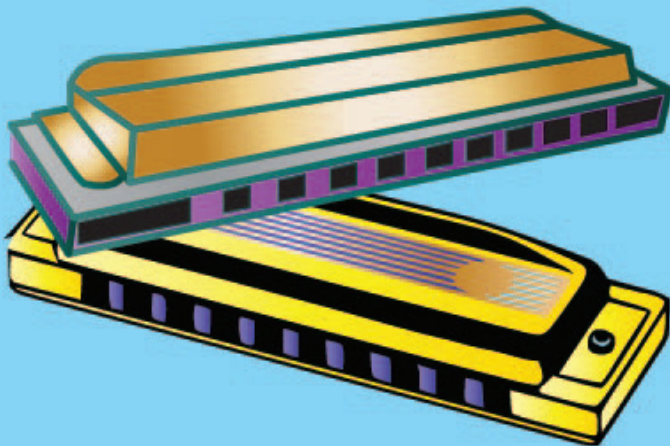


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HARMONICA REFERENCE NOTEBOOK



BY J.D. MCKAY

Harmonica Reference Notebook

By J.D. McKay

How to identify keys

Flat Keys

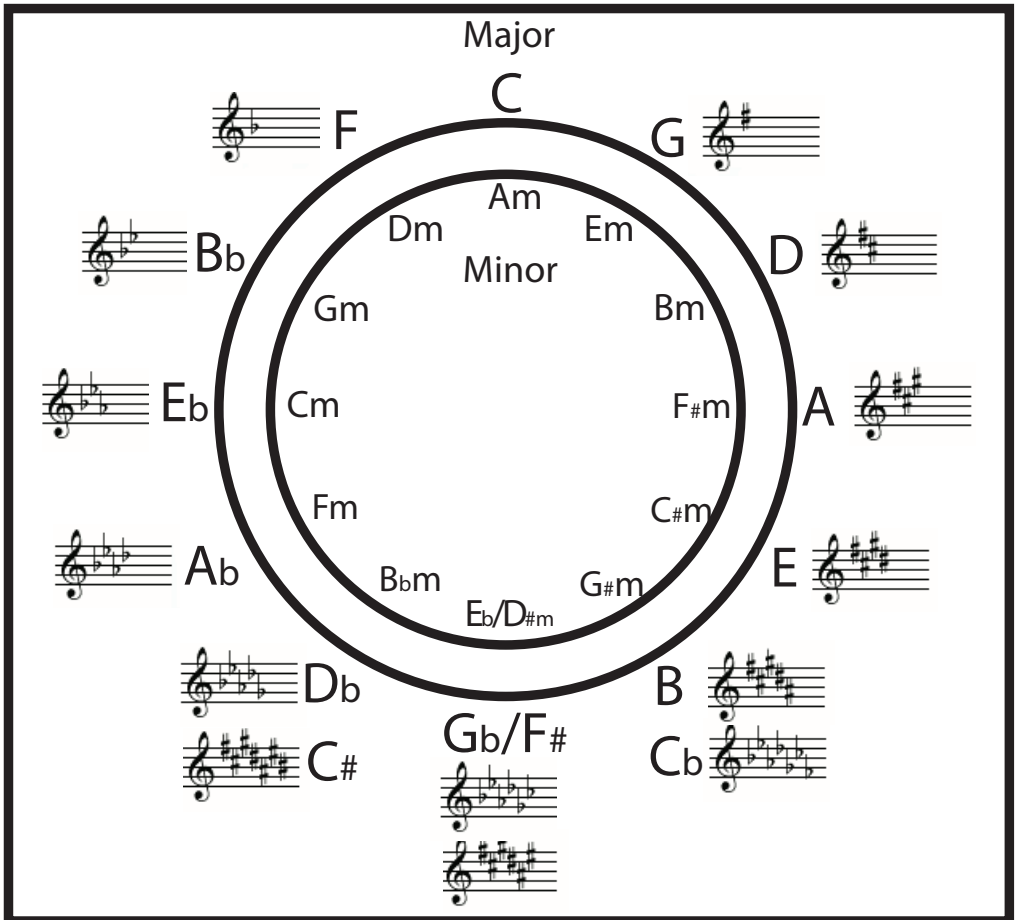
Read left to right. Find the letter name of the key, then go one more.
Key of E? A comes after E here, so the key of E has Bb, Eb, and , Ab!



Sharp Keys

Read this right to left. The key one step above the letter tells you the sharps.

E is one note above D, so the key of E has D#, G#, C#, and F#



HARMONICA POSITIONS CHART WITH MODES

HARMONICA KEY

Position	1st	2nd	3rd	4th	5th	6th	12th
Mode	Ionian	Mixolydian	Dorian	Aolian	Phrygian	Locrian	Lydian
C	C	G	D	A	E	B	F
G	G	D	A	E	B	F#/Gb	C
D	D	A	E	B	F#/Gb	Db	G
A	A	E	B	F#/Gb	Db	Ab	D
E	E	B	F#/Gb	Db	Ab	Eb	A
B	B	F#/Gb	Db	Ab	Eb	Bb	E
F#/Gb	F#/Gb	Db	Ab	Eb	Bb	F	B
Db	Db	Ab	Eb	Bb	F	C	F#/Gb
Ab	Ab	Eb	Bb	F	C	G	Db
Eb	Eb	Bb	F	C	G	D	Ab
Bb	Bb	F	C	G	D	A	Eb
F	F	C	G	D	A	E	Bb

