ab	Maj6 9,11,b13		Min7b5 9,11,bb13		Min7bb5 b9,b11,b13	Maj7 Min+7 9,b11,13		xxx b9,11,13	Aug7 b9,+11,13	xxx +9,++11,+13		
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: F

	Relative to:	F Harm. Maj	F Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
F	Harmonic Major +9	#2	b6, #2	b7,b2,#5	Bb,Db,G#	Dom7+5 b9,11,13	Aug7 +9,++11,13			xxx b9,11,b13	Maj7 +9,11,b13			xxx b9,b11,b13	Min+7 b9,b11,b13	Min+7 9,+11,+13	
G	Relative Jazz Minor b5	#1	b6, #1	b7,b2,#4	Bb,Db,F#	Dom7 b9,+11,13	Dim7 Aug7 +9,+11,13			Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13	Dim7 Minb5+7 9,+11,b13	
C	Relative Dominant Major b9	#4	b6, #4	b2	Db	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13
F	Major	#6		b7	Bb	Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13	
F	Harmonic Major		b6	b7,b2	Bb,Db	Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13	
Bb	Relative Sub-Dominant Jazz Minor	b7	b6, b7	b7,b2,b3	Bb,Db,Eb	Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13	
F	Harmonic Minor	b3	b6,b3	b7,b2,b6	Bb,Db,Ab	Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13	
Bb	Relative Sub-Dominant Double Harmonic Minor	b2	b6, b2	b7,b2,b5	Bb,Db,Gb	Dom7b5 b9,11,13	Aug7 +9,11,+13			xxx b9,11,b13	Maj7 b9,11,b13	Maj7 +9,+11,+13			Min6 b9,b11,b13	Min+7 9,+11,b13	
F	Harmonic Major b5	b5	b6, b5	b7,b2,b1	Bb,Db,Cb		Dim7 Dom7+5 +9,+11,+13			Dim7 b9,11,bb13	Maj7b5 9,11,b13		Dom7b5/Dim7 Min7b5 9,b11,13		Dom7 xxx b9,b11,b13	Dim7 Min+7 b9,+11,13	xxx 9,+11,+13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second order Alterations: C

	Relative to:	A Harm Min	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
C	Major +5+13	#1	#5,#6	G#,A#	Aug7 9,11,+13		xxx 9,+11,13		Dom7 b9,+11,b13	xxx +9,+11,13			Dim7 9,b11,b13		Dom7b5 xxx b9,b11,bb13	Min+7b5 b9,11,13
A	Relative Double Harmonic Minor	#4	#5,#2	G#,D#	Aug7 +9,11,13			xxx b9,11,b13	Maj7 b9,11,b13	Maj7 +9,+11,+13			Minbb7 b9,b11,b13	Min+7 9,+11,b13		Dom7b5 b9,11,13
A	Relative Harmonic Major	#3	#5,#1	G#,C#		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13
A	Relative Dominant's Relative Jazz Minor	#6	#5,#4	G#,F#	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13
A	Relative Harmonic Minor		#5	G#	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13
C	Major	b7			Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13
F	Relative Subdominant Maj +9	b2	#5,b7	G#,Bb	Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx b9,b11,b13	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13	
C	Jazz Minor +5	b5	#5,b3	G#,Eb	xxx 9,11,13		Dim7 Min7 b9,+11,13	xxx 9,+11,13		Dim7 Dom7 +9,+11,13			Dim7 b9,b11,bb13	xxx 9,11,b13		Dim7 Min7b5 b9,11,13
C	Major b9+5	b4	#5,b2	G#,Db	Aug7 b9,11,13	Dom7 Aug7 +9,++11,+13			Maj6 b9,11,b13	Maj7 +9,+11,b13			xxx b9,b11,b13	Maj7 Min+7 9,b11,b13		Min7b5 b9,11,13
					C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second order Alterations: C

	Relative to:	D Jazz Min.	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
D	Relative Jazz Minor +13	#6	#1,#7	C#,B#	xxx b9,b11,bb13	Min+7b5 b9,b11,b13	Min+7 9,11,+13		xxx b9,11,13	Maj7 Aug7 9,++11,13		xxx 9,+11,13		Dom7 +9,11,b13		
D	Relative Jazz Minor +5	#5	#1,#6	C#,A#		Dom7b5/Dim7 Min7b5 b9,b11,13	xxx 9,11,13		Dim7 Min7 b9,+11,13	xxx 9,+11,13		Dim7 Dom7 +9,+11,13		Dom7 Dim7 b9,b11,bb13		Min+7b5 9,11,b13
A	Relative Harmonic Major	#4	#1,#5	C#,G#		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13
A	Whole Tone	#1	#1,#2	C#,D#		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13
D	Relative Dominant's Relative Dominant Major	#3	#1,#4	C#,F#		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13
D	Relative Jazz Minor		#1	C#		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13
C	Major	b7			Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13
D	Relative SubDominant's Relative Harm Minor	b6	#1,b7	C#,Bb		Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13	
G	Whole Tone	b2	#1,b3	C#,Eb		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13
D	Relative Jazz Minor b5	b5	#1,b6	C#,AB		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13	Dim7 Minb5+7 9,+11,b13		Dom7 b9,+11,13	Dim7 Aug7 +9,+11,13			Dim7 9,11,b13
D	Relative Jazz Minor b11	b4	#1,b5	C#,Gb		xxx b9,b11,b13	Maj7 Min+7 9,b11,13		xxx b9,11,13	Aug7 b9,+11,13	xxx +9,++11,+13			xxx 9,11,b13		Min7b5 9,11,b13
					C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second order Alterations: C

	Relative to:	G major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
G	Relative Dominant Major +13	#6	#4,#3	F#,E#	xxx		Dom7 +9,11,13			xxx	Min+7b5 b9,11,b13	Dom7 Maj7 9,11,+13		xxx		Min7 b9,+11,b13
G	Relative Dominant Major +9	#2	#4,#6	F#,A#	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13		xxx		Min+7 b9,11,b13
E	Relative Dominant's Relative Harmonic Minor	#5	#4,#2	F#,D#	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13
A	Relative Dominant's Relative Jazz Minor	#1	#4,#5	F#,G#	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13
D	Relative Dominant's Relative Dominant Major	#4	#4,#1	F#,C#		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13
G	Relative Dominant Major		#4	F#	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13
C	Major	b7			Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13
G	Relative Dominant Jazz Minor	b3	#4,b7	F#,Bb	Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13	
G	Relative Dominant Harmonic Major	b6	#4,b3	F#,Eb	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13
G	Relative Dominant Major b9	b2	#4,b6	F#,Ab	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13
G	Relative Dominant Major b5	b5	#4,b2	F#,Db	Maj7 b9,+11,13	xxx			Minbb7 9,11,b13		Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13		xxx
					C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second order Alterations: C

	Relative to:	C major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
C	Major +13	#6	#6	A#	Dom7 Maj7 9,11,+13		xxx 9,11,13		Min7 b9,+11,b13	xxx		Dom7 +9,11,13		xxx		Min+7b5 b9,11,b13
C	Major +9	#2	#2	D#	Maj7 +9,11,13			xxx	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13
A	Relative Harmonic Minor	#5	#5	G#	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13
D	Relative Jazz Minor	#1	#1	C#		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13
G	Relative Dominant Major	#4	#4	F#	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13
C	Major				Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13
F	Relative Sub-Dominant Major	b7	b7	Bb	Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13	
C	Jazz Minor	b3	b3	Eb	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13
C	Harmonic Major	b6	b6	Ab	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13
C	Major b9	b2	b2	Db	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13
C	Major b5	b5	b5	Gb	Maj7b5 9,11,13		Min7 9,b11,13		xxx	Maj7 b9,+11,13	xxx			Minbb7 9,11,b13		Min7b5 b9,11,bb13
					C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second order Alterations: C

	Relative to:	F Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
F	Relative Sub-Dominant Maj+13	#6	b7,#2	Bb,D#	Dom7 +9,11,13			xxx b9,b11,bb13	Min+7b5 b9,11,b13	Maj7 9,11,+13		xxx 9,11,13		Min7 b9,+11,b13	xxx 9,+11,13	
F	Relative Sub-Dominant Maj+9	#2	b7,#5	Bb,G#	Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx b9,b11,b13	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13	
D	Relative Harmonic Minor	#5	b7,#1	Bb,C#		Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13	
G	Relative Subdominant's Relative Jazz minor	#1	b7,#4	Bb,F#	Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13	
C	Major	#4			Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13
F	Relative Sub-Dominant Major		b7	Bb	Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13	
Bb	Relative Sub-Dominant's Relative Sub-Dominant Major	b7	b7,b3	Bb,Eb	Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13	
F	Relative Sub-Dominant Jazz Minor	b3	b7,b6	Bb,Ab	Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13	
F	Relative Sub-Dominant Harmonic Major	b6	b7,b2	Bb,Db	Dom7 b9,11,13	Dim7 Aug7 +9,+11,13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13	
F	Relative Sub-Dominant Major b9	b2	b7,b5	Bb,Gb	Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13	
F	Relative Sub-Dominant Majb5	b5	b7,b1	Bb,Cb			Minbb7 9,11,b13		Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13		xxx b9,11,b13	Maj7 b9,+11,13	xxx +9,+11,+13
					C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second order Alterations: C

	Relative to:	C Jazz Min.	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
C	Jazz Minor +13	#6	b3, #6	Eb,A#	Min+7 9,11,+13		xxx b9,11,13	xxx 9,++11,13		xxx 9,+11,13		Dom7 +9,11,b13			xxx b9,b11,bb13	Min+7b5 b9,b11,b13
C	Jazz Minor +5	#5	b3, #5	Eb,G#	xxx 9,11,13		Dim7 Min7 b9,+11,13	xxx 9,+11,13		Dim7 Dom7 +9,+11,13			Dim7 b9,b11,bb13	xxx 9,11,b13		Dim7 Min7b5 b9,11,13
G	Whole Tone	#1	b3, #1	Eb,C#		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13
G	Relative Dominant Harmonic Major	#4	b3,#4	Eb,F#	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13
C	Major	#3			Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13
C	Jazz Minor		b3	Eb	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13
Bb	Relative Sub-Dominant's Relative Sub-Dominant Major	b7	b3, b7	Eb,Bb	Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13	
C	Harmonic Minor	b6	b3, b6	Eb,Ab	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13
F	Whole Tone	b2	b3, b2	Eb,Db	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,b13
C	Jazz Minor b5	b5	b3, b5	Eb,Gb	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13	Dim7 xxx 9,+11,13		Dom7 b9,+11,13	Dim7 xxx +9,+11,13			Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13
C	Jazz Minor b11	b4	b3, b4	Eb,Fb	Maj7 Min+7 9,b11,13		xxx b9,11,13	Aug7 b9,+11,13	xxx +9,++11,+13			Maj6 9,11,b13		Min7b5 9,11,bb13		Min7bb5 b9,b11,b13
					C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second order Alterations: C

	Relative to:	C Harm. Maj	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
C	Harmonic Major +9	#2	b6, #2	Ab,D#	Maj7 +9,11,b13			xxx b9,b11,b13	Min+7 b9,b11,b13	Min+7 9,+11,+13		Dom7+5 b9,11,13	Aug7 +9,++11,13			xxx b9,11,b13
D	Relative Jazz Minor b5	#1	b6, #1	Ab,C#		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13	Dim7 Minb5+7 9,+11,b13		Dom7 b9,+11,13	Dim7 Aug7 +9,+11,13			Dim7 9,11,b13
G	Relative Dominant Major b9	#4	b6, #4	Ab,F#	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13
C	Major	#6			Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13
C	Harmonic Major		b6	Ab	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13
F	Relative Sub-Dominant Jazz Minor	b7	b6, b7	Ab,Bb	Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13	
C	Harmonic Minor	b3	b6,b3	Ab,Eb	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13
F	Relative Sub-Dominant Double Harmonic Minor	b2	b6, b2	Ab,Db	Maj7 b9,11,b13	Maj7 +9,+11,+13			Min6 b9,b11,b13	Min+7 9,+11,b13		Dom7b5 b9,11,13	Aug7 +9,11,+13			xxx b9,11,b13
C	Harmonic Major b5	b5	b6, b5	Ab,Gb	Maj7b5 9,11,b13		Dom7b5/Dim7 Min7b5 9,b11,13		Dom7 xxx b9,b11,b13	Dim7 Min+7 b9,+11,13	xxx 9,+11,+13		Dim7 Dom7+5 +9,+11,+13			Dim7 b9,11,bb13
					C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: G

	Relative to:	E Harm Min	G Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
G	Major +5+13	#1	#5,#6	#4,#2,#3	F#,D#,E#	xxx +9,+11,13			Dim7 9,b11,b13		Dom7b5 xxx b9,b11,bb13	Min+7b5 b9,11,13	Aug7 9,11,+13		xxx 9,+11,13		Dom7 b9,+11,b13
E	Relative Double Harmonic Minor	#4	#5,#2	#4,#2,#6	F#,D#,A#	Maj7 +9,+11,+13			Minbb7 b9,b11,b13	Min+7 9,+11,b13		Dom7b5 b9,11,13	Aug7 +9,11,13		xxx b9,11,b13		Maj7 b9,11,b13
E	Relative Harmonic Major	#3	#5,#1	#4,#2,#5	F#,D#,G#	Dim7 Aug7 +9,+11,13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13
E	Relative Dominant's Relative Jazz Minor	#6	#5,#4	#4,#2,#1	F#,D#,C#		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13
E	Relative Harmonic Minor		#5	#4,#2	F#,D#	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13
G	Major	b7		#4	F#	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13
C	Relative Subdominant Maj +9	b2	#5,b7	#2	D#	Maj7 +9,11,13			xxx b9,b11,b13	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13
G	Jazz Minor +5	b5	#5,b3	#4,#2,b7	F#,D#,Bb	Dim7 Dom7 +9,+11,13			Dim7 b9,b11,bb13	xxx 9,11,b13		Dim7 Min7b5 b9,11,13	xxx 9,11,13		Dim7 Min7 b9,+11,13	xxx 9,+11,13	
C	Major b9+5	b4	#5,b2	#4,#2,b6	F#,D#,Ab	Maj7 +9,+11,b13			xxx b9,b11,b13	Maj7 Min+7 9,b11,b13		Min7b5 b9,11,13	Aug7 b9,11,13	Dom7 Aug7 +9,++11,+13			Maj6 b9,11,b13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: G

	Relative to:	A Jazz Min.	G Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
A	Relative Jazz Minor +13	#6	#1,#7	x4,#5	Fx,G#	Maj7 Aug7 9,++11,13		xxx 9,+11,13		Dom7 +9,11,b13			xxx b9,b11,bb13	Min+7b5 b9,b11,b13	Min+7 9,11,+13		xxx b9,11,13
A	Relative Jazz Minor +5	#5	#1,#6	#4,#5,#3	F#,G#,E#	xxx 9,+11,13		Dim7 Dom7 +9,+11,13			Dom7 Dim7 b9,b11,bb13	Min+7b5 9,11,b13		Dom7b5/Dim7 Min7b5 b9,b11,13	xxx 9,11,13		Dim7 Min7 b9,+11,13
E	Relative Harmonic Major	#4	#1,#5	#4,#5,#2	F#,G#,D#	Dim7 Aug7 +9,+11,13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13
E	Whole Tone	#1	#1,#2	#4,#5,#6	F#,G#,A#	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13
A	Relative Dominant's Relative Dominant Major	#3	#1,#4	#4,#5,#1	F#,G#,C#		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13
A	Relative Jazz Minor		#1	#4,#5	F#,G#	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13
G	Major	b7		#4	F#	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13
A	Relative SubDominant's Relative Harm Minor	b6	#1,b7	#5	G#	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13
D	Whole Tone	b2	#1,b3	#4,#5,b7	F#,G#,Bb	Dom7b5 Dom7+5 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13	
A	Relative Jazz Minor b5	b5	#1,b6	#4,#5,b3	F#,G#,Eb	Dim7 Minb5+7 9,+11,b13		Dom7 b9,+11,13	Dim7 Aug7 +9,+11,13			Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13
A	Relative Jazz Minor b11	b4	#1,b5	#4,#5,b2	F#,G#,Db	Aug7 b9,+11,13	xxx +9,++11,+13			xxx 9,11,b13		Min7b5 9,11,b13		xxx b9,b11,b13	Maj7 Min+7 9,b11,13		xxx b9,11,13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: G

	Relative to:	D major	G Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
D	Relative Dominant Major +13	#6	#4,#3	#4,#1,#7	F#,C#,B#	xxx	Min+7b5 b9,11,b13	Dom7 Maj7 9,11,+13		xxx		Min7 b9,+11,b13	xxx		Dom7 +9,11,13		
D	Relative Dominant Major +9	#2	#4,#6	#4,#1,#3	F#,C#,E#		Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13
B	Relative Dominant's Relative Harmonic Minor	#5	#4,#2	#4,#1,#6	F#,C#,A#		Dim7 Min7b5 b9,11,b13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13
E	Relative Dominant's Relative Jazz Minor	#1	#4,#5	#4,#1,#2	F#,C#,D#		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13
A	Relative Dominant's Relative Dominant Major	#4	#4,#1	#4,#1,#5	F#,C#,G#		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13
D	Relative Dominant Major		#4	#4,#1	F#,C#		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13
G	Major	b7		#4	F#	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13
D	Relative Dominant Jazz Minor	b3	#4,b7	#1	C#		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13
D	Relative Dominant Harmonic Major	b6	#4,b3	#4,#1,b7	F#,C#,Bb		Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13	
D	Relative Dominant Major b9	b2	#4,b6	#4,#1,b3	F#,C#,Eb		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13
D	Relative Dominant Major b5	b5	#4,b2	#4,#1,b6	F#,C#,Ab		Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13		xxx	Maj7 b9,+11,13	xxx			Minbb7 9,11,b13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: G

	Relative to:	G major	G Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
G	Major +13	#6	#6	#4,#3	F#,E#	xxx		Dom7 +9,11,13			xxx	Min+7b5 b9,11,b13	Dom7 Maj7 9,11,+13		xxx 9,11,13		Min7 b9,+11,b13
G	Major +9	#2	#2	#4,#6	F#,A#	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx	Min+7 b9,11,b13
E	Relative Harmonic Minor	#5	#5	#4,#2	F#,D#	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13
A	Relative Jazz Minor	#1	#1	#4,#5	F#,G#	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13
D	Relative Dominant Major	#4	#4	#4,#1	F#,C#		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13
G	Major			#4	F#	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13
C	Relative Sub-Dominant Major	b7	b7			Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13
G	Jazz Minor	b3	b3	#4,b7	F#,Bb	Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13	
G	Harmonic Major	b6	b6	#4,b3	F#,Eb	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13
G	Major b9	b2	b2	#4,b6	F#,Ab	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13
G	Major b5	b5	b5	#4,b2	F#,Db	Maj7 b9,+11,13	xxx			Minbb7 9,11,b13		Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13		xxx
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: G

	Relative to:	C Major	G Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
C	Relative Sub-Dominant Maj+13	#6	b7,#2	#6	A#	Maj7 9,11,+13		xxx 9,11,13		Min7 b9,+11,b13	xxx 9,+11,13		Dom7 +9,11,13			xxx b9,b11,bb13	Min+7b5 b9,11,b13
B	Relative Sub-Dominant Maj+9	#2	b7,#5	#2	D#	Maj7 +9,11,13			xxx b9,b11,b13	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13
A	Relative Harmonic Minor	#5	b7,#1	#5	G#	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13
D	Relative Subdominant's Relative Jazz minor	#1	b7,#4	#1	D#		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13
G	Major	#4		#4	F#	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13
c	Relative Sub-Dominant Major		b7			Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13
F	Relative Sub-Dominant's Relative Sub-Dominant Major	b7	b7,b3	b7	Bb	Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13	
C	Relative Sub-Dominant Jazz Minor	b3	b7,b6	b3	Eb	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13
C	Relative Sub-Dominant Harmonic Major	b6	b7,b2	b6	Ab	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13			Dim7 b9,11,b13
C	Relative Sub-Dominant Major b9	b2	b7,b5	b2	Db	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13
C	Relative Sub-Dominant Majb5	b5	b7,b1	b5	Gb	Maj7b5 9,11,13		Min7 9,b11,13		xxx b9,11,b13	Maj7 b9,+11,13	xxx +9,+11,+13			Minbb7 9,11,b13		Min7b5 b9,11,bb13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: G

	Relative to:	G Jazz Min.	G Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
G	Jazz Minor +13	#6	b3, #6	#4,b7,#3	F#,Bb,E#	xxx 9,+11,13		Dom7 +9,11,b13			xxx b9,b11,bb13	Min+7b5 b9,b11,b13	Min+7 9,11,+13		xxx b9,11,13	xxx 9,++11,13	
G	Jazz Minor +5	#5	b3, #5	#4,b7,#2	F#,Bb,D#	Dim7 Dom7 +9,+11,13			Dim7 b9,b11,bb13	xxx 9,11,b13		Dim7 Min7b5 b9,11,13	xxx 9,11,13		Dim7 Min7 b9,+11,13	xxx 9,+11,13	
D	Whole Tone	#1	b3, #1	#4,b7,#5	F#,Bb,G#	Dom7b5 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13	Dom7b5 xxx b9,b11,13		Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13	
D	Relative Dominant Harmonic Major	#4	b3,#4	#4,b7,#1	F#,Bb,C#		Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13	
G	Major	#3		#4	F#	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13
G	Jazz Minor		b3	#4,b7	F#,Bb	Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13	
F	Relative Sub-Dominant's Relative Sub-Dominant Major	b7	b3, b7	b7	Bb	Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13	
G	Harmonic Minor	b6	b3, b6	#4,b7,b3	F#,Bb,Eb	Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13	
C	Whole Tone	b2	b3, b2	#4,b7,b6	F#,Bb,Ab	Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,b13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13	
G	Jazz Minor b5	b5	b3, b5	#4,b7,b2	F#,Bb,Db	Dom7 b9,+11,13	Dim7 xxx +9,+11,13			Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13	Dim7 xxx 9,+11,13	
G	Jazz Minor b11	b4	b3, b4	#4,b7,b1	F#,Bb,Cb			Maj6 9,11,b13		Min7b5 9,11,bb13		Min7bb5 b9,b11,b13	Maj7 Min+7 9,b11,13		xxx b9,11,13	Aug7 b9,+11,13	xxx +9,++11,+13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: G

Relative to:		G Harm. Maj	G Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
G	Harmonic Major +9	#2	b6, #2	#4,b3,#6	F3,Bb,A#	Min+7 9,+11,+13		Dom7+5 b9,11,13	Aug7 +9,++11,13			xxx b9,11,b13	Maj7 +9,11,b13			xxx b9,b11,b13	Min+7 b9,b11,b13
A	Relative Jazz Minor b5	#1	b6, #1	#4,b3,#5	F#,Eb,G#	Dim7 Minb5+7 9,+11,b13		Dom7 b9,+11,13	Dim7 Aug7 +9,+11,13			Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13
D	Relative Dominant Major b9	#4	b6, #4	#4,b3,#1	F#,Eb,C#		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13
G	Major	#6		#4	F#	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13
G	Harmonic Major		b6	#4,b3	F#,Eb	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13
C	Relative Sub-Dominant Jazz Minor	b7	b6, b7	b3	Eb	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13
G	Harmonic Minor	b3	b6,b3	#4,b3,b7	F#,Eb,Bb	Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13	
C	Relative Sub-Dominant Double Harmonic Minor	b2	b6, b2	#4,b3,b6	F#,Eb,Ab	Min+7 9,+11,b13		Dom7b5 b9,11,13	Aug7 +9,11,+13			xxx b9,11,b13	Maj7 b9,11,b13	Maj7 +9,+11,+13			Min6 b9,b11,b13
G	Harmonic Major b5	b5	b6, b5	#4,b3,b2	F#,Eb,Db	Dim7 Min+7 b9,+11,13	xxx 9,+11,+13		Dim7 Dom7+5 +9,+11,+13			Dim7 b9,11,bb13	Maj7b5 9,11,b13		Dom7b5/Dim7 Min7b5 9,b11,13		Dom7 xxx b9,b11,b13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Seconds Order Alterations: D

		Relative to:	B Harm Min	D Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
D	Major +5+13	#1	#5,#6	#4,#1,#6,#7	F#,C#,A#,B#		Dom7b5 xxx b9,b11,bb13	Min7b5 b9,11,13	Aug7 9,11,+13		xxx 9,+11,13		Dom7 b9,+11,b13	xxx +9,+11,13			Dim7 9,b11,b13	
B	Relative Double Harmonic Minor	#4	#5,#2	#4,#1,#6,#3	F#,C#,A#,E#			Dom7b5 b9,11,13	Aug7 +9,11,13			xxx b9,11,b13	Maj7 b9,11,b13	Maj7 +9,+11,+13			Minbb7 b9,b11,b13	Min+7 9,+11,b13
B	Relative Harmonic Major	#3	#5,#1	#4,#1,#6,#2	F#,C#,A#,D#			Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13			Dim7 b9,11,b13	Maj7 9,11,b13
B	Relative Dominant's Relative Jazz Minor	#6	#5,#4	#4,#1,#6,#5	F#,C#,A#,G#			Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13
B	Relative Harmonic Minor		#5	#4,#1,#6	F#,C#,A#			Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13
D	Major	b7		#4,#1	F#,C#			Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13
G	Relative Subdominant Maj +9	b2	#5,b7	#4,#6	F#,A#		Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx b9,b11,b13	Min+7 b9,11,b13
D	Jazz Minor +5	b5	#5,b3	#1,#6	F#,A#			Dim7 Min7b5 b9,11,13	xxx 9,11,13		Dim7 Min7 b9,+11,13	xxx 9,+11,13		Dim7 Dom7 +9,+11,13			Dim7 b9,b11,bb13	xxx 9,11,b13
D	Major b9+5	b4	#5,b2	#4,#1,#6,b3	F#,C#,A#,Eb			Min7b5 b9,11,13	Aug7 b9,11,13	Dom7 Aug7 +9,+11,+13			Maj6 b9,11,b13	Maj7 +9,+11,b13			xxx b9,b11,b13	Maj7 Min+7 9,b11,b13
							C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Seconds Order Alterations: D

		Relative to:	E Jazz Min.	D Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B	
E	Relative Jazz Minor +13	#6	#1,#7	#4,x1,#2	F#,Cx,D#				xxx b9,b11,bb13	Min+7b5 b9,b11,b13	Min+7 9,11,+13		xxx b9,11,13	Maj7 Aug7 9,+11,13		xxx 9,+11,13		Dom7 +9,11,b13	
E	Relative Jazz Minor +5	#5	#1,#6	#4,#1,#2,#7	F#,C#,D#,B#	Dom7 Dim7 b9,b11,bb13		Min+7b5 9,11,b13		Dom7b5/Dim7 Min7b5 b9,b11,13	xxx 9,11,13		Dim7 Min7 b9,+11,13	xxx 9,+11,13		Dim7 Dom7 +9,+11,13			
B	Relative Harmonic Major Phrygian Dom7(b9,11,13)	#4	#1,#5	#4,#1,#2,#6	F#,C#,D#,A#			Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13			Dim7 b9,11,b13	Maj7 9,11,b13	
B	Whole Tone	#1	#1,#2	#4,#1,#2,#3	F#,C#,D#,E#		Dom7b5 9,11,b13			Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13		Dom7b5 Dom7 9,+11,b13	
E	Relative Dominant's Relative Dominant Major	#3	#1,#4	#4,#1,#2,#5	F#,C#,D#,G#			Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13	
E	Relative Jazz Minor		#1	#4,#1,#2	F#,C#,D#			Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13	
D	Major	b7		#4,#1	F#,C#			Min7b5 b9,11,b13	Maj7 9,11,13			Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13
E	Relative SubDominant's Relative Harm Minor	b6	#1,b7	#4,#2	F#,D#	Dim7 Maj7 +9,+11,13				Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	
A	Whole Tone	b2	#1,b3	#1,#2	C#,D#		Dom7b5 Min7b5 9,b11,b13			Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 Aug7 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13	
E	Relative Jazz Minor b5	b5	#1,b6	#4,#1,#2,b7	F#,C#,D#,Bb			Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13	Dim7 Minb5+7 9,+11,b13		Dom7 b9,+11,13	Dim7 Aug7 +9,+11,13		
E	Relative Jazz Minor b11	b4	#1,b5	#4,#1,#2,b6	F#,C#,D#,Ab			Min7b5 9,11,b13		xxx b9,b11,b13	Maj7 Min+7 9,b11,13		xxx b9,11,13	Aug7 b9,+11,13	xxx +9,+11,+13			xxx 9,11,b13	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B		