MINOR TUNED
HARMONICA

Position	1st	2nd	3rd	4th
Abm	C#m	Abm	B	F#
Am	Dm	Am	C	G
Bbm	Ebm	Bbm	Db	Ab
Bm	Em	Bm	D	A
Cm	Fm	Cm	Eb	Bb
C#m	F#m	C#m	E	B
Dm	Gm	Dm	F	C
Ebm	Abm	Ebm	F#	Db
Em	Am	Em	G	D
Fm	Bbm	Fm	Ab	Eb
F#m	Bm	F#m	A	E
Gm	Cm	Gm	Bb	F

STANDARD CHORDS FOR EACH KEY

I	II ^m	III ^m	IV	V	VI ^m	VII*
C	D ^m	E ^m	F	G	A ^m	B
G	A ^m	B ^m	C	D	E ^m	F [#]
D	E ^m	F ^{#m}	G	A	B ^m	C [#]
A	B ^m	C ^{#m}	D	E	F ^{#m}	G [#]
E	F ^{#m}	G ^{#m}	A	B	C ^{#m}	D [#]
B	C ^{#m}	D ^{m#}	E	F [#]	G ^{#m}	A [#]
G ^b	A ^{bm}	B ^{bm}	C ^b	D ^b	E ^{bm}	F [#]
D ^b	E ^{bm}	F ^m	G ^b	A ^b	B ^{bm}	C
A ^b	B ^{bm}	C ^m	D ^b	E ^b	F ^m	G [#]
E ^b	F ^m	G ^m	A ^b	B ^b	C ^m	D
B ^b	C ^m	D ^{m#}	E ^b	F [#]	G ^m	A
F	G ^m	A ^m	B ^b	C	D ^m	E

SCALE INTERVALS

Scales	
Maj. Pentatonic	1, b3, 4, 5, b7
Min. Pentatonic	1,2,3,5,6
Blues	1, b3, 4, b5, 5, b7
Natural Minor	1, 2, b3, 4, 5, b6, b7, 8
Harmonic Minor	1, 2, b3, 4, 5, b6, 7, 8
Melodic Minor (up)	1, 2, b3, 4, 5, 6, 7, 8
Melodic Minor (down)	8, b7, b6, 5, 4, b3, 2, 1

Ionian	1 2 3 4 5 6 7
Dorian	1 2 b3 4 5 6 b7
Phrygian	1 b2 b3 4 5 b6 b7
Lydian	1 2 3 #4 5 6 7
Mixolydian	1 2 3 4 5 6 b7
Aeolian	1 2 b3 4 5 b6 b7
Locrian	1 b2 b3 4 b5 b6 b7

Ionian	W	W	H	W	W	W	H												
	Dorian	W	H	W	W	W	H	W											
		Phrygian	H	W	W	W	H	W	W										
			Lydian	W	W	W	H	W	W	H									
				Mixolydian	W	W	H	W	W	H	W								
					Aeolian	W	H	W	W	H	W	W							
						Locrian	H	W	W	H	W	W	W						

CHORD LAYOUTS

Richter

	I									
Blow	1	3	5	1	3	5	1	3	5	1
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	2	5	7	2	4	6	7	2	4	6
	V			VI sus2			II m			
	II m6				VII m7					
	II m			II m6						

Chords Paddy Richter

	VI m			I						
Blow	1	3	6	1	3	5	1	3	5	1
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	2	5	7	2	4	6	7	2	4	6
	V			VI sus2			II m			
	II m6				VII m7					
	II m			II m6						

Natural Minor

	I m									
Blow	1	b3	5	1	b3	5	1	b3	5	1
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	2	5	b7	2	4	6	b7	2	4	6
	V m			VI b5			II m			
	bVII				VII maj7					
	II M			bVII						

Harmonic Minor

	I m									
Blow	1	b3	5	1	b3	5	1	b3	5	1
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	2	5	7	2	4	b6	7	2	4	b6
	V			bVI m6			II m6			
	II m6				VII m6					
	II m6			II m6						

CHORD LAYOUTS

Country (Maj 7th)

	I									
Blow	1	3	5	1	3	5	1	3	5	1
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	2	5	7	2	#4	6	7	2	4	6
	V			VII7sus				IIIm		
	VIIIm/II6				VIIIm7					
	II				IIIm6					

Wilde

		I								VIm	
Blow	1	3	5	1	3	3	5	1	3	6	
Hole No.	1	2	3	4	5	2	3	4	9	10	
Draw	2	5	7	2	4	5	7	2	5	1	
	V			V7				Isus2/Vsus4			
	IIIm6			V							
	G7sus										

Powerdraw

		I						VIm7/I6sus		
Blow	1	3	5	1	3	5	6	1	3	6
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	2	5	7	2	4	6	7	2	5	1
	V			VI7sus				Isus2		
	IIIm6			VIIIm7						
	IIIm			V						

Powerbender

								VIm		
								IV		
				IIIm7						
	I			IIm						
Blow	1	3	5	1	2	4	6	1	3	6
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	2	5	7	2	3	5	7	2	5	1
	V			IIIIm				Isus2/Vsus4		
	IIIIsus7			V						
	IIIIm7			V						

RICHTER TUNED POSITIONS

Overblow

Blow Bend

										Bb
	Eb			Eb	Gb	Bb		Eb	Gb	B
Blow	C	E	G	C	E	G	C	E	G	C
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	D	G	B	D	F	A	B	D	F	A
	Db	Gb	Bb	Db		Ab	Db		Ab	Db
		F	A							
			Ab							

Draw Bend

Overdraw

1st

										b7
	b3			b3	#4	b7		b3	b5	7
Blow	1	3	5	1	3	5	1	3	5	1
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	2	5	7	2	4	6	7	2	4	6
	b2	b5	b7	b2		b6	#1		b6	#1
		4	6							
			b6							