Seconds Order Alterations: D

Relative to:		A Major	D Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
A	Relative Dominant Major +13	#6	#4,#3	x4,#1,#5	Fx,C#,G#		Min7 b9,+11,b13	xxx		Dom7 +9,+11,13			xxx	Min+7b5 b9,11,b13	Dom7 Maj7 9,11,+13		xxx
A	Relative Dominant Major +9	#2	#4,#6	#4,#1,#5,#7	F#,C#,G#,B#	xxx	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13		
F#	Relative Dominant's Relative Harmonic Minor	#5	#4,#2	#4,#1,#5,#3	F#,C#,G#,E#		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13	Aug7 9,11,13		Dim7 Min7 9,+11,13
B	Relative Dominant's Relative Jazz Minor	#1	#4,#5	#4,#1,#5,#6	F#,C#,G#,A#		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13
E	Relative Dominant's Relative Dominant Major	#4	#4,#1	#4,#1,#5,#2	F#,C#,G#,D#		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13
A	Relative Dominant Major		#4	#4,#1,#5	F#,C#,G#		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13
D	Major	b7		#4,#1	F#,C#		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13
A	Relative Dominant Jazz Minor	b3	#4,b7	#4,#5	F#,G#	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13
A	Relative Dominant Harmonic Major	b6	#4,b3	#1,#5	C#,G#		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13
A	Relative Dominant Major b9	b2	#4,b6	#4,#1,#5,b7	F#,C#,G#,Bb		Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13	
A	Relative Dominant Major b5	b5	#4,b2	#4,#1,#5,b3	F#,C#,G#,Eb		xxx	Maj7 b9,+11,13	xxx			Minbb7 9,11,b13		Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Seconds Order Alterations: D

Relative to:		D major	D Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B	
D	Major +13	#6	#6	#4,#1,#7	F#,C#	xxx	Min+7b5 b9,11,b13	Dom7 Maj7 9,11,+13		xxx 9,11,13		Min7 b9,+11,b13	xxx		Dom7 +9,11,13			
D	Major +9	#2	#2	#4,#1,#3	F#,C#,E#		Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13	
B	Relative Harmonic Minor	#5	#5	#4,#1,#6	F#,C#,A#		Dim7 Min7b5 b9,11,b13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13	
E	Relative Jazz Minor	#1	#1	#4,#1,#2	F#,C#,D#		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13	
A	Relative Dominant Major	#4	#4	#4,#1,#5	F#,C#,G#		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13	
D	Major			#4,#1	F#,C#		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13	
G	Relative Sub-Dominant Major	b7	b7	#4	F#	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	
D	Jazz Minor	b3	b3	#1	C#		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13	
D	Harmonic Major	b6	b6	#4,#1,b7	F#,C#,Bb		Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13		
D	Major b9	b2	b2	#4,#1,b3	F#,C#,Eb		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13	
D	Major b5	b5	b5	#4,#1,b6	F#,C#,Ab		Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13		xxx	Maj7 b9,+11,13	xxx			Minbb7 9,11,b13	
							C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Seconds Order Alterations: D

	Relative to:	G Major	D Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
G	Relative Sub-Dominant Maj+13	#6	b7,#2	#4,#3	F#,E#	xxx 9,+11,13		Dom7 +9,11,13			xxx b9,b11,bb13	Min+7b5 b9,11,b13	Maj7 9,11,+13		xxx 9,11,13		Min7 b9,+11,b13
F#	Relative Sub-Dominant Maj+9	#2	b7,#5	#4,#6	F#,A#	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13		xxx b9,b11,b13		Min+7 b9,11,b13
E	Relative Harmonic Minor	#5	b7,#1	#4,#2	F#,D#	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13
A	Relative Subdominant's Relative Jazz minor	#1	b7,#4	#4,#5	F#,G#	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13
D	Major	#4		#4,#1	F#,C#		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13
G	Relative Sub-Dominant Major		b7	#4	F#	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13
C	Relative Sub-Dominant's Relative Sub-Dominant Major	b7	b7,b3			Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13
G	Relative Sub-Dominant Jazz Minor	b3	b7,b6	#4,b7	F#,Bb	Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13	
G	Relative Sub-Dominant Harmonic Major	b6	b7,b2	#4,b3	F#,Eb	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13
G	Relative Sub-Dominant Major b9	b2	b7,b5	#4,b6	F#,Ab	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13
G	Relative Sub-Dominant Majb5	b5	b7,b1	#4,b2	F#,Db	Maj7 b9,+11,13	xxx +9,+11,+13			Minbb7 9,11,b13		Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13		xxx b9,11,b13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Seconds Order Alterations: D

	Relative to:	D Jazz Min.	D Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
D	Jazz Minor +13	#6	b3, #6	#1,#7	C#,B#	xxx b9,b11,bb13	Min+7b5 b9,b11,b13	Min+7 9,11,13		xxx b9,11,13	xxx 9,++11,13		xxx 9,+11,13		Dom7 +9,11,b13		
D	Jazz Minor +5	#5	b3, #5	#1,#6	C#,A#		Dim7 Min7b5 b9,11,13	xxx 9,11,13		Dim7 Min7 b9,+11,13	xxx 9,+11,13		Dim7 Dom7 +9,+11,13			Dim7 b9,b11,bb13	xxx 9,11,b13
A	Whole Tone	#1	b3, #1	#1,#5	C#,G#		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13
A	Relative Dominant Harmonic Major	#4	b3,#4	#1,#2	C#,D#		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13
D	Major	#3		#1,#4	C#,F#		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13
D	Jazz Minor		b3	#1	C#		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13
C	Relative Sub-Dominant's Relative Sub-Dominant Major	b7	b3, b7			Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13
D	Harmonic Minor	b6	b3, b6	#1,b7	C#,Bb		Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13	
G	Whole Tone	b2	b3, b2	#1,b3	C#,Eb		Dom7b5 xxx b9,b11,b13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 9,b11,b13
D	Jazz Minor b5	b5	b3, b5	#1,b6	C#,AB		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13	Dim7 xxx 9,+11,13		Dom7 b9,+11,13	Dim7 xxx +9,+11,13			Dim7 9,11,b13
D	Jazz Minor b11	b4	b3, b4	#1,b5	C#,Gb		Min7bb5 b9,b11,b13	Maj7 Min+7 9,b11,13		xxx b9,11,13	Aug7 b9,+11,13	xxx +9,++11,+13			Maj6 9,11,b13		Min7b5 9,11,bb13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Seconds Order Alterations: D

	Relative to:	D Harm. Maj	D Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
D	Harmonic Major +9	#2	b6, #2	#4,#1,b7,#3	F#,C#,Bb,E#		xxx b9,11,b13	Maj7 +9,11,b13			xxx b9,b11,b13	Min+7 b9,b11,b13	Min+7 9,+11,+13		Dom7+5 b9,11,13	Aug7 +9,++11,13	
E	Relative Jazz Minor b5	#1	b6, #1	#4,#1,b7,#2	F#,C#,Bb,D#		Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13	Dim7 Minb5+7 9,+11,b13		Dom7 b9,+11,13	Dim7 Aug7 +9,+11,13	
A	Relative Dominant Major b9	#4	b6, #4	#4,#1,b7,#5	F#,C#,Bb,G#		Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13	
D	Major	#6		#4,#1	F#,C#		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13
D	Harmonic Major		b6	#4,#1,b7	F#,C#,Bb		Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13	
G	Relative Sub-Dominant Jazz Minor	b7	b6, b7	#4,b7	F#,Bb	Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13	
D	Harmonic Minor	b3	b6,b3	#1,b7	C#,Bb		Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13	
G	Relative Sub-Dominant Double Harmonic Minor	b2	b6, b2	#4,#1,b7,b3	F#,C#,Bb,Eb		xxx b9,11,b13	Maj7 b9,11,b13	Maj7 +9,+11,+13			Min6 b9,b11,b13	Min+7 9,+11,b13		Dom7b5 b9,11,13	Aug7 +9,11,+13	
D	Harmonic Major b5	b5	b6, b5	#4,#1,b7,b6	F#,C#,Bb,Ab		Dim7 b9,11,bb13	Maj7b5 9,11,b13		Dom7b5/Dim7 Min7b5 9,b11,13		Dom7 xxx b9,b11,b13	Dim7 Min+7 b9,+11,13	xxx 9,+11,+13		Dim7 Dom7+5 +9,+11,+13	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: A

		Relative to:	F# Harm Min	A Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
A	Major +5+13	#1	#5,#6	x4,#1,#5,#3	Fx,C#,G#,E#		Dom7 b9,+11,b13	xxx +9,+11,13				Dim7 9,b11,b13		Dom7b5 xxx b9,b11,bb13	Min+7b5 b9,11,13	Aug7 9,11,+13		xxx 9,+11,13
F#	Relative Double Harmonic Minor	#4	#5,#2	#4,#1,#5 #3,#7	F#,C#,G# E#,B#		xxx b9,11,b13	Maj7 b9,11,b13	Maj7 +9,+11,+13			Minbb7 b9,b11,b13	Min+7 9,+11,b13		Dom7b5 b9,11,13	Aug7 +9,11,13		
F#	Relative Harmonic Major	#3	#5,#1	#4,#1,#5 #3,#6	F#,C#,G# E#,A#		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13				Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13
F#	Relative Dominant's Relative Jazz Minor	#6	#5,#4	#4,#1,#5 #3,#2	F#,C#,G# E#,D#		Dom7 9,11,b13			Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13
F#	Relative Harmonic Minor		#5	#4,#1,#5,#3	F#,C#,G#,E#		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13				Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13
A	Major	b7		#4,#1,#5	F#,C#,G#		Min7 b9,11,b13	Maj7 9,+11,13			Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13
D	Relative Subdominant Maj +9	b2	#5,b7	#4,#1,#3	F#,C#,E#		Dom7b5 b9,11,b13	Maj7 +9,11,13				xxx b9,b11,b13	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13
A	Jazz Minor +5	b5	#5,b3	#4,#5,#3	F#,G#,E#		xxx 9,+11,13	Dim7 Dom7 +9,+11,13				Dim7 b9,b11,bb13	xxx 9,11,b13		Dim7 Min7b5 b9,11,13	xxx 9,11,13		Dim7 Min7 b9,+11,13
A	Major b9+5	b4	#5,b2	#4,#1,#5 #3,b7	F#,C#,G# E#,Bb		Maj6 b9,11,b13	Maj7 +9,+11,b13				xxx b9,b11,b13	Maj7 Min+7 9,b11,b13		Min7b5 b9,11,13	Aug7 b9,11,13	Dom7 Aug7 +9,++11,+13	
							C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: A

	Relative to:	B Jazz Min.	A Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
B	Relative Jazz Minor +13	#6	#1,#7	#4,#1,x5,#6	F#,C#,Gx,A#		xxx b9,11,13	Maj7 Aug7 9,+11,13		xxx 9,+11,13		Dom7 +9,11,b13			xxx b9,b11,bb13	Min+7b5 b9,b11,b13	Min+7 9,11,+13
B	Relative Jazz Minor +5	#5	#1,#6	x4,#1,#5,#6	Fx,C#,G#,A#		Dim7 Min7 b9,+11,13	xxx 9,+11,13		Dim7 Dom7 +9,+11,13			Dom7 Dim7 b9,b11,bb13	Min+7b5 9,11,b13		Dom7b5/Dim7 Min7b5 b9,b11,13	xxx 9,11,13
F#	Relative Harmonic Major Phrygian Dom7(b9,11,13)	#4	#1,#5	#4,#1,#5 #2,#3	F#,C#,G# D#,E#		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13
F#	Whole Tone	#1	#1,#2	#4,#1,#5 #6,#7	F#,C#,G# A#,B#	Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13	
B	Relative Dominant's Relative Dominant Major	#3	#1,#4	#4,#1,#5 #2,#6	F#,C#,G# D#,A#		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13
B	Relative Jazz Minor		#1	#4,#1,#5,#6	F#,C#,G#,A#		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13
A	Major	b7		#4,#1,#5	F#,C#,G#		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13
B	Relative SubDominant's Relative Harm Minor	b6	#1,b7	#4,#1,#6	F#,C#,A#		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13
E	Whole Tone	b2	#1,b3	#4,#5,#6	F#,G#,A#	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13
B	Relative Jazz Minor b5	b5	#1,b6	#1,#5,#6	C#,G#,A#		Dom7 Min7 b9,b11,13	Dim7 Minb5+7 9,+11,b13		Dom7 b9,+11,13	Dim7 Aug7 +9,+11,13			Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13
B	Relative Jazz Minor b11	b4	#1,b5	#4,#1,#5 #6,b3	F#,C#,G# A#,Eb		xxx b9,11,13	Aug7 b9,+11,13	xxx +9,+11,+13			xxx 9,11,b13		Min7b5 9,11,b13		xxx b9,b11,b13	Maj7 Min+7 9,b11,13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: A

	Relative to:	E Major	A Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
E	Relative Dominant Major +13	#6	#4,#3	#4,x1,#5,#2	F#,Cx,G#,D#			xxx	Min+7b5 b9,11,b13	Dom7 Maj7 9,11,+13		xxx		Min7 b9,+11,b13	xxx		Dom7 +9,11,13
E	Relative Dominant Major +9	#2	#4,#6	x4,#1,#5,#2	Fx,C#,G#,D#		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13
C#	Relative Dominant's Relative Harmonic Minor	#5	#4,#2	#4,#1,#5 #2,#7	F#,C#,G# D#,B#	Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13		
F#	Relative Dominant's Relative Jazz Minor	#1	#4,#5	#4,#1,#5 #2,#3	F#,C#,G# D#,E#		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13
B	Relative Dominant's Relative Dominant Major	#4	#4,#1	#4,#1,#5 #2,#6	F#,C#,G# D#,A#		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13
E	Relative Dominant Major		#4	#4,#1,#5,#2	F#,C#,G#,D#		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13
A	Major	b7		#4,#1,#5	F#,C#,G#		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13
E	Relative Dominant Jazz Minor	b3	#4,b7	#4,#1,#2	F#,C#,D#		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13
E	Relative Dominant Harmonic Major	b6	#4,b3	#4,#5,#2	F#,G#,D#	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13
E	Relative Dominant Major b9	b2	#4,b6	#1,#5,#2	C#,G#,D#		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13
E	Relative Dominant Major b5	b5	#4,b2	#4,#1,#5 #2,b7	F#,C#,G# D#,Bb		Minbb7 9,11,b13		Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13		xxx	Maj7 b9,+11,13	xxx	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: A

	Relative to:	A major	A Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
A	Major +13	#6	#6	x4,#1,#5	Fx,C#,G#		Min7 b9,+11,b13	xxx		Dom7 +9,11,13			xxx	Min+7b5 b9,11,b13	Dom7 Maj7 9,11,+13		xxx
A	Major +9	#2	#2	#4,#1,#5,#7	F#,C#,G#,B#	xxx	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13		
F#	Relative Harmonic Minor	#5	#5	#4,#1,#5,#3	F#,C#,G#,E#		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13	Aug7 9,11,13		Dim7 Min7 9,+11,13
B	Relative Jazz Minor	#1	#1	#4,#1,#5,#6	F#,C#,G#,A#		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13
E	Relative Dominant Major	#4	#4	#4,#1,#5,#2	F#,C#,G#,D#		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13
A	Major			#4,#1,#5	F#,C#,G#		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13
D	Relative Sub-Dominant Major	b7	b7	#4,#1	F#,C#		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13
A	Jazz Minor	b3	b3	#4,#5	F#,G#	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13
A	Harmonic Major	b6	b6	#1,#5	C#,G#		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13
A	Major b9	b2	b2	#4,#1,#5,b7	F#,C#,G#,Bb		Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13	
A	Major b5	b5	b5	#4,#1,#5,b3	F#,C#,G#,Eb		xxx	Maj7 b9,+11,13	xxx			Minbb7 9,11,b13		Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: A

	Relative to:	D Major	A Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
D	Relative Sub-Dominant Maj+13	#6	b7,#2	#4,#1,#7	F#,C#	xxx	Min+7b5 b9,11,b13	Dom7 Maj7 9,11,+13		xxx 9,11,13		Min7 b9,+11,b13	xxx		Dom7 +9,11,13		
C#	Relative Sub-Dominant Maj+9	#2	b7,#5	#4,#1,#3	F#,C#,E#		Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13
B	Relative Harmonic Minor	#5	b7,#1	#4,#1,#6	F#,C#,A#		Dim7 Min7b5 b9,11,b13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13
E	Relative Subdominant's Relative Jazz minor	#1	b7,#4	#4,#1,#2	F#,C#,D#		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13
A	Major	#4		#4,#1,#5	F#,C#,G#		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13
D	Relative Sub-Dominant Major		b7	#4,#1	F#,C#		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13
G	Relative Sub-Dominant's Relative Sub-Dominant Major	b7	b7,b3	#4	F#	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13
D	Relative Sub-Dominant Jazz Minor	b3	b7,b6	#1	C#		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13
D	Relative Sub-Dominant Harmonic Major	b6	b7,b2	#4,#1,b7	F#,C#,Bb		Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13	
D	Relative Sub-Dominant Major b9	b2	b7,b5	#4,#1,b3	F#,C#,Eb		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13
D	Relative Sub-Dominant Majb5	b5	b7,b1	#4,#1,b6	F#,C#,Ab		Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13		xxx	Maj7 b9,+11,13	xxx			Minbb7 9,11,b13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: A

	Relative to:	A Jazz Min.	A Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
A	Jazz Minor +13	#6	b3, #6	x4,#5	Fx,G#	xxx 9,++11,13		xxx 9,+11,13		Dom7 +9,11,b13			xxx b9,b11,bb13	Min+7b5 b9,b11,b13	Min+7 9,11,+13		xxx b9,11,13
A	Jazz Minor +5	#5	b3, #5	#4,#5,#3	F#,G#,E#	xxx 9,+11,13		Dim7 Dom7 +9,+11,13			Dim7 b9,b11,bb13	xxx 9,11,b13		Dim7 Min7b5 b9,11,13	xxx 9,11,13		Dim7 Min7 b9,+11,13
E	Whole Tone	#1	b3, #1	#4,#5,#6	F#,G#,A#	Dom7b5 Aug7 9,+11,+13		Dom7b5 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13
E	Relative Dominant Harmonic Major	#4	b3,#4	#4,#5,#2	F#,G#,D#	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13
A	Major	#3		#4,#5,#1	F#,G#,C#		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13
A	Jazz Minor		b3	#4,#5	F#,G#	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13
G	Relative Sub-Dominant's Relative Sub-Dominant Major	b7	b3, b7	#4	F#	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13
A	Harmonic Minor	b6	b3, b6	#5	G#	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13
D	Whole Tone	b2	b3, b2	#4,#5,b7	F#,G#,Bb	Dom7b5 Dom7+5 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,b13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13	
A	Jazz Minor b5	b5	b3, b5	#4,#5,b3	F#,G#,Eb	Dim7 xxx 9,+11,13		Dom7 b9,+11,13	Dim7 xxx +9,+11,13			Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13
A	Jazz Minor b11	b4	b3, b4	#4,#5,b2	F#,G#,Db	Aug7 b9,+11,13	xxx +9,++11,+13			Maj6 9,11,b13		Min7b5 9,11,bb13		Min7bb5 b9,b11,b13	Maj7 Min+7 9,b11,13		xxx b9,11,13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: A

	Relative to:	A Harm. Maj	A Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
A	Harmonic Major +9	#2	b6, #2	#1,#5,#7	C#,G#,B#	xxx b9,b11,b13	Min+7 b9,b11,b13	Min+7 9,+11,+13		Dom7+5 b9,11,13	Aug7 +9,+11,13			xxx b9,11,b13	Maj7 +9,11,b13		
B	Relative Jazz Minor b5	#1	b6, #1	#1,#5,#6	C#,G#,A#		Dom7 Min7 b9,b11,13	Dim7 Minb5+7 9,+11,b13		Dom7 b9,+11,13	Dim7 Aug7 +9,+11,13			Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13
E	Relative Dominant Major b9	#4	b6, #4	#1,#5,#2	C#,G#,D#		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13
A	Major	#6		#4,#1,#5	F#,C#,G#		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13
A	Harmonic Major		b6	#1,#5	C#,G#		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13
D	Relative Sub-Dominant Jazz Minor	b7	b6, b7	#1	C#		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13
A	Harmonic Minor	b3	b6,b3	#5	G#	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13
D	Relative Sub-Dominant Double Harmonic Minor	b2	b6, b2	#1,#5,b7	C#,G#,Bb		Min6 b9,b11,b13	Min+7 9,+11,b13		Dom7b5 b9,11,13	Aug7 +9,+11,+13			xxx b9,11,b13	Maj7 b9,11,b13	Maj7 +9,+11,+13	
A	Harmonic Major b5	b5	b6, b5	#1,#5,b3	C#,G#,Eb		Dom7 xxx b9,b11,b13	Dim7 Min+7 b9,+11,13	xxx 9,+11,+13		Dim7 Dom7+5 +9,+11,+13			Dim7 b9,11,bb13	Maj7b5 9,11,b13		Dom7b5/Dim7 Min7b5 9,b11,13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: E

	Relative to:	C# Harm Min	E Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
E	Major +5+13	#1	#5,#6	#4,x1,#5 #2,#7	F#,Cx,G# D#,B#	Dim7 9,b11,b13		Dom7b5 xxx b9,b11,bb13	Min+7b5 b9,11,13	Aug7 9,11,+13		xxx 9,+11,13		Dom7 b9,+11,b13	xxx +9,+11,13		
C#	Relative Double Harmonic Minor	#4	#5,#2	x4,#1,#5 #2,#7	Fx,C#,G# D#,B#	Minbb7 b9,b11,b13	Min+7 9,+11,b13		Dom7b5 b9,11,13	Aug7 +9,11,13			xxx b9,11,b13	Maj7 b9,11,b13	Maj7 +9,+11,+13		
C#	Relative Harmonic Major	#3	#5,#1	#4,#1,#5 #2,#7,#3	F#,C#,G# D#,B#,E#	Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13		
C#	Relative Dominant's Relative Jazz Minor	#6	#5,#4	#4,#1,#5 #2,#7,#6	F#,C#,G# D#,B#,A#	Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13	
C#	Relative Harmonic Minor		#5	#4,#1,#5 #2,#7	F#,C#,G# D#,B#	Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13		
E	Major	b7		#4,#1,#5,#2	F#,C#,G#,D#		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13
A	Relative Subdominant Maj +9	b2	#5,b7	#4,#1,#5,#7	F#,C#,G#,B#	xxx b9,b11,b13	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13		
E	Jazz Minor +5	b5	#5,b3	#4,#1,#2,#7	F#,C#,D#,B#	Dim7 b9,b11,bb13	xxx 9,11,b13		Dim7 Min7b5 b9,11,13	xxx 9,11,13		Dim7 Min7 b9,+11,13	xxx 9,+11,13		Dim7 Dom7 +9,+11,13		
E	Major b9+5	b4	#5,b2	#1,#5,#2,#7	C#,G#,D#,B#	xxx b9,b11,b13	Maj7 Min+7 9,b11,b13		Min7b5 b9,11,13	Aug7 b9,11,13	Dom7 Aug7 +9,++11,+13			Maj6 b9,11,b13	Maj7 +9,+11,b13		
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: E

	Relative to:	F# Jazz Min.	E Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
F#	Relative Jazz Minor +13	#6	#1,#7	#4,#1,#5 x2,#3	F#,C#,G# Dx,E#		Dom7 +9,11,b13			xxx b9,b11,bb13	Min+7b5 b9,b11,b13	Min+7 9,11,+13		xxx b9,11,13	Maj7 Aug7 9,++11,13		xxx 9,+11,13
F#	Relative Jazz Minor +5	#5	#1,#6	#4,x1,#5 #2,#3	F#,Cx,G# D#,E#			Dom7 Dim7 b9,b11,bb13	Min+7b5 9,11,b13		Dom7b5/Dim7 Min7b5 b9,b11,13	xxx 9,11,13		Dim7 Min7 b9,+11,13	xxx 9,+11,13		Dim7 Dom7 +9,+11,13
C#	Relative Harmonic Major	#4	#1,#5	#4,#1,#5 #2,#3,#7	F#,C#,G# D#,E#,B#	Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13		
C#	Whole Tone	#1	#1,#2	x4,#1,#5 #2,#3	Fx,C#,G# D#,E#		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13
F#	Relative Dominant's Relative Dominant Major	#3	#1,#4	#4,#1,#5 #2,#3,#6	F#,C#,G# D#,E#,A#		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13
F#	Relative Jazz Minor		#1	#4,#1,#5 #2,#3	F#,C#,G# D#,E#		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13
E	Major	b7		#4,#1,#5,#2	F#,C#,G#,D#		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13
F#	Relative SubDominant's Relative Harm Minor	b6	#1,b7	#4,#1,#5,#3	F#,C#,G#,E#		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13
B	Whole Tone	b2	#1,b3	#4,#1,#2,#3	F#,C#,D#,E#		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13		Dom7b5 Dom7 9,+11,b13
F#	Relative Jazz Minor b5	b5	#1,b6	#4,#5,#2,#3	F#,G#,D#,E#	Dim7 Aug7 +9,+11,13			Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13	Dim7 Minb5+7 9,+11,b13		Dom7 b9,+11,13
F#	Relative Jazz Minor b11	b4	#1,b5	#4,#1,#5 #2,#3,b7	F#,C#,G# D#,E#,Bb		xxx 9,11,b13		Min7b5 9,11,b13		xxx b9,b11,b13	Maj7 Min+7 9,b11,13		xxx b9,11,13	Aug7 b9,+11,13	xxx +9,++11,+13	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: E

	Relative to:	B Major	E Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
B	Relative Dominant Major +13	#6	#4,#3	#4,#1,#5 #2,#6	F#,C#,G# D#,A#		xxx		Min7 b9,+11,b13	xxx		Dom7 +9,11,13			xxx	Min+7b5 b9,11,b13	Dom7 Maj7 9,11,+13
B	Relative Dominant Major +9	#2	#4,#6	#4,#1,#5 #2,#6	F#,C#,G# D#,A#			xxx	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13
G#	Relative Dominant's Relative Harmonic Minor	#5	#4,#2	#4,#1,#5 #2,#6	F#,C#,G# D#,A#		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13	Aug7 9,11,13
C#	Relative Dominant's Relative Jazz Minor	#1	#4,#5	#4,#1,#5 #2,#6,#7	F#,C#,G# D#,A#,B#	Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13	
F#	Relative Dominant's Relative Dominant Major	#4	#4,#1	#4,#1,#5 #2,#6,#3	F#,C#,G# D#,A#,E#		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13
B	Relative Dominant Major		#4	#4,#1,#5 #2,#6	F#,C#,G# D#,A#		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13
E	Major	b7		#4,#1,#5,#2	F#,C#,G#,D#		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13
B	Relative Dominant Jazz Minor	b3	#4,b7	#4,#1,#5,#6	F#,C#,G#,A#		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13
B	Relative Dominant Harmonic Major	b6	#4,b3	#4,#1,#2,#6	F#,C#,D#,A#		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13
B	Relative Dominant Major b9	b2	#4,b6	#4,#5,#2,#6	F#,G#,D#,A#	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13
B	Relative Dominant Major b5	b5	#4,b2	#1,#5,#2,#6	C#,G#,D#,A#		Min7 9,b11,13		xxx	Maj7 b9,+11,13	xxx			Minbb7 9,11,b13		Min7b5 b9,11,bb13	Maj7b5 9,11,13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: E

	Relative to:	E major	E Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
E	Major +13	#6	#6	#4,x1,#5,#2	F#,Cx,G#,D#			xxx	Min+7b5 b9,11,b13	Dom7 Maj7 9,11,+13		xxx		Min7 b9,+11,b13	xxx		Dom7 +9,11,13
E	Major +9	#2	#2	x4,#1,#5,#2	Fx,C#,G#,D#		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13
C#	Relative Harmonic Minor	#5	#5	#4,#1,#5 #2,#7	F#,C#,G# D#,B#	Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13		
F#	Relative Jazz Minor	#1	#1	#4,#1,#5 #2,#3	F#,C#,G# D#,E#		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13
B	Relative Dominant Major	#4	#4	#4,#1,#5 #2,#6	F#,C#,G# D#,A#		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13
E	Major			#4,#1,#5,#2	F#,C#,G#,D#		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13
A	Relative Sub-Dominant Major	b7	b7	#4,#1,#5	F#,C#,G#		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13
E	Jazz Minor	b3	b3	#4,#1,#2	F#,C#,D#		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13
E	Harmonic Major	b6	b6	#4,#5,#2	F#,G#,D#	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13
E	Major b9	b2	b2	#1,#5,#2	C#,G#,D#		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13
E	Major b5	b5	b5	#4,#1,#5 #2,b7	F#,C#,G# D#,Bb		Minbb7 9,11,b13		Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13		xxx	Maj7 b9,+11,13	xxx	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: E