2nd

										b3
	b6			b6	73	b3		b6	b1	3
Blow	4	6	1	4	6	1	4	6	1	4
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	5	1	3	5	b7	2	3	5	b7	2
	b5	7	b3	b5		b2	b5		b2	b5
		b7	2							
			b2							

RICHTER TUNED POSITIONS

3rd

										b6
	b2			b2	3	b6		b2	3	6
Blow	b7	2	4	b7	2	4	b7	2	4	b7
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	1	4	6	1	b3	5	6	1	b3	5
	7	3	b6	7		b5	7		b5	7
		b3	5							
			b5							

4th

										b2
	b5			b5	6	b2		b5	4	2
Blow	b3	5	b7	b3	5	b7	b3	5	b7	b3
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	4	b7	2	4	b6	1	2	4	b6	1
	3	6	b2	3		7	3		7	3
		b6	1							
			7							

5th

										b5
	7			7	6	b5		7	2	5
Blow	b6	1	b3	b6	1	b3	b6	1	b3	b6
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	b7	b3	5	b7	b2	4	5	b7	b2	4
	6	2	b5	6		3	6		3	6
		b2	4							
			3							

RICHTER TUNED POSITIONS

6th

										7
	3			3	5	7		3	5	1
Blow	b2	4	b6	b2	4	b6	b2	4	6b	b2
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	b3	b6	1	b3	b5	b7	1	b3	5b	b7
	2	5	7	2		6	2		6	2
		b5	b7							
			6							

12th

										4
	b7			b7	b2	b4		b7	b2	b5
Blow	5	5	2	5	7	2	5	7	2	5
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	6	2	4	6	1	3	b5	6	1	3
	b6	b2	b4	b6		b3	b6		b3	b6
		1	3							
			b4							

RICHTER - SCALES FOR POSITIONS

Notation Guide

- 3 = Blow 3rd hole
- 3 = Draw 3rd hole
- 3' = Half step draw bend on 3
- 3" = Whole step draw bend
- 3''' = 1.5 step draw bend
- 9' = blow bend 9th hole
- 4ob = 4 overblow
- 8od = 8 overdraw

Modal Scale

1	-1	2	-2"	-2	-3"	-3	-4	5	-5	6	-6	-7	7	-8	8	-9	9	-10	10'	10
---	----	---	-----	----	-----	----	----	---	----	---	----	----	---	----	---	----	---	-----	-----	----

1st Position

1st Major Scale

1	1	2	-2"	-2	-3"	-3	4
4	-4	5	-5	6	-6	-7	7
7	-8	8	-9	9	-10	10'	10

1st Natural Minor Scale

1	-1	1ob	-2"	-2	-3'''	-3'	4
4	-4	4ob	-5	6	-6'	6ob	7
7	-8	8'	-9	9	-9od	10"	10

1st Major Pentatonic

1	-1	2	-2	-3"	4
4	-4	5	6	-6	7
7	-8	8	9	-10	10

1st Minor Pentatonic

1	1ob	-2"	-2	-3'	4
4	4ob	-5	6	6ob	7
7	8'	-9	9	10"	10

1st Blues

1	1ob	-2"	-2'	-2	-3'	4
4	4ob	-5	5ob	6	6ob	7
7	8'	-9	9'	9	10"	10

2nd Position

2nd Major Scale

			1	-1	2	-2'	-2
-2	-3"	-3	4	-4	5	5ob	6
6	-6	-7	7	-8	8	9'	9
9	-10	10'	10				

2nd Natural Minor Scale

-2	-3"	-3'	4	-4	4ob	-5	6
6	-6	6ob	7	-8	8'	-8od	9
9	-10	10"	10				

2nd Major Pentatonic

-2	-3"	-3	-4	5	6
6	-6	-7	-8	-9	9

2nd Minor Pentatonic

-2	-3'	4	-4	-5	6
6	6ob	7	-8	-9	9

2nd Blues

-2	-3'	4	-4'	-4	-5	6
6	6ob	7	-7od	-8	-9	9

3rd Position

3rd Major Scale

-1	2	-2'	-2	-3"	-3	-4'	-4
-4	5	5ob	6	-6	-7	-7od	-8
-8	8	9'	9	-10	10'	10od	

3rd Natural Minor Scale

-1	2	-2"	-2	-3"	-3'	4	-4
-4	5	-5	6	-6	6ob	7	-8
-8	8	-8od	-9	9	-10	10"	10

3rd Major Pentatonic

-1	2	-2'	-2	-3"	-3
-4	5	-5	-6	-7	-8
-8	8	-9	9'	-10	

3rd Minor Pentatonic

1	-2"	-2	-3"	4	-4
-4	-5	6	-6	7	-8
-8	8	-9	-10		

3rd Blues

1	-2"	-2	-3'''	-3"	4	-4
-4	-5	6	-6'	-6	-7	-8
-8	-9	9	-9OD	-10	10	

4th Position

4th Major Scale

		-1'	-1	2	-2'	-3'''	-3''
-3''	-3	-4'	-4	5	5ob	-6'	-6
-6	-7	-7od	-8	8	9'	-9od	-10

4th Natural Minor Scale

		1	-1	2	-2''	-2	-3''
-3''	-3	4	-4	5	-5	6	-6
-6	-7	7	-8	8	-9	9	-10

4th Major Pentatonic

-3''	-3	-4'	5	5ob	-6
-6	-7	-7OD	8	9'	-10

4th Minor Pentatonic

-3''	4	-4	5	6	-6
-6	7	-8	8	9	-10

4th Blues

-3''	4	-4	4ob	5	6	-6
-6	7	-8	-8'	8	9	-10

5th Position

5th Major Scale

2	-2'	-3'''	-3''	-3	-4'	4ob	5
5	5ob	-6'	-6	-7od	-7	8'	8
8	9'	-9od	-10	10'	-10od		

5th Natural Minor Scale

2	-2'	-2	-3''	-3	4	-4	5
5	5ob	6	-6	7	-7	-8	8
8	9'	9	-10	10'	10		

5th Major Pentatonic

2	-2'	-3'''	-3	-4'	5
5	5ob	-6'	-7	-7od	8
8	9'	-9od	10'	-10od	

5th Minor Pentatonic

2	-2	-3	-3''	-4	5
5	6	-6	-7	-8	8
8	9	-10	10'		