	Relative to:	A Major	E Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
A	Relative Sub-Dominant Maj+13	#6	b7,#2	x4,#1,#5	Fx,C#,G#		Min7 b9,+11,b13	xxx		Dom7 +9,11,13			xxx	Min+7b5 b9,11,b13	Dom7 Maj7 9,11,+13		xxx
G#	Relative Sub-Dominant Maj+9	#2	b7,#5	#4,#1,#5,#7	F#,C#,G#,B#	xxx	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13		
F#	Relative Harmonic Minor	#5	b7,#1	#4,#1,#5,#3	F#,C#,G#,E#		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13	Aug7 9,11,13		Dim7 Min7 9,+11,13
B	Relative Subdominant's Relative Jazz minor	#1	b7,#4	#4,#1,#5,#6	F#,C#,G#,A#		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13
E	Major	#4		#4,#1,#5,#2	F#,C#,G#,D#		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13
A	Relative Sub-Dominant Major		b7	#4,#1,#5	F#,C#,G#		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13
D	Relative Sub-Dominant's Relative Sub-Dominant Major	b7	b7,b3	#4,#1	F#,C#		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13
A	Relative Sub-Dominant Jazz Minor	b3	b7,b6	#4,#5	F#,G#	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13
A	Relative Sub-Dominant Harmonic Major	b6	b7,b2	#1,#5	C#,G#		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13
A	Relative Sub-Dominant Major b9	b2	b7,b5	#4,#1,#5,b7	F#,C#,G#,Bb		Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13	
A	Relative Sub-Dominant Majb5	b5	b7,b1	#4,#1,#5,b3	F#,C#,G#,Eb		xxx	Maj7 b9,+11,13	xxx			Minbb7 9,11,b13		Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: E

	Relative to:	E Jazz Min.	E Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
E	Jazz Minor +13	#6	b3, #6	#4,x1,#2	F#,Cx,D#			xxx b9,b11,bb13	Min+7b5 b9,b11,b13	Min+7 9,11,+13		xxx b9,11,13	xxx 9,++11,13		xxx 9,+11,13		Dom7 +9,11,b13
E	Jazz Minor +5	#5	b3, #5	#4,#1,#2,#7	F#,C#,D#,B#	Dim7 b9,b11,bb13	xxx 9,11,b13		Dim7 Min7b5 b9,11,13	xxx 9,11,13		Dim7 Min7 b9,+11,13	xxx 9,+11,13		Dim7 Dom7 +9,+11,13		
B	Whole Tone	#1	b3, #1	#4,#1,#2,#3	F#,C#,D#,E#				Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 9,+11,13		Dom7b5 Dom7 9,+11,b13
B	Relative Dominant Harmonic Major	#4	b3,#4	#4,#1,#2,#6	F#,C#,D#,A#		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13
E	Major	#3		#4,#1,#5,#2	F#,C#,G#,D#		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13
E	Jazz Minor		b3	#4,#1,#2	F#,C#,D#		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13
D	Relative Sub-Dominant's Relative Sub-Dominant Major	b7	b3, b7	#4,#1	F#,C#		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13
E	Harmonic Minor	b6	b3, b6	#4,#2	F#,D#	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13
A	Whole Tone	b2	b3, b2	#1,#2	C#,D#		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,b13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13
E	Jazz Minor b5	b5	b3, b5	#4,#1,#2,b7	F#,C#,D#,Bb		Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13	Dim7 xxx 9,+11,13		Dom7 b9,+11,13	Dim7 xxx +9,+11,13	
E	Jazz Minor b11	b4	b3, b4	#4,#1,#2,b6	F#,C#,G#,Ab		Min7b5 9,11,bb13		Min7bb5 b9,b11,b13	Maj7 Min+7 9,b11,13		xxx b9,11,13	Aug7 b9,+11,13	xxx +9,++11,+13			Maj6 9,11,b13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: E

	Relative to:	E Harm. Maj	E Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
E	Harmonic Major +9	#2	b6, #2	x4,#5,#2	Fx,G#,D#	Aug7 +9,+11,13			xxx b9,11,b13	Maj7 +9,11,b13			xxx b9,b11,b13	Min+7 b9,b11,b13	Min+7 9,+11,+13		Dom7+5 b9,11,13
F#	Relative Jazz Minor b5	#1	b6, #1	#4,#5,#2,#3	F#,G#,D#,E#	Dim7 Aug7 +9,+11,13			Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13	Dim7 Minb5+7 9,+11,b13		Dom7 b9,+11,13
B	Relative Dominant Major b9	#4	b6, #4	#4,#5,#2,#6	F#,G#,D#,A#	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13
E	Major	#6		#4,#1,#5,#2	F#,C#,G#,D#		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13
E	Harmonic Major		b6	#4,#5,#2	F#,G#,D#	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13
A	Relative Sub-Dominant Jazz Minor	b7	b6, b7	#4,#5	F#,G#	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13
E	Harmonic Minor	b3	b6,b3	#4,#2	F#,D#	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13
A	Relative Sub-Dominant Double Harmonic Minor	b2	b6, b2	#5,#2	G#,D#	Aug7 +9,11,+13			xxx b9,11,b13	Maj7 b9,11,b13	Maj7 +9,+11,+13			Min6 b9,b11,b13	Min+7 9,+11,b13		Dom7b5 b9,11,13
E	Harmonic Major b5	b5	b6, b5	#4,#5,#2,b7	F#,G#,D#,Bb	Dim7 Dom7+5 +9,+11,+13			Dim7 b9,11,bb13	Maj7b5 9,11,b13		Dom7b5/Dim7 Min7b5 9,b11,13		Dom7 xxx b9,b11,b13	Dim7 Min+7 b9,+11,13	xxx 9,+11,+13	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: B

	Relative to:	G# Harm Min	B Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
B	Major +5+13	#1	#5,#6	x4,#1,x5 #2,#6	Fx,C#,Gx D#,A#		xxx 9,+11,13		Dom7 b9,+11,b13	xxx +9,+11,13			Dim7 9,b11,b13		Dom7b5 xxx b9,b11,bb13	Min+7b5 b9,11,13	Aug7 9,11,+13
G#	Relative Double Harmonic Minor	#4	#5,#2	x4,x1,#5 #2,#6	Fx,Cx,G# D#,A#			xxx b9,11,b13	Maj7 b9,11,b13	Maj7 +9,+11,+13			Minbb7 b9,b11,b13	Min+7 9,+11,b13		Dom7b5 b9,11,13	Aug7 +9,11,13
G#	Relative Harmonic Major	#3	#5,#1	x4,#1,#5 #2,#6,#7	Fx,C#,G# D#,A#,B#	Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13	
G#	Relative Dominant's Relative Jazz Minor	#6	#5,#4	x4,#1,#5 #2,#6,#3	Fx,C#,G# D#,A#,E#		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13
G#	Relative Harmonic Minor		#5	x4,#1,#5 #2,#6	Fx,C#,G# D#,A#		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13
B	Major	b7		#4,#1,#5 #2,#6	F#,C#,G# D#,A#		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13
E	Relative Subdominant Maj +9	b2	#5,b7	x4,#1,#5,#2	Fx,C#,G#,D#		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx b9,b11,b13	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13
B	Jazz Minor +5	b5	#5,b3	x4,#1,#5,#6	Fx,C#,G#,A#		Dim7 Min7 b9,+11,13	xxx 9,+11,13		Dim7 Dom7 +9,+11,13			Dim7 b9,b11,bb13	xxx 9,11,b13		Dim7 Min7b5 b9,11,13	xxx 9,11,13
B	Major b9+5	b4	#5,b2	x4,#5,#2,#6	Fx,G#,D#,A#	Dom7 Aug7 +9,+11,+13			Maj6 b9,11,b13	Maj7 +9,+11,b13			xxx b9,b11,b13	Maj7 Min+7 9,b11,b13		Min7b5 b9,11,13	Aug7 b9,11,13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: B

	Relative to:	G# Jazz Min.	B Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
G#	Relative Jazz Minor +13	#6	#1,#7	x4,#1,#5 #2,#6,x3	Fx,C#,G# D#,A#,E#		xxx 9,+11,13		Dom7 +9,11,b13			xxx b9,b11,bb13	Min+7b5 b9,b11,b13	Min+7 9,11,+13		xxx b9,11,13	Maj7 Aug7 9,++11,13
G#	Relative Jazz Minor +5	#5	#1,#6	x4,#1,#5 x2,#6,#3	Fx,C#,G# Dx,A#,E#		Dim7 Dom7 +9,+11,13			Dom7 Dim7 b9,b11,bb13	Min+7b5 9,11,b13		Dom7b5/Dim7 Min7b5 b9,b11,13	xxx 9,11,13		Dim7 Min7 b9,+11,13	xxx 9,+11,13
D#	Relative Harmonic Major	#4	#1,#5	x4,x1,#5 #2,#6,#3	Fx,Cx,G# D#,A#,E#			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13
D#	Whole Tone	#1	#1,#2	x4,#1,x5 #2,#6,#3	Fx,C#,Gx D#,A#,E#		Dom7b5 Dom7+5 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13
G#	Relative Dominant's Relative Dominant Major	#3	#1,#4	x4,#1,#5,#2 #6,#3,#7	Fx,C#,G#,D# A#,E#,B#	Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13	
G#	Relative Jazz Minor		#1	x4,#1,#5 #2,#6,#3	Fx,C#,G# D#,A#,E#		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13
F#	Major	b7		#4,#1,#5 #2,#6,#3	F#,C#,G# D#,A#,E#		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13
G#	Relative SubDominant's Relative Harm Minor	b6	#1,b7	x4,#1,#5 #2,#6	Fx,C#,G# D#,A#		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13
C#	Whole Tone	b2	#1,b3	x4,#1,#5 #2,#3	Fx,C#,G# D#,E#		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13
G#	Relative Jazz Minor b5	b5	#1,b6	x4,#1,#5 #6,#3	Fx,C#,G# A#,E#		Dom7 b9,+11,13	Dim7 Aug7 +9,+11,13			Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13	Dim7 Minb5+7 9,+11,b13
G#	Relative Jazz Minor b11	b4	#1,b5	x4,#5,#2 #6,#3	Fx,G#,D# A#,E#	xxx +9,++11,+13			xxx 9,11,b13		Min7b5 9,11,b13		xxx b9,b11,b13	Maj7 Min+7 9,b11,13		xxx b9,11,13	Aug7 b9,+11,13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: B

	Relative to:	F# Major	B Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
F#	Relative Dominant Major +13	#6	#4,#3	#4,#1,#5 x2,#6,#3	F#,C#,G# Dx,A#,E#		Dom7 +9,11,13			xxx	Min+7b5 b9,11,b13	Dom7 Maj7 9,11,+13		xxx		Min7 b9,+11,b13	xxx
F#	Relative Dominant Major +9	#2	#4,#6	#4,#1,x5 #2,#6,#3	F#,C#,Gx D#,A#,E#		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13
D#	Relative Dominant's Relative Harmonic Minor	#5	#4,#2	#4,x1,#5 #2,#6,#3	F#,Cx,G# D#,A#,E#			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13
G#	Relative Dominant's Relative Jazz Minor	#1	#4,#5	x4,#1,#5 #2,#6,#3	Fx,C#,G# D#,A#,E#		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,b13	Aug7 9,+11,13
C#	Relative Dominant's Relative Dominant Major	#4	#4,#1	#4,#1,#5,#2 #6,#3,#7	F#,C#,G#,D# A#,E#,B#	Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13	
F#	Relative Dominant Major		#4	#4,#1,#5 #2,#6,#3	F#,C#,G# D#,A#,E#		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13
B	Major	b7		#4,#1,#5 #2,#6	F#,C#,G# D#,A#		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13			Dom7 9,11,13	Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13
F#	Relative Dominant Jazz Minor	b3	#4,b7	#4,#1,#5 #2,#3	F#,C#,G# D#,E#		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13
F#	Relative Dominant Harmonic Major	b6	#4,b3	#4,#1,#5 #6,#3	F#,C#,G# A#,E#		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13
F#	Relative Dominant Major b9	b2	#4,b6	#4,#1,#2 #6,#3	F#,C#,D# A#,E#		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13
F#	Relative Dominant Major b5	b5	#4,b2	#4,#5,#2 #6,#3	F#,G#,D# A#,E#	xxx			Minbb7 9,11,b13		Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13		xxx	Maj7 b9,+11,13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: B

	Relative to:	B major	B Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
B	Major +13	#6	#6	#4,#1,x5 #2,#6	F#,C#,Gx D#,A#		xxx		Min7 b9,+11,b13	xxx		Dom7 +9,11,13			xxx	Min+7b5 b9,11,b13	Dom7 Maj7 9,11,+13
B	Major +9	#2	#2	#4,x1,#5 #2,#6	F#,Cx,G# D#,A#			xxx	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13
G#	Relative Harmonic Minor	#5	#5	x4,#1,#5 #2,#6	Fx,C#,G# D#,A#		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13	Aug7 9,11,13
C#	Relative Jazz Minor	#1	#1	#4,#1,#5 #2,#6,#7	F#,C#,G# D#,A#,B#	Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13	
F#	Relative Dominant Major	#4	#4	#4,#1,#5 #2,#6,#3	F#,C#,G# D#,A#,E#		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13
B	Major			#4,#1,#5 #2,#6	F#,C#,G# D#,A#		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13
E	Relative Sub-Dominant Major	b7	b7	#4,#1,#5,#2	F#,C#,G#,D#		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13
B	Jazz Minor	b3	b3	#4,#1,#5,#6	F#,C#,G#,A#		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 b9,b11,b13	Min+7 9,11,13
B	Harmonic Major	b6	b6	#4,#1,#2,#6	F#,C#,D#,A#		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13
B	Major b9	b2	b2	#4,#5,#2,#6	F#,G#,D#,A#	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13
B	Major b5	b5	b5	#1,#5,#2,#6	C#,G#,D#,A#		Min7 9,b11,13		xxx	Maj7 b9,+11,13	xxx			Minbb7 9,11,b13		Min7b5 b9,11,bb13	Maj7b5 9,11,13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: B

	Relative to:	E Major	B Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
E	Relative Sub-Dominant Maj+13	#6	b7,#2	#4,x1,#5,#2	F#,Cx,G#,D#			xxx	Min+7b5 b9,11,b13	Dom7 Maj7 9,11,+13		xxx		Min7 b9,+11,b13	xxx		Dom7 +9,11,13
D#	Relative Sub-Dominant Maj+9	#2	b7,#5	x4,#1,#5,#2	Fx,C#,G#,D#		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13
C#	Relative Harmonic Minor	#5	b7,#1	#4,#1,#5 #2,#7	F#,C#,G# D#,B#	Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13		
F#	Relative Subdominant's Relative Jazz minor	#1	b7,#4	#4,#1,#5 #2,#3	F#,C#,G# D#,E#		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13
B	Major	#4		#4,#1,#5 #2,#6	F#,C#,G# D#,A#		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13
E	Relative Sub-Dominant Major		b7	#4,#1,#5,#2	F#,C#,G#,D#		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13
A	Relative Sub-Dominant's Relative Sub-Dominant Major	b7	b7,b3	#4,#1,#5	F#,C#,G#		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13
E	Relative Sub-Dominant Jazz Minor	b3	b7,b6	#4,#1,#2	F#,C#,D#		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13
E	Relative Sub-Dominant Harmonic Major	b6	b7,b2	#4,#5,#2	F#,G#,D#	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13
E	Relative Sub-Dominant Major b9	b2	b7,b5	#1,#5,#2	C#,G#,D#		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13
E	Relative Sub-Dominant Majb5	b5	b7,b1	#4,#1,#5 #2,b7	F#,C#,G# D#,Bb		Minbb7 9,11,b13		Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13		xxx	Maj7 b9,+11,13	xxx	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: B

	Relative to:	E Jazz Min.	B Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
B	Jazz Minor +13	#6	b3, #6	#4,#1,x5,#6	F#,C#,Gx,A#		xxx b9,11,13	xxx 9,++11,13		xxx 9,+11,13		Dom7 +9,11,b13			xxx b9,b11,bb13	Min+7b5 b9,b11,b13	Min+7 9,11,+13
B	Jazz Minor +5	#5	b3, #5	x4,#1,#5,#6	Fx,C#,G#,A#		Dim7 Min7 b9,+11,13	xxx 9,+11,13		Dim7 Dom7 +9,+11,13			Dim7 b9,b11,bb13	xxx 9,11,b13		Dim7 Min7b5 b9,11,13	xxx 9,11,13
F#	Whole Tone	#1	b3, #1	#4,#1,#5 #6,#7	F#,C#,G# A#,B#	Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13	
F#	Relative Dominant Harmonic Major	#4	b3,#4	#4,#1,#5 #6,#3	F#,C#,G# A#,E#		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13
B	Major	#3		#4,#1,#5 #2,#6	F#,C#,G# D#,A#		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13
B	Jazz Minor		b3	#4,#1,#5,#6	F#,C#,G#,A#		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13
A	Relative Sub-Dominant's Relative Sub-Dominant Major	b7	b3, b7	#4,#1,#5	F#,C#,G#		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13
B	Harmonic Minor	b6	b3, b6	#4,#1,#6	F#,C#,A#		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13
E	Whole Tone	b2	b3, b2	#4,#5,#6	F#,G#,A#	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,b13	Min+7 b9,11,13
B	Jazz Minor b5	b5	b3, b5	#4,#1,#5,#6	F#,C#,G#,A#		Dom7 Min7 b9,b11,13	Dim7 xxx 9,+11,13		Dom7 b9,+11,13	Dim7 xxx +9,+11,13			Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13
B	Jazz Minor b11	b4	b3, b4	#1,#5,#6	C#,G#,A#		xxx b9,11,13	Aug7 b9,+11,13	xxx +9,++11,+13			Maj6 9,11,b13		Min7b5 9,11,bb13		Min7bb5 b9,b11,b13	Maj7 Min+7 9,b11,13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: B

	Relative to:	B Harm. Maj	B Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
B	Harmonic Major +9	#2	b6, #2	#4,x1,#2,#6	F#,Cx,D#,A#			xxx b9,b11,b13	Min+7 b9,b11,b13	Min+7 9,+11,+13		Dom7+5 b9,11,13	Aug7 +9,+11,+13			xxx b9,11,b13	Maj7 +9,11,b13
C#	Relative Jazz Minor b5	#1	b6, #1	#4,#1,#2 #6,#7	F#,C#,D# A#,B#	Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13	Dim7 Minb5+7 9,+11,b13		Dom7 b9,+11,13	Dim7 Aug7 +9,+11,13			Dim7 9,11,b13	
F#	Relative Dominant Major b9	#4	b6, #4	#4,#1,#2 #6,#3	F#,C#,D# A#,E#		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13
B	Major	#6		#4,#1,#5 #2,#6	F#,C#,G# D#,A#		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13
B	Harmonic Major		b6	#4,#1,#2,#6	F#,C#,D#,A#		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13
E	Relative Sub-Dominant Jazz Minor	b7	b6, b7	#4,#1,#2	F#,C#,D#		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13
B	Harmonic Minor	b3	b6,b3	#4,#1,#6	F#,C#,A#		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13
E	Relative Sub-Dominant Double Harmonic Minor	b2	b6, b2	#4,#2,#6	F#,D#,A#	Maj7 +9,+11,+13			Min6 b9,b11,b13	Min+7 9,+11,b13		Dom7b5 b9,11,13	Aug7 +9,11,+13			xxx b9,11,b13	Maj7 b9,11,b13
B	Harmonic Major b5	b5	b6, b5	#1,#2,#6	C#,D#,A#		Dom7b5/Dim7 Min7b5 9,b11,13		Dom7 xxx b9,b11,b13	Dim7 Min+7 b9,+11,13	xxx 9,+11,+13		Dim7 Dom7+5 +9,+11,+13			Dim7 b9,11,bb13	Maj7b5 9,11,b13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: F#

	Relative to:	D# Harm Min	F# Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
F#	Major +5+13	#1	#5,#6	#4,x1,#5 #2,#6,#3	F#,Cx,G# D#,A#,E#			Dim7 9,b11,b13		Dom7b5 xxx b9,b11,bb13	Min+7b5 b9,11,13	Aug7 9,11,+13		xxx 9,+11,13		Dom7 b9,+11,b13	xxx +9,+11,13
D#	Relative Double Harmonic Minor	#4	#5,#2	#4,x1,x5 #2,#6,#3	F#,Cx,Gx D#,A#,E#			Minbb7 b9,b11,b13	Min+7 9,+11,b13		Dom7b5 b9,11,13	Aug7 +9,11,13			xxx b9,11,b13	Maj7 b9,11,b13	Maj7 +9,+11,+13
D#	Relative Harmonic Major	#3	#5,#1	x4,x1,#5 #2,#6,#3	Fx,Cx,G# D#,A#,E#			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13
D#	Relative Dominant's Relative Jazz Minor	#6	#5,#4	#4,x1,#5,#2 #6,#3,#7	F#,Cx,G#,D# A#,E#,B#	Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13	
D#	Relative Harmonic Minor		#5	#4,x1,#5 #2,#6,#3	F#,Cx,G# D#,A#,E#			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13
F#	Major	b7		#4,#1,#5 #2,#6,#3	F#,Cx,G# D#,A#,E#		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13
B	Relative Subdominant Maj +9	b2	#5,b7	#4,x1,#5 #2,#6	F#,Cx,G# D#,A#			xxx b9,b11,b13	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13
F#	Jazz Minor +5	b5	#5,b3	#4,x1,#5 #2,#3	F#,Cx,G# D#,E#			Dim7 b9,b11,bb13	xxx 9,11,b13		Dim7 Min7b5 b9,11,13	xxx 9,11,13		Dim7 Min7 b9,+11,13	xxx 9,+11,13		Dim7 Dom7 +9,+11,13
F#	Major b9+5	b4	#5,b2	#4,x1,#2 #6,#3	F#,Cx,D# A#,E#			xxx b9,b11,b13	Maj7 Min+7 9,b11,b13		Min7b5 b9,11,13	Aug7 b9,11,13	Dom7 Aug7 +9,+11,+13			Maj6 b9,11,b13	Maj7 +9,+11,b13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: F#

	Relative to:	G# Jazz Min.	F# Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
G#	Relative Jazz Minor +13	#6	#1,#7	x4,#1,#5 #2,#6,x3	Fx,C#,G# D#,A#,Ex		xxx 9,+11,13		Dom7 +9,11,b13			xxx b9,b11,bb13	Min+7b5 b9,b11,b13	Min+7 9,11,+13		xxx b9,11,13	Maj7 Aug7 9,++11,13
G#	Relative Jazz Minor +5	#5	#1,#6	x4,#1,#5 x2,#6,#3	Fx,C#,G# Dx,A#,E#		Dim7 Dom7 +9,+11,13			Dom7 Dim7 b9,b11,bb13	Min+7b5 9,11,b13		Dom7b5/Dim7 Min7b5 b9,b11,13	xxx 9,11,13		Dim7 Min7 b9,+11,13	xxx 9,+11,13
D#	Relative Harmonic Major	#4	#1,#5	x4,x1,#5 #2,#6,#3	Fx,Cx,G# D#,A#,E#			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13
D#	Whole Tone	#1	#1,#2	x4,#1,x5 #2,#6,#3	Fx,C#,Gx D#,A#,E#		Dom7b5 Dom7+5 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13
G#	Relative Dominant's Relative Dominant Major	#3	#1,#4	x4,#1,#5,#2 #6,#3,#7	Fx,C#,G#,D# A#,E#,B#	Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13	
G#	Relative Jazz Minor		#1	x4,#1,#5 #2,#6,#3	Fx,C#,G# D#,A#,E#		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13
F#	Major	b7		#4,#1,#5 #2,#6,#3	F#,C#,G# D#,A#,E#		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13
G#	Relative SubDominant's Relative Harm Minor	b6	#1,b7	x4,#1,#5 #2,#6	Fx,C#,G# D#,A#		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13
C#	Whole Tone	b2	#1,b3	x4,#1,#5 #2,#3	Fx,C#,G# D#,E#		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13
G#	Relative Jazz Minor b5	b5	#1,b6	x4,#1,#5 #6,#3	Fx,C#,G# A#,E#		Dom7 b9,+11,13	Dim7 Aug7 +9,+11,13			Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13	Dim7 Minb5+7 9,+11,b13
G#	Relative Jazz Minor b11	b4	#1,b5	x4,#5,#2 #6,#3	Fx,G#,D# A#,E#	xxx +9,++11,+13			xxx 9,11,b13		Min7b5 9,11,b13		xxx b9,b11,b13	Maj7 Min+7 9,b11,13		xxx b9,11,13	Aug7 b9,+11,13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: F#

	Relative to:	C# Major	F# Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
C#	Relative Dominant Major +13	#6	#4,#3	#4,#1,#5,#2 #6,#3,#7	F#,C#,G#,D# A#,E#,B#	Min7b5 b9,11,b13	Dom7 Maj7 9,11,+13		xxx		Min7 b9,+11,b13	xxx		Dom7 +9,11,13			xxx
C#	Relative Dominant Major +9	#2	#4,#6	#4,#1,#5,x2 #6,#3,#7	F#,C#,G#,Dx A#,E#,B#	Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13	
A#	Relative Dominant's Relative Harmonic Minor	#5	#4,#2	#4,#1,x5,#2 #6,#3,#7	F#,C#,Gx,D# A#,E#,B#	Dim7 Min7b5 b9,11,b13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13	
D#	Relative Dominant's Relative Jazz Minor	#1	#4,#5	#4,x1,#5,#2 #6,#3,#7	F#,Cx,G#,D# A#,E#,B#	Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13	
G#	Relative Dominant's Relative Dominant Major	#4	#4,#1	x4,#1,#5,#2 #6,#3,#7	Fx,C#,G#,D# A#,E#,B#	Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13	
C#	Relative Dominant Major		#4	#4,#1,#5,#2 #6,#3,#7	F#,C#,G#,D# A#,E#,B#	Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13	
F#	Major	b7		#4,#1,#5 #2,#6,#3	F#,C#,G# D#,A#,E#		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13
C#	Relative Dominant Jazz Minor	b3	#4,b7	#4,#1,#5 #2,#6,#7	F#,C#,G# D#,A#,B#	Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13	
C#	Relative Dominant Harmonic Major	b6	#4,b3	#4,#1,#5 #2,#3,#7	F#,C#,G# D#,E#,B#	Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13		
C#	Relative Dominant Major b9	b2	#4,b6	#4,#1,#5 #6,#3,#7	F#,C#,G# A#,E#,B#	xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13	
C#	Relative Dominant Major b5	b5	#4,b2	#4,#1,#2 #6,#3,#7	F#,C#,D# A#,E#,B#	Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13		xxx	Maj7 b9,+11,13	xxx			Minbb7 9,11,b13	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: F#

	Relative to:	F# major	F# Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
F#	Major +13	#6	#6	#4,#1,#5 #2,#6,#3	F#,C#,G# D#,A#,E#		Dom7 +9,11,13			xxx	Min+7b5 b9,11,b13	Dom7 Maj7 9,11,+13		xxx		Min7 b9,+11,b13	xxx
F#	Major +9	#2	#2	#4,#1,x5 #2,#6,#3	F#,C#,Gx D#,A#,E#		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13
D#	Relative Harmonic Minor	#5	#5	#4,x1,#5 #2,#6,#3	F#,Cx,G# D#,A#,E#			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13
G#	Relative Jazz Minor	#1	#1	x4,#1,#5 #2,#6,#3	Fx,C#,G# D#,A#,E#		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13
C#	Relative Dominant Major	#4	#4	#4,#1,#5,#2 #6,#3,#7	F#,C#,G#,D# A#,E#,B#	Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13	
F#	Major			#4,#1,#5 #2,#6,#3	F#,C#,G# D#,A#,E#		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13
B	Relative Sub-Dominant Major	b7	b7	#4,#1,#5 #2,#6	F#,C#,G# D#,A#		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13
F#	Jazz Minor	b3	b3	#4,#1,#5 #2,#3	F#,C#,G# D#,E#		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13
F#	Harmonic Major	b6	b6	#4,#1,#5 #6,#3	F#,C#,G# A#,E#		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Maj7 9,+11,13
F#	Major b9	b2	b2	#4,#1,#2 #6,#3	F#,C#,D# A#,E#		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13
F#	Major b5	b5	b5	#4,#5 #2,#6,#3	F#,G# D#,A#,E#	xxx			Minbb7 9,11,b13		Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13		xxx	Maj7 b9,+11,13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: F#