5th Blues

2	-2	-3''	-3'	-3	-4	5
5	6	-6	6ob	-7	-8	8
8	9	-10	-10''	10'		

6th Position

6th Major Scale

	-1'	1ob	2	-2'	-3'''	-3'	-3
-3	-4'	4ob	5	5ob	-6'	6ob	-7
-7	-7od	8'	8	9'	-9od	10''	10'

6th Natural Minor Scale

	-1'	-1	2	-2'	-2	-3''	-3
-3	-4'	-4	5	5ob	6	-6	-7
-7	-7od	-8	8	9'	9	-10	10'

6th Major Pentatonic

	-1'	1ob	-2'	-3'''	-3
-3	-4'	3ob	5ob	-6'	-7
-7	-7od	8'	9'	-9od	10'

6th Minor Pentatonic

-3	-4	4ob	4	-6	-7
-7	-8	8	9'	-10	10'

6th Blues

-3	-4	4ob	-5	4	-6	-7
-7	-8	8	-9	9'	-10	10'

12th Position

12th Major Scale

		1	-1	2	-2''		
-2''	-2	-3''	-3'	4	-4	5	-5
-5	6	-6	6ob	7	-8	8	-9

12th Natural Minor Scale

-2''	-2	-3'''	-3'	4	-4'	4ob	-5
-5	6	-6'	6ob	7	-7od	8'	-9
-9	-9od	10''	10	-10od			

12th Major Pentatonic

-2''	-2	-3''	4	-4	-5
-5	6	-6	7	-8	-9
-9	-10	10			

12th Minor Pentatonic

-2''	-3'''	-3'	4	4ob	-5
-5	-6'	6ob	7	8'	-9
-9					

12th Blues

-2''	-3'''	-3'	-3	4	4ob	-5
-5	-6'	6ob	-7	7	8'	-9
-9						

Note Layouts Richter

Richter										Bb
C	Eb			Eb Gb Bb			Eb Gb			B
Blow	C	E	G	C	E	G	C	E	G	C
Hole	1	2	3	4	5	6	7	8	9	10
Draw	D	G	B	D	F	A	B	D	F	A
	Db	Gb	Bb	Db		Ab	Db		Ab	Db
		F	A							
			Ab							

F#										E
A	A C E			A C			A C			F
Blow	F#	A#	C#	F#	A#	C#	F#	A#	C#	F#
Hole	1	2	3	4	5	6	7	8	9	10
Draw	G#	C#	E#	G#	B	D#	E#	G#	B	D#A
	G	C	E	G		D#	G		D	G
		B	D#							
			D							

Db										B
E	E G B			E G			E G			C
Blow	Db	F	Ab	Db	F	Ab	Db	F	Ab	Db
Hole	1	2	3	4	5	6	7	8	9	10
Draw	Eb	Ab	C	Eb	Gb	Bb	C	Eb	Gb	Bb
	D	G	B	D		A	D		A	D
		F	A							
			Ab							

G										F
A#	A# C# F			A# C#			A# C#			F#
Blow	G	B	D	G	B	D	G	B	D	G
Hole	1	2	3	4	5	6	7	8	9	10
Draw	A	D	F#	A	C	E	F#	A	C	E
	G#	C#	F#	G#		D#	G#		D#	G#
		C	E							
			D#							

Db										C
F	F G# C			F# G#			F# G#			C#
Blow	D	F#	A	D	F#	A	D	F#	A	D
Hole	1	2	3	4	5	6	7	8	9	10
Draw	E	A	C#	E	G	B	C#	E	G	B
	D#	G#	C#	D#		A#	D#		A#	D#
		G	B							
			A#							

Ab										Gb
B	B D Gb			B D			B D			G
Blow	Ab	C	Eb	Ab	C	Eb	Ab	C	Eb	Ab
Hole	1	2	3	4	5	6	7	8	9	10
Draw	Bb	Eb	G	Bb	Db	F	G	Bb	Db	F
	A	D	Gb	A		E	A		E	A
		Db	F							
			E							

Eb										Db
Gb	Gb A C#			Gb A			Gb A			D
Blow	Eb	G	Bb	Eb	G	Bb	Eb	G	Bb	Eb
Hole	1	2	3	4	5	6	7	8	9	10
Draw	F	Bb	D	F	Ab	C	D	F	Bb	C
	Eb	A	Db	E		B	E		B	E
		Ab	C							
			B							

A										G#
C	C D# G			C D#			C D#			G#
Blow	A	C#	E	A	C#	E	F#	A	C#	F#
Hole	1	2	3	4	5	6	7	8	9	10
Draw	B	E	G#	B	D	F#	G#	B	E	A
	A#	D#	G	A#		F	A#		F	A#
		D	F#							
			F							

E										Ab
G	G A# D			G A#			G A#			D#
Blow	E	G#	B	Eb	G#	B	E	G#	B	E
Hole	1	2	3	4	5	6	7	8	9	10
Draw	F#	B	D#	F#	A	C#	D#	F#	A#	C#
	F#	A#	D	F		C	F		C	F
		A	C#							
			C							

Bb										A
Db	Db E Ab			Db E			Db E			A#
Blow	Bb	D	F	Bb	D	F	Bb	D	F	Bb
Hole	1	2	3	4	5	6	7	8	9	10
Draw	C	F	A	C	Eb	G	A	C	Eb	G
	B	E	Ab	B		Gb	B		Gb	B
		Eb	G							
			Gb							

F										Eb
Ab	Ab B Eb			Ab B			Ab B			E
Blow	F	A	C	F	A	C	F	A	C	F
Hole	1	2	3	4	5	6	7	8	9	10
Draw	G	C	E	G	Bb	D	E	G	Bb	D
	Gb	B	Eb	Gb		Db	Gb		Db	Gb
		Bb	D							
			Db							

B										A#
D	D F A			D F			D F			A#
Blow	B	D#	F#	B	D#	F#	B	D#	F#	B
Hole	1	2	3	4	5	6	7	8	9	10
Draw	C#	F#	A#	C#	E	G#	A#	C#	E	G#
	C	F	A	C		G	C		G	C
		E	G#							
			A							
			G							

POWERDRAW

Blow	C	E	G	C	E	G	A	C	E	A
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	D	G	B	D	F	A	B	D	G	C
	Db	Gb	Bb	Db		Ab	Bb	Db	Gb	B
		F	A						F	Bb
			Ab							
	Draw Bend									

1st

Blow	1	3	5	1	3	5	6	1	3	6
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	2	5	7	2	4	6	7	2	5	1
	b2	b5	b7	b2		b6	b7	b2	b5	7
		4	6						4	b7
			b6							

2nd

Blow	4	6	1	4	6	1	2	4	6	2
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	5	1	3	5	b7	2	3	5	1	4
	b5	7	b3	b5		b2	b3	b5	7	3
		b7	2						b7	b3
			b2							

POWERDRAW

3rd

Blow	b7	2	4	b7	2	4	5	b7	2	5
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	1	4	6	1	b3	5	6	1	4	b7
	7	3	b6	7		b5	6b	7	3	6
		b3	5						b3	b6
			b5							

4th

Blow	b3	5	b7	b3	5	b7	1	b3	5	1
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	4	b7	2	4	b6	1	2	4	b7	b3
	3	6	b2	3		7	b2	3	6	2
		b6	1						b6	b2
			7							

5th

Blow	b6	1	b3	b6	1	b3	4	b6	1	4
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	b7	b3	5	b7	b2	4	5	b7	b3	b6
	6	2	b5	6		3	b5	6	2	5
		b2	4						b2	b5
			3							

POWERDRAW

6th

Blow	b2	4	b6	b2	4	b6	b7	b2	4	b7
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	b3	b6	1	b3	b5	b7	1	b3	b6	b2
	2	5	7	2		6	7	2	5	1
		b5	b7						b5	7
			6							

12th

Blow	5	7	2	5	7	2	3	5	7	3
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	6	2	b5	6	1	3	#4	6	2	5
	6b	b2	4	6b		b3	4	b6	b2	#4
		1	3						1	4
			b3							

POWERDRAW - SCALES FOR POSITIONS

Modal Scale

1	-1	2	-2"	-2	-3"	-3	4	-4	5	-5	6	-6	-7	8	-8	9	-9"	-9	10	-10'	-10
---	----	---	-----	----	-----	----	---	----	---	----	---	----	----	---	----	---	-----	----	----	------	-----

1st Position

1st Major

1	-1	2	-2"	-2	-3"	-3	4
4	-4	5	-5	6	-6	-7	8
8	-8	9	-9"	-9	10	-10'	-10

1st Natural Minor

1	-2	1ob	-2"	-2	-3"	-3'	4
4	-4	4ob	-5	6	-6'	-7'	8
8	-8	8ob	-9"	-9	9ob	-10"	-10

1st Major Pentatonic

1	-1	2	-2	-3"	4
4	-4	5	6	7	8
8	-8	9	-9	10	-10

1st Minor Pentatonic

1	1ob	-2"	-2	-3'	4
4	4ob	-5	6	-7	8
8	8ob	-9"	-9	10	-10"

1st Blues

1	1ob	-2"	-2'	-2	-3'	4
4	4ob	-5	5ob	6	-7	8
8	8ob	-9"	-9'	-9	10	-10"

2nd Position

2nd Major

		1	-1	2	-2"	-2	
-2	-3"	-3	4	-4	5	5ob	6
6	-6	-7	8	-8	9	-9'	-9
10	-10'	-10					

2nd Natural Minor

-2	-3"	-3'	4	-4	4ob	-5	6
6	-6	-7'	8	-8	8ob	-9"	-9
-9	10	-10"	-10				

2nd Major Pentatonic

-1	2	-2			
-2	-3"	-3	-4	5	6
6	-6	-7	-8	9	-9
-9	10	-10'			

2nd Minor Pentatonic

1	-1	-2'	-2		
-2	-3'	4	-4	-5	6
6	-7'	8	-8	-9"	-9
-9	-10"	-10			

2nd Blues

1	-1'	-1	-2"	-2		
-2	-3'	4	-4'	-4	-5	6
6	-7'	8	-8'	-8	-9"	-9
-9	-10"	-10				

3rd Position

3rd Major

-1	2	-2'	-2	-3"	-3	-4'	-4
-4	5	5ob	6	-6	-7	-8'	-8
-8	9	-9'	-9	10	-10'		

3rd Natural Minor

-1	2	-2"	-2	-3"	-3'	4	-4
-4	5	-5	6	-6	-7'	8	-8
-8	9	-9"	-9	10	-10"	-10	

3rd Major Pentatonic

-1	2	-2'	-3"	-3	-4		
-4	5	5ob	-6	-7	-8		
-8	9	-9'	10	-10'			