	Relative to:	B Major	F# Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
B	Relative Sub-Dominant Maj+13	#6	b7,#2	#4,#1,x5 #2,#6	F#,C#,Gx D#,A#		xxx		Min7 b9,+11,b13	xxx		Dom7 +9,+11,13			xxx	Min+7b5 b9,11,b13	Dom7 Maj7 9,11,+13
A#	Relative Sub-Dominant Maj+9	#2	b7,#5	#4,x1,#5 #2,#6	F#,C#,G# D#,A#			xxx	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13
G#	Relative Harmonic Minor	#5	b7,#1	x4,#1,#5 #2,#6	Fx,C#,G# D#,A#		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13	Aug7 9,11,13
C#	Relative Subdominant's Relative Jazz minor	#1	b7,#4	#4,#1,#5 #2,#6,#7	F#,C#,G# D#,A#,B#	Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13	
F#	Major	#4		#4,#1,#5 #2,#6,#3	F#,C#,G# D#,A#,E#		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13
B	Relative Sub-Dominant Major		b7	#4,#1,#5 #2,#6	F#,C#,G# D#,A#		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13
E	Relative Sub-Dominant's Relative Sub-Dominant Major	b7	b7,b3	#4,#1,#5,#2	F#,C#,G#,D#		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13
B	Relative Sub-Dominant Jazz Minor	b3	b7,b6	#4,#1,#5,#6	F#,C#,G#,A#		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 b9,b11,b13	Min+7 9,11,13
B	Relative Sub-Dominant Harmonic Major	b6	b7,b2	#4,#1,#2,#6	F#,C#,D#,A#		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13
B	Relative Sub-Dominant Major b9	b2	b7,b5	#4,#5,#2,#6	F#,G#,D#,A#	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13
B	Relative Sub-Dominant Majb5	b5	b7,b1	#1,#5,#2,#6	C#,G#,D#,A#		Min7 9,b11,13		xxx	Maj7 b9,+11,13	xxx			Minbb7 9,11,b13		Min7b5 b9,11,bb13	Maj7b5 9,11,13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: F#

	Relative to:	F# Jazz Min.	F# Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
F#	Jazz Minor +13	#6	b3, #6	#4, #1, #5 x2, #3	F#, C#, G# D#, E#		Dom7 +9, 11, b13			xxx b9, b11, bb13	Min+7b5 b9, b11, b13	Min+7 9, 11, +13		xxx b9, 11, 13	xxx 9, +11, 13		xxx 9, +11, 13
F#	Jazz Minor +5	#5	b3, #5	#4, x1, #5 #2, #3	F#, C#, G# D#, E#			Dim7 b9, b11, bb13	xxx 9, 11, b13		Dim7 Min7b5 b9, 11, 13	xxx 9, 11, 13		Dim7 Min7 b9, +11, 13	xxx 9, +11, 13		Dim7 Dom7 +9, +11, 13
C#	Whole Tone	#1	b3, #1	x4, #1, #5 #2, #3	F#, C#, G# D#, E#		Dom7b5 Dom7 9, +11, b13		Dom7b5 9, 11, b13		Dom7b5 Min7b5 9, b11, b13		Dom7b5 xxx b9, b11, 13	Min+7 b9, 11, 13	Dom7b5 Aug7 9, +11, +13		Dom7b5 9, +11, 13
C#	Relative Dominant Harmonic Major	#4	b3, #4	#4, #1, #5 #2, #3, #7	F#, C#, G# D#, E#, B#		Dim7 b9, 11, b13	Maj7 9, 11, b13		Dim7 Min7b5 9, 11, 13	Dom7 Min7 b9, b11, b13	Dim7 Min+7 9, +11, 13		Dom7 b9, 11, 13	Dim7 Aug7 +9, +11, +13		
F#	Major	#3		#4, #1, #5 #2, #6, #3	F#, C#, G# D#, A#, E#		Dom7 9, 11, 13		Min7 9, 11, b13		Min7b5 b9, 11, b13	Maj7 9, 11, 13		Min7 9, 11, 13		Min7 b9, 11, b13	Maj7 9, +11, 13
F#	Jazz Minor		b3	#4, #1, #5 #2, #3	F#, C#, G# D#, E#		Dom7 9, 11, b13		Min7b5 9, 11, b13		Dom7b5 Min7b5 b9, b11, b13	Min+7 9, 11, 13		Min7 b9, 11, 13	Aug7 9, +11, 13		Dom7 9, +11, 13
E	Relative Sub-Dominant's Relative Sub-Dominant Major	b7	b3, b7	#4, #1, #5, #2	F#, C#, G#, D#		Min7 9, 11, b13		Min7b5 b9, 11, b13	Maj7 9, 11, 13		Min7 9, 11, 13		Min7 b9, 11, b13	Maj7 9, +11, 13		Dom7 9, 11, 13
F#	Harmonic Minor	b6	b3, b6	#4, #1, #5, #3	F#, C#, G#, E#		Dom7 b9, 11, b13	Dim7 Maj7 +9, +11, 13			Dim7 b9, b11, b13	Min+7 9, 11, b13		Dim7 Min7b5 b9, 11, 13	Aug7 9, 11, 13		Dim7 Min7 9, +11, 13
B	Whole Tone	b2	b3, b2	#4, #1, #2, #3	F#, C#, D#, E#		Dom7b5 9, 11, b13		Dom7b5 Min7b5 9, b11, b13		Dom7b5 xxx b9, b11, b13	Min+7 b9, 11, 13	Dom7b5 Aug7 9, +11, +13		Dom7b5 Dom7+5 9, +11, 13		Dom7b5 Dom7 9, +11, b13
F#	Jazz Minor b5	b5	b3, b5	#4, #5, #2, #3	F#, G#, D#, E#		Dim7 xxx +9, +11, 13		Dim7 9, 11, b13		Dom7b5, Dom7 Min7b5 b9, b11, bb13	Dim7 Min+7b5 9, 11, 13		Dom7 Min7 b9, b11, 13	Dim7 xxx 9, +11, 13		Dom7 b9, +11, 13
F#	Jazz Minor b11	b4	b3, b4	#4, #1, #5 #2, #3, b7	F#, C#, G# D#, E#, Bb			Maj6 9, 11, b13		Min7b5 9, 11, bb13	Min7bb5 b9, b11, b13	Maj7 Min+7 9, b11, 13		xxx b9, 11, 13	Aug7 b9, +11, 13	xxx +9, +11, +13	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: F#

	Relative to:	F# Harm. Maj	F# Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
F#	Harmonic Major +9	#2	b6, #2	#4, #1, x5 #6, #3	F#, C#, Gx A#, E#		Dom7+5 b9, 11, 13	Aug7 +9, ++11, 13			xxx b9, 11, b13	Maj7 +9, 11, b13			xxx b9, b11, b13	Min+7 b9, b11, b13	Min+7 9, +11, +13
G#	Relative Jazz Minor b5	#1	b6, #1	x4, #1, #5 #6, #3	Fx, C#, G# A#, E#		Dom7 b9, +11, 13	Dim7 Aug7 +9, +11, 13			Dim7 9, 11, b13		Dom7b5, Dom7 Min7b5 b9, b11, bb13	Dim7 Min+7b5 9, 11, 13		Dom7 Min7 b9, b11, 13	Dim7 Minb5+7 9, +11, b13
C#	Relative Dominant Major b9	#4	b6, #4	#4, #1, #5 #6, #3, #7	F#, C#, G# A#, E#, B#	xxx b9, 11, b13	Maj7 b9, 11, 13	Dom7+5 Aug7 +9, +11, +13			Minbb7 b9, 11, b13	Maj7 9, +11, b13		Dom7b5 9, 11, 13		Min7 9, b11, b13	
F#	Major	#6		#4, #1, #5 #2, #6, #3	F#, C#, G# D#, A#, E#		Dom7 9, 11, 13		Min7 9, 11, b13		Min7b5 b9, 11, b13	Maj7 9, 11, 13		Min7 9, 11, 13		Min7 b9, 11, b13	Maj7 9, +11, 13
F#	Harmonic Major		b6	#4, #1, #5 #6, #3	F#, C#, G# A#, E#		Dom7 b9, 11, 13	Dim7 Aug7 +9, +11, +13			Dim7 b9, 11, b13	Maj7 9, 11, b13		Dim7 Min7b5 9, 11, 13		Dom7 Min7 b9, b11, b13	Dim7 Min+7 9, +11, 13
B	Relative Sub-Dominant Jazz Minor	b7	b6, b7	#4, #1, #5, #6	F#, C#, G#, A#		Min7 b9, 11, 13	Aug7 9, +11, 13		Dom7 9, +11, 13		Dom7 9, 11, b13		Min7b5 9, 11, b13		Dom7b5 b9, b11, b13	Min+7 9, 11, 13
F#	Harmonic Minor	b3	b6, b3	#4, #1, #5, #3	F#, C#, G#, E#		Dom7 b9, 11, b13	Dim7 Maj7 +9, +11, 13			Dim7 b9, b11, b13	Min+7 9, 11, b13		Dim7 Min7b5 b9, 11, 13	Aug7 9, 11, 13		Dim7 Min7 9, +11, 13
B	Relative Sub-Dominant Double Harmonic Minor	b2	b6, b2	#4, #1, #6, #3	F#, C#, A#, E#		Dom7b5 b9, 11, 13	Aug7 +9, 11, +13			xxx b9, 11, b13	Maj7 b9, 11, b13	Maj7 +9, +11, +13			Min6 b9, b11, b13	Min+7 9, +11, b13
F#	Harmonic Major b5	b5	b6, b5	#4, #5, #6, #3	F#, G#, A#, E#	xxx 9, +11, +13		Dim7 Dom7+5 +9, +11, +13			Dim7 b9, 11, bb13	Maj7b5 9, 11, b13		Dom7b5/Dim7 Min7b5 9, b11, 13		Dom7 xxx b9, b11, b13	Dim7 Min+7 b9, +11, 13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: C#

	Relative to:	A# Harm Min	C# Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
C#	Major +5+13	#1	#5,#6	#4,#1,x5,#2 x6,#3,#7	F#,C#,Gx,D# A#,E#,B#	Min+7b5 b9,11,13	Aug7 9,11,+13			xxx 9,+11,13	Dom7 b9,+11,b13	xxx +9,+11,13			Dim7 9,b11,b13	A#/Bb	Dom7b5 xxx b9,b11,bb13
A#	Relative Double Harmonic Minor	#4	#5,#2	#4,#1,x5,x2 #6,#3,#7	F#,C#,Gx,Dx A#,E#,B#	Dom7b5 b9,11,13	Aug7 +9,11,13			xxx b9,11,b13	Maj7 b9,11,b13	Maj7 +9,+11,+13			Minbb7 b9,b11,b13	Min+7 9,+11,b13	
A#	Relative Harmonic Major	#3	#5,#1	#4,x1,x5,#2 #6,#3,#7	F#,Cx,Gx,D# A#,E#,B#	Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13			Dim7 b9,11,b13	Maj7 9,11,b13	
A#	Relative Dominant's Relative Jazz Minor	#6	#5,#4	x4,#1,x5,#2 #6,#3,#7	Fx,C#,Gx,D# A#,E#,B#	Min7 b9,11,13	Aug7 9,+11,13			Dom7 9,+11,13	Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13	
A#	Relative Harmonic Minor		#5	#4,#1,x5,#2 #6,#3,#7	F#,C#,Gx,D# A#,E#,B#	Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13	
C#	Major	b7		#4,#1,#5,#2 #6,#3,#7	F#,C#,G#,D# A#,E#,B#	Min7b5 b9,11,b13	Maj7 9,11,13			Min7 9,11,13	Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13	
F#	Relative Subdominant Maj +9	b2	#5,b7	#4,#1,x5,#2 #6,#3	F#,C#,Gx,D# A#,E#		Dom7+5 9,11,13			Min7 9,+11,b13	Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx b9,b11,b13	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13
C#	Jazz Minor +5	b5	#5,b3	#4,#1,x5,#2 #6,#7	F#,C#,Gx,D# A#,B#	Dim7 Min7b5 b9,11,13	xxx 9,11,13		Dim7 Min7 b9,+11,13	xxx 9,+11,13		Dim7 Dom7 +9,+11,13			Dim7 b9,b11,bb13	xxx 9,11,b13	
C#	Major b9+5	b4	#5,b2	#4,#1,x5,#6 #3,#7	F#,C#,Gx,A# E#,B#	Min7b5 b9,11,13	Aug7 b9,11,13	Dom7 Aug7 +9,++11,+13			Maj6 b9,11,b13	Maj7 +9,+11,b13			xxx b9,b11,b13	Maj7 Min+7 9,b11,b13	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: C#

	Relative to:	D# Jazz Min.	C# Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
D#	Relative Jazz Minor +13	#6	#1,#7	#4,x1,#5,#2 #6,#3,#7	F#,Cx,G#,D# A#,E#,Bx		xxx b9,b11,bb13	Min+7b5 b9,b11,b13	Min+7 9,11,+13		xxx b9,11,13	Maj7 Aug7 9,++11,13		xxx 9,+11,13		Dom7 +9,11,b13	
D#	Relative Jazz Minor +5	#5	#1,#6	#4,x1,#5,#2 x6,#3,#7	F#,Cx,G#,D# Ax,E#,B#	Min+7b5 9,11,b13		Dom7b5/Dim7 Min7b5 b9,b11,13	xxx 9,11,13		Dim7 Min7 b9,+11,13	xxx 9,+11,13		Dim7 Dom7 +9,+11,13			Dom7 Dim7 b9,b11,bb13
A#	Relative Harmonic Major	#4	#1,#5	x4,x1,#5,#2 #6,x3,#7	Fx,Cx,G#,D# A#,E#,B#	Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,13			Dim7 b9,11,b13	Maj7 9,11,b13	
A#	Whole Tone	#1	#1,#2	#4,x1,#5,x2 #6,#3,#7	F#,Cx,G#,Dx A#,E#,B#	Dom7b5 9,11,b13		Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13		Dom7b5 Dom7 9,+11,b13	
D#	Relative Dominant's Relative Dominant Major	#3	#1,#4	#4,x1,#5,#2 #6,x3,#7	F#,Cx,G#,D# A#,Ex,B#	Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13	
D#	Relative Jazz Minor		#1	#4,x1,#5,#2 #6,#3,#7	F#,Cx,G#,D# A#,E#,B#	Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13	
C#	Major	b7		#4,#1,#5,#2 #6,#3,#7	F#,C#,G#,D# A#,E#,B#	Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13	
D#	Relative SubDominant's Relative Harm Minor	b6	#1,b7	#4,x1,#5,#2 #6,#3	F#,Cx,G#,D# A#,E#			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13
G#	Whole Tone	b2	#1,b3	#4,x1,#5,#2 #6,#7	F#,Cx,G#,D# A#,B#	Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13		Dom7b5 9,+11,b13		Dom7b5 9,11,b13	
D#	Relative Jazz Minor b5	b5	#1,b6	#4,x1,#5,#2 #3,#7	F#,Cx,G#,D# E#,B#	Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13	Dim7 Minb5+7 9,+11,b13		Dom7 b9,+11,13	Dim7 Aug7 +9,+11,13		
D#	Relative Jazz Minor b11	b4	#1,b5	#4,x1,#2 #6,#3,#7	F#,Cx,D# A#,E#,B#	Min7b5 9,11,b13		xxx b9,b11,b13	Maj7 Min+7 9,b11,13		xxx b9,11,13	Aug7 b9,+11,13	xxx +9,++11,+13			xxx 9,11,b13	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: C#