3rd Minor Pentatonic

-1	-2"	-2	-3"	4	-4		
-4	-5	6	7	8	-8		
-8	-9"	-9	10	-10			

3rd Blues

-1	-2"	-2	-3"	-3"	4	-4	
-4	-5	6	-6'	-6(7)	8	-8	
-8	-9"	-9	9ob	10	-10		

4th Position

4th Major

		-1'	-1	2	-2'	-3"	
-3"	-3	-4'	-4	5	5ob	-6'	-6
-6	-7	-8'	-8	9	-9'	9ob	10

4th Natural Minor

		1	-1	2	-2"	-2	-3"
-3"	-3	4	-4	5	-5	6	-6
-6	-7	8	-8	9	-9"	-9	10

4th Major Pentatonic

		-1'	-1	-3"			
-3"	-3	-4'	-4	5	-6		
-6	-7	-8'	9	-9'	10		

4th Minor Pentatonic

		1	-1	2	-2	-3"	
-3"	4	-4	5	6	7		
7	8	-8	9	-9	10		

4th Blues

		1	-1	1ob	2	-2	-3"
-3"	4	-4	4ob	5	6	7	
7	8	-8	9ob	9	-9	10	

POWERDRAW - SCALES FOR POSITIONS

5th Position

5th Major

2	-2'	-3'''	-3"	-3	-4'	4ob	5
5	5ob	-6'	-6	-7	-8'	8ob	9
9	-9'	9ob	10	-10'			

5th Natural Minor

2	-2'	-2	-3'''	-3	4	-4	5
5	5ob	6	-6	-7	8	-8	9
9	-9'	-9	10	-10'	-10		

5th Major Pentatonic

2	-2'	-3'''	-3	-4'	5
5	5ob	-6'	-7	-8'	9
9	-9'	9ob	-10'		

5th Minor Pentatonic

2	-2	-3'''	-3	-4	5
5	6	-6	-7	-8	9
9	-9	10	-10'		

5th Blues

2	-2	-3'''	-3'	-3	-4	5
5	6	-6	-7'	-7	-8	9
9	-9	10	-10''	-10'		

6th Position

6th Major

	-1'	1OB	2	-2'	-3'''	-3'	-3
-3	-4'	4OB	5	5OB	-6'	-7'	-7
-7	-8'	8OB	9	-9'	9OB	-10''	-10'

6th Natural Minor

	-1'	-1	2	-2'	-2	-3'''	-3
-3	-4'	-4	5	5ob	6	-6	-7
-7	-8'	-8	9	-9'	-9	10	-10'

6th Major Pentatonic

	-1'	1ob	-2'	-3'''	-3
-3	-4	5	5ob	-6	-7
-7	-8'	8ob	-9'	9ob	-10'

6th Minor Pentatonic

	-1	2	-2'	-3'''	-3
-3	-4	5	5ob	-6	-7
-7	-8	9	-9'	10	-10'

6th Blues

	-1	2	-2'	-2''	-3'''	-3
-3	-4	5	-5	5ob	-6	-7
-7	-8	9	-9''	-9'	10	-10'

12th Position

12th Major

				1	-1	2	-2''
-2''	-2	-3'''	-3'	4	-4	5	-5
-5	6	-6	-7'	8	-8	9	-9''
-9''	-9	10	-10''	-10			

12th Natural Minor

				1	-1'	1ob	-2''
-2''	-2	-3'''	-3'	4	-4'	5ob	-5
-5	6	-6'	-7'	8	-8'	8ob	-9''
-9''	-9	9ob	-10''	-10			

12th Major Pentatonic

				1	-1
-2''	-2	-3'''	4	-4	-5
-5	6	7	8	-8	-9''
-9''	-9	10	-10''	-10	

12th Minor Pentatonic

				-2''	-3'''	-3'	4	4ob	-5
				-5	-6'	-7'	8	8ob	-9''
				-9''	9ob	-10''	-10'	-10	

12th Blues

				-2''	-3'''	-3'	-3	4	4ob	-5
				-5	-6'	-7'	-7	8	8ob	-9''
				-9''	9ob	-10''	-10'	-10		

Note Layouts Powerdraw

F#

Blow	F#	A#	C#	F#	A#	C#	D#	F#	A#	D#
Hole	1	2	3	4	5	6	7	8	9	10
Draw	G#	C#	E#	G#	B	D#	E#	G#	C#	F#
	G	C	E	G		D	D	G	C	F
		B	D#						B	E
			D							

C

Blow	C	E	G	C	E	G	A	C	E	A
Hole	1	2	3	4	5	6	7	8	9	10
Draw	D	G	B	D	F	A	B	D	G	C
	Db	Gb	Bb	Db		Ab	Bb	Db	Gb	B
		F	A						F	Bb
			Ab							

G

Blow	G	B	D	G	B	D	E	G	B	E
Hole	1	2	3	4	5	6	7	8	9	10
Draw	A	D	F#	A	C	E	F#	A	D	G
	G#	C#	F#	G#		D#	F	G#	C#	F#
		C	E						C	F
			D#							

Db

Blow	Db	F	Ab	Db	F	Ab	Bb	Db	F	Bb
Hole No	1	2	3	4	5	6	7	8	9	10
Draw	Eb	Ab	C	Eb	Gb	Bb	C	Eb	Ab	Db
	D	G	B	D		A	B	D	G	C
		Gb	Bb						Gb	B
			A							

Ab

Blow	Ab	C	Eb	Ab	C	Eb	F	Ab	C	F
Hole	1	2	3	4	5	6	7	8	9	10
Draw	Bb	Eb	G	Bb	Db	F	G	Bb	Eb	Ab
	A	D	Gb	Ac		E	F#	A	D	G
		Db	F						C#	F#
			E							

D

Blow	D	F#	A	D	F#	A	B	D	F#	B
Hole	1	2	3	4	5	6	7	8	9	10
Draw	E	A	C#	E	G	B	C#	E	A	D
	D#	G#	C	D#		A#	C	D#	G#	C#
		G#	B						G	C
			Bb							

A

Blow	A	C#	E	A	C#	E	F#	A	C#	F#
Hole	1	2	3	4	5	6	7	8	9	10
Draw	B	E	G#	B	D	F#	G#	B	E	A
	A#	D#	G	A#		F	G	A#	D#	G#
		D	F#						D	G
			F							

Eb

Blow	Eb	G	Bb	Eb	G	Bb	C	Eb	G	C
Hole	1	2	3	4	5	6	7	8	9	10
Draw	F	Bb	D	F	Ab	C	D	F	Bb	Eb
	Eb	A	Db	E		B	C#	E	A	D
		Ab	C						G#	C#
			B							

Bb

Blow	Bb	D	F	Bb	D	F	G	Bb	D	G
Hole	1	2	3	4	5	6	7	8	9	10
Draw	C	F	A	C	Eb	G	A	C	F	Bb
	B	E	Ab	B		Gb	Ab	B	E	A
		Eb	G						Eb	G#
			Gb							

E

Blow	E	G#	B	Eb	G#	B	C#	E	G#	C#
Hole	1	2	3	4	5	6	7	8	9	10
Draw	F#	B	D#	F#	A	C#	D#	F#	B	E
	F#	A#	D	F		C	D	F	A#	D#
		A	C#						A	D
			C							

B

Blow	B	D#	F#	B	D#	F#	G#	B	D#	G#
Hole	1	2	3	4	5	6	7	8	9	10
Draw	C#	F#	A#	C#	E	G#	A#	C#	F#	B
	C	F	A	C		G	A	C	F	Bb
		E	G#						E	A
			G							

F

Blow	F	A	C	F	A	C	D	F	A	D
Hole	1	2	3	4	5	6	7	8	9	10
Draw	G	C	E	G	Bb	D	E	G	C	F
	Gb	B	Eb	Gb		Db	Eb	F#	B	E
		Bb	D						Bb	D#
			Db							

WILDE TUNED

Blow	C	E	G	C	E	E	G	C	E	A
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	D	G	B	D	F	G	B	D	G	C
	Db	Gb	Bb	Db		F#	Bb	Db	Gb	B
		F	A			F	A		F	Bb
			Ab				Ab			

1ST POSITION

Blow	1	3	5	1	3	3	5	1	3	6
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	2	5	7	2	4	5	7	2	5	1
	b2	b5	b7	b2		b5	b7	b2	b5	7
		4	6			4	6		4	b7
			b6				b6			

2nd Position

Blow	4	6	1	4	6	6	1	4	6	2
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	5	1	3	5	b7	1	3	5	1	4
	b5	7	b3	b5		7	b3	b5	7	3
		b7	2			b7	2		b7	b3
			b2				b2			

WILDE TUNED

3rd Position

Blow	b7	2	4	b7	2	2	4	b7	2	5
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	1	4	6	1	3	4	6	1	4	b7
	7	3	b6	7		3	b6	7	3	6
		b3	5			b3	5		b3	b6
			b5				b5			

4th Position

Blow	b3	5	b7	b3	5	5	b7	b3	5	1
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	4	b7	2	4	6	b7	2	4	b7	b3
	3	6	b2	3		6	b2	3	6	2
		b6	1			b6	1		b6	b2
			7				7			

5th position

Blow	b6	1	b3	b6	1	1	b3	b6	1	4
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	b7	b3	5	b7	b2	b3	5	b7	b3	b6
	6	2	b5	6		2	b5	6	2	5
		b2	4			b2	4		b2	b5
			3				3			

WILDE TUNED

6th Position

Blow	b2	4	b6	b2	4	4	b6	b2	4	b7
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	b3	b6	1	b3	b5	b6	1	b3	b6	b2
	2	5	7	2		5	7	2	5	1
		b5	b7			b5	b7		b5	7
			6				6			

12th Position

Blow	5	7	2	5	7	7	2	5	7	3
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	6	2	b5	6	1	2	b5	6	2	5
	6b	b2	4	6b		b2	4	b6	b2	b5
		1	3			1	3		1	4
			b3				b3			

WILDE - SCALES FOR POSITIONS

Modal Scale

1	-1	2	-2"	-2	-3"	-3	4	-4	5	-5	-6	-6"	-6	-7"	-7	8	-8	9	-9"	-9	10	-10'	-10
---	----	---	-----	----	-----	----	---	----	---	----	----	-----	----	-----	----	---	----	---	-----	----	----	------	-----

1st Position

1st Major

1	-1	2	-2"	-2	-3"	-3	4
4	-4	5	-5	-6	-7"	-7	8
8	-8	9	-9"	-9	10	-10'	-10

1st Natural Minor

1	-1	1ob	-2"	-2	-3"	-3'	1
4	-4	4ob	-5	-6	-7"	-7'	8
8	-8	8ob	-9"	-9	9ob	-10"	-10

1st Major Pentatonic

1	-1	2	-2	-3"	4
4	-4	5	-6	-7	1
8	-8	9	-9	10	-10

1st Minor Pentatonic

1	1ob	-2"	-2	-3'	4
4	4ob	-5	-6	-7	8
8	8ob	-9"	-9	10	-10"

1st Blues

1	1ob	-2"	-2'	-2	-3'	4
4	4ob	-5	-6'	-6	-7	8
8	8ob	-9"	-9'	-9	10	-10"