	Relative to:	G# Major	C# Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
G#	Relative Dominant Major +13	#6	#4,#3	x4,#1,#5,#2 #6,x3,#7	Fx,C#,G#,D# A#,Ex,B#	Min7 b9,11,b13	xxx		Dom7 +9,11,13			xxx	Min+7b5 b9,11,b13	Dom7 Maj7 9,11,+13		xxx	
G#	Relative Dominant Major +9	#2	#4,#6	x4,#1,#5,#2 x6,#3,#7	Fx,C#,G#,D# A#,E#,B#	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx
E#	Relative Dominant's Relative Harmonic Minor	#5	#4,#2	x4,#1,#5,x2 #6,#3,#7	Fx,C#,G#,Dx A#,E#,B#	Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13	Aug7 9,11,13		Dim7 Min7 9,+11,13	
A#	Relative Dominant's Relative Jazz Minor	#1	#4,#5	x4,#1,x5,#2 #6,#3,#7	Fx,C#,Gx,D# A#,E#,B#	Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13	
D#	Relative Dominant's Relative Dominant Major	#4	#4,#1	x4,x1,#5,#2 #6,#3,#7	Fx,Cx,G#,D# A#,E#,B#	Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13	
G#	Relative Dominant Major		#4	x4,#1,#5,#2 #6,#3,#7	Fx,C#,G#,D# A#,E#,B#	Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13	
C#	Major	b7		#4,#1,#5,#2 #6,#3,#7	F#,C#,G#,D# A#,E#,B#	Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13	
G#	Relative Dominant Jazz Minor	b3	#4,b7	x4,#1,#5,#2 #6,#3	Fx,C#,G#,D# A#,E#		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13
G#	Relative Dominant Harmonic Major	b6	#4,b3	x4,#1,#5,#2 #6,#7	Fx,C#,G#,D# A#,B#	Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13	
G#	Relative Dominant Major b9	b2	#4,b6	x4,#1,#5,#2 #3,#7	Fx,C#,G#,D# E#,B#	Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13		
G#	Relative Dominant Major b5	b5	#4,b2	x4,#1,#5 #6,#3,#7	Fx,C#,G# A#,E#,B#	xxx	Maj7 b9,+11,13	xxx			Minbb7 9,11,b13		Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: C#

	Relative to:	C# major	C# Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
C#	Major +13	#6	#6	#4,#1,#5,#2 #6,#3,#7	F#,C#,G#,D# A#,E#,B#	Min+7b5 b9,11,b13	Dom7 Maj7 9,11,+13		xxx		Min7 b9,+11,b13	xxx		Dom7 +9,11,13		A#/Bb	xxx
C#	Major +9	#2	#2	#4,#1,#5,x2 #6,#3,#7	F#,C#,G#,Dx A#,E#,B#	Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13		Dom7+5 9,11,13		Min7 9,+11,b13	
A#	Relative Harmonic Minor	#5	#5	#4,#1,x5,#2 #6,#3,#7	F#,C#,Gx,D# A#,E#,B#	Dim7 Min7b5 b9,11,b13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13			Dim7 b9,b11,b13	Min+7 9,11,b13	
D#	Relative Jazz Minor	#1	#1	#4,x1,#5,#2 #6,#3,#7	F#,Cx,G#,D# A#,E#,B#	Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13	
G#	Relative Dominant Major	#4	#4	x4,#1,#5,#2 #6,#3,#7	Fx,C#,G#,D# A#,E#,B#	Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13	
C#	Major			#4,#1,#5,#2 #6,#3,#7	F#,C#,G#,D# A#,E#,B#	Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13	
F#	Relative Sub-Dominant Major	b7	b7	#4,#1,#5 #2,#6,#3	F#,C#,G# D#,A#,E#		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13
C#	Jazz Minor	b3	b3	#4,#1,#5 #2,#6,#7	F#,C#,G# D#,A#,B#	Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13	
C#	Harmonic Major	b6	b6	#4,#1,#5 #2,#3,#7	F#,C#,G# D#,E#,B#	Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13		
C#	Major b9	b2	b2	#4,#1,#5 #6,#3,#7	F#,C#,G# A#,E#,B#	xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13	
C#	Major b5	b5	b5	#4,#1,#2 #6,#3,#7	F#,C#,D# A#,E#,B#	Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13		xxx	Maj7 b9,+11,13	xxx			Minbb7 9,11,b13	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: C#

	Relative to:	F# Major	C# Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
F#	Relative Sub-Dominant Maj+13	#6	b7,#2	#4,#1,#5 #2,#6,#3	F#,C#,G# D#,A#,E#		Dom7 +9,11,13			xxx	Min+7b5 b9,11,b13	Dom7 Maj7 9,11,+13		xxx		Min7 b9,+11,b13	xxx
E#	Relative Sub-Dominant Maj+9	#2	b7,#5	#4,#1,x5 #2,#6,#3	F#,C#,Gx D#,A#,E#		Dom7+5 9,11,13		Min7 9,+11,b13		Dom7b5 b9,11,b13	Maj7 +9,11,13			xxx	Min+7 b9,11,b13	Dom7 Maj7 9,+11,+13
D#	Relative Harmonic Minor	#5	b7,#1	#4,x1,#5 #2,#6,#3	F#,Cx,G# D#,A#,E#			Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,b13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13
G#	Relative Subdominant's Relative Jazz minor	#1	b7,#4	x4,#1,#5 #2,#6,#3	Fx,C#,G# D#,A#,E#		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13
C#	Major	#4		#4,#1,#5,#2 #6,#3,#7	F#,C#,G#,D# A#,E#,B#	Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13	
F#	Relative Sub-Dominant Major		b7	#4,#1,#5 #2,#6,#3	F#,C#,G# D#,A#,E#		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13
B	Relative Sub-Dominant's Relative Sub-Dominant Major	b7	b7,b3	#4,#1,#5 #2,#6	F#,C#,G# D#,A#		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13
F#	Relative Sub-Dominant Jazz Minor	b3	b7,b6	#4,#1,#5 #2,#3	F#,C#,G# D#,E#		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13
F#	Relative Sub-Dominant Harmonic Major	b6	b7,b2	#4,#1,#5 #6,#3	F#,C#,G# A#,E#		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13
F#	Relative Sub-Dominant Major b9	b2	b7,b5	#4,#1,#2 #6,#3	F#,C#,D# A#,E#		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13			Minbb7 b9,11,b13	Maj7 9,+11,b13
F#	Relative Sub-Dominant Majb5	b5	b7,b1	#4,#5 #2,#6,#3	F#,G# D#,A#,E#	xxx			Minbb7 9,11,b13		Min7b5 b9,11,bb13	Maj7b5 9,11,13		Min7 9,b11,13		xxx	Maj7 b9,+11,13
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: C#

	Relative to:	C# Jazz Min.	C# Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
C#	Jazz Minor +13	#6	b3, #6	#4,#1,#5,#2 x6,#7	F#,C#,G#,D# A#,B#	Min+7b5 b9,b11,b13	Min+7 9,11,+13		xxx b9,11,13	xxx 9,++11,13		xxx 9,+11,13		Dom7 +9,11,b13			xxx b9,b11,bb13
C#	Jazz Minor +5	#5	b3, #5	#4,#1,x5,#2 #6,#7	F#,C#,Gx,D# A#,B#	Dim7 Min7b5 b9,11,13	xxx 9,11,13		Dim7 Min7 b9,+11,13	xxx 9,+11,13		Dim7 Dom7 +9,+11,13			Dim7 b9,b11,bb13	xxx 9,11,b13	
G#	Whole Tone	#1	b3, #1	#4,x1,#5,#2 #6,#7	F#,Cx,G#,D# A#,B#	Dom7b5 Min7b5 9,b11,b13		Dom7b5 xxx b9,b11,13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13	
G#	Relative Dominant Harmonic Major	#4	b3,#4	x4,#1,#5,#2 #6,#7	Fx,C#,G#,D# A#,B#	Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13			Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13	
C#	Major	#3		#4,#1,#5,#2 #6,#3,#7	F#,C#,G#,D# A#,E#,B#	Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13	
C#	Jazz Minor		b3	#4,#1,#5,#2 #6,#7	F#,C#,G#,D# A#,B#	Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13		Dom7 9,11,b13		Min7b5 9,11,b13	
B	Relative Sub-Dominant's Relative Sub-Dominant Major	b7	b3, b7	#4,#1,#5 #2,#6	F#,C#,G# D#,A#		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13		Min7b5 b9,11,b13	Maj7 9,11,13
C#	Harmonic Minor	b6	b3, b6	#4,#1,#5 #2,#7	F#,C#,G# D#,B#	Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13		
F#	Whole Tone	b2	b3, b2	#4,#1,#5 #6,#7	F#,C#,G# A#,B#	Dom7b5 xxx b9,b11,b13	Min+7 b9,11,13	Dom7b5 Aug7 9,+11,+13		Dom7b5 Dom7+5 9,+11,13		Dom7b5 Dom7 9,+11,b13		Dom7b5 9,11,b13		Dom7b5 9,b11,b13	
C#	Jazz Minor b5	b5	b3, b5	#4,#1,#2 #6,#7	F#,C#,D# A#,B#	Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13	Dim7 xxx 9,+11,13		Dom7 b9,+11,13	Dim7 xxx +9,+11,13		Dim7 9,11,b13		
C#	Jazz Minor b11	b4	b3, b4	#1,#5,#2 #6,#7	C#,G#,D# A#,B#	Min7bb5 b9,b11,b13	Maj7 Min+7 9,b11,13		xxx b9,11,13	Aug7 b9,+11,13	xxx +9,++11,+13			Maj6 9,11,b13		Min7b5 9,11,bb13	
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B

Second Order Alterations: C#

	Relative to:	C# Harm. Maj	C# Major	C Major		C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B
C#	Harmonic Major +9	#2	b6, #2	#4,#1,#5,x2 #3,#7	F#,C#,G#,Dx E#,B#	xxx b9,11,b13	Maj7 +9,11,b13			xxx b9,b11,b13	Min+7 b9,b11,b13	Min+7 9,+11,+13		Dom7+5 b9,11,13	Aug7 +9,+11,13		
D#	Relative Jazz Minor b5	#1	b6, #1	#4,x1,#5,#2 #3,#7	F#,Cx,G#,D# E#,B#	Dim7 9,11,b13		Dom7b5, Dom7 Min7b5 b9,b11,bb13	Dim7 Min+7b5 9,11,13		Dom7 Min7 b9,b11,13	Dim7 Minb5+7 9,+11,b13		Dom7 b9,+11,13	Dim7 Aug7 +9,+11,13		
G#	Relative Dominant Major b9	#4	b6, #4	x4,#1,#5,#2 #3,#7	Fx,C#,G#,D# E#,B#	Minbb7 b9,11,b13	Maj7 9,+11,b13		Dom7b5 9,11,13		Min7 9,b11,b13		xxx b9,11,b13	Maj7 b9,11,13	Dom7+5 Aug7 +9,+11,+13		
C#	Major	#6		#4,#1,#5,#2 #6,#3,#7	F#,C#,G#,D# A#,E#,B#	Min7b5 b9,11,b13	Maj7 9,11,13		Min7 9,11,13		Min7 b9,11,b13	Maj7 9,+11,13		Dom7 9,11,13		Min7 9,11,b13	
C#	Harmonic Major		b6	#4,#1,#5,#2 #3,#7	F#,C#,G#,D# E#,B#	Dim7 b9,11,b13	Maj7 9,11,b13		Dim7 Min7b5 9,11,13		Dom7 Min7 b9,b11,b13	Dim7 Min+7 9,+11,13		Dom7 b9,11,13	Dim7 Aug7 +9,+11,+13		
F#	Relative Sub-Dominant Jazz Minor	b7	b6, b7	#4,#1,#5 #2,#3	F#,C#,G# #2,E#		Dom7 9,11,b13		Min7b5 9,11,b13		Dom7b5 Min7b5 b9,b11,b13	Min+7 9,11,13		Min7 b9,11,13	Aug7 9,+11,13		Dom7 9,+11,13
C#	Harmonic Minor	b3	b6,b3	#4,#1,#5 #2,#7	F#,C#,G# D#,B#	Dim7 b9,b11,b13	Min+7 9,11,b13		Dim7 Min7b5 b9,11,13	Aug7 9,11,13		Dim7 Min7 9,+11,13		Dom7 b9,11,b13	Dim7 Maj7 +9,+11,13		
F#	Relative Sub-Dominant Double Harmonic Minor	b2	b6, b2	#4,#1,#5 #3,#7	F#,C#,G# E#,B#	xxx b9,11,b13	Maj7 b9,11,b13	Maj7 +9,+11,+13			Min6 b9,b11,b13	Min+7 9,+11,b13		Dom7b5 b9,11,13	Aug7 +9,11,+13		
C#	Harmonic Major b5	b5	b6, b5	#4,#1,#2 #3,#7	F#,C#,D# E#,B#	Dim7 b9,11,bb13	Maj7b5 9,11,b13		Dom7b5/Dim7 Min7b5 9,b11,13		Dom7 xxx b9,b11,b13	Dim7 Min+7 b9,+11,13	xxx 9,+11,+13		Dim7 Dom7+5 +9,+11,+13		
						C	C#/Db	D	D#/Eb	E	F	F#/Gb	G	G#/Ab	A	A#/Bb	B