2nd Position

2nd major

		1	-1'	-1	-2"	-2	-2
-2	-3'	4	-4'	-4	-5	-6	-6
-6	-7'	8	-8'	-8	-9"	-9	-9
-9	-10"	-10					

2nd Natural Minor

		1	-1	1ob	-2"	-2	-2
-2	-3"	-3'	4	-4	4ob	-5	-6
-6	-7"	-7'	8	-8	8ob	-9"	-9
-9	10	-10"	-10				

2nd Major Pentatonic

		-1	2	-2		
-2	-3"	-3	-4	5	-6	
-6	-7"	-7	-8	9	-9	
-9	10	-10'				

2nd Minor Pentatonic

		1	-1	-2"	-2	
-2	-3'	4	5	-5	-6	
-6	-7'	8	-8	-9"	-9	
-9	-10"	-10				

2nd Blues

		1	-1'	-1	-2"	-2	
-2	-3'	4	-4'	-4	-5	-6	
-6	-7'	8	-8'	-8	-9"	-9	
-9	-10"	-10					

3rd Position

3rd Major

		1	-1'	-1	-2"	-2	
-2	-3'	4	-4'	-4	-5	-6	
-6	-7'	8	-8'	-8	-9"	-9	
-9	-10"	-10					

3rd Natural Minor

-1	2	-2"	-2	-3"	-3'	4	-4
-4	5	-5	-6	-7"	-7'	8	-8
-8	9	-9"	-9	10	-10"	-10	

3rd Harmonic Minor

-1	2	-2"	-2	-3"	-3'	-4'	-4
-4	5	-5	-6	-7"	-7'	-8'	-8
-8	9	-9"	-9	10	-10"		

3rd Pentatonic Minor

-1	-2"	-2	-3"	4	-4
-4	-5	-6	-7"	8	-8
-8	-9"	-9	10	-10	

3rd Pentatonic Major

-1	2	-2'	-3"	-3	-4
-4	5	-6'	-7"	-7	-8
-8	9	-9'	10	-10'	

3rd Blues

-1	-2"	-2	-3"	-3"	4	-4
-4	-5	-6	-7"	-7"	8	-8
-8	-9"	-9	9ob	10	-10	

POWERBENDER

Blow	C	E	G	C	D	F	A	C	E	A	
Hole No.	1	2	3	4	5	6	7	8	9	10	
Draw	D	G	B	D	E	G	B	D	G	C	
	Db	Gb	Bb	Db	Eb	F#	Bb	Db	Gb	B	
		F	A						F	Bb	
			Ab								
Draw Bend											

1st Position

Blow	1	3	5	1	2	4	6	1	3	6	
Hole No.	1	2	3	4	5	6	7	8	9	10	
Draw	2	5	7	2	3	5	7	2	5	1	
	b2	b5	b7	b2	b3	b6	b7	b2	b5	7	
		4	6						4	b7	
			b6								

2nd Position

Blow	4	6	1	4	5	b7	2	4	6	2	
Hole No.	1	2	3	4	5	6	7	8	9	10	
Draw	5	1	3	5	6	1	3	5	1	4	
	b5	7	b3	b5	b6	7	b3	b5	7	3	
		b7	2						b7	b3	
			b2								

POWERBENDER

3rd Position

Blow	b7	2	4	b7	1	b3	5	b7	2	5
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	1	4	6	1	2	4	6	1	4	b7
	7	3	b6	7	b2	3	6b	7	3	6
		b3	5						b3	b6
			b5							

4th Position

Blow	b3	5	b7	b3	4	b6	1	b3	5	1
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	4	b7	2	4	5	7	2	4	b7	b3
	3	6	b2	3	b5	6	b2	3	6	2
		b6	1						b6	b2
			7							

5th Position

Blow	b6	1	b3	b6	b7	b2	4	b6	1	4
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	b7	b3	5	b7	1	b3	5	b7	b3	b6
	6	2	b5	6	7	2	b5	6	2	5
		b2	4						b2	b5
			3							

POWERBENDER

6th Position

Blow	b2	4	b6	b2	b3	b5	b7	b2	4	b7
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	b3	b6	1	b3	4	b6	1	b3	b6	b2
	2	5	7	2	3	5	7	2	5	1
		b5	b7						b5	7
			6							

12th Position

Blow	5	7	2	5	6	1	3	5	7	3
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	6	2	b5	6	7	2	b5	6	2	5
	6b	b2	4	6b	b7	b2	4	b6	b2	b5
		1	3						1	4
			b3							

POWERBENDER - SCALES FOR POSITIONS

Modal Scale

1	-1	2	-2"	-2	-3"	-3	4	-4	-5	6	-6	7	-7	8	-8	9	-9"	-9	10	-10'	-10
---	----	---	-----	----	-----	----	---	----	----	---	----	---	----	---	----	---	-----	----	----	------	-----

1st Position

1st Major

1	-1	2	-2"	-2	-3"	-3	4
4	-4	-5	6	-6	7	-7	8
8	-8	9	-9"	-9	10	-10'	-10

1st Natural Minor

1	-1	1ob	-2"	-2	-3"	-3'	4
4	-4	-5'	6	-6	6ob	-7'	8
8	-8	8ob	-9"	-9	9ob	-10"	-10

1st Major Pentatonic

1	-1	2	-2	-3"	4
4	-4	-5	-6	7	8
8	-8	9	-9	10	-10

1st Minor Pentatonic

1	1ob	-2"	-2	-3'	4
4	-4'	6	-6	-7'	8
8	8ob	-9"	-9	10	-10"

1st Blues

1	1ob	-2"	-2'	-2	-3'	4
4	-5'	6	-6'	-6	-7'	8
8	8ob	-9"	-9'	-9	10	-10"

2nd Position

1st Major

1	-1	2	-2"	-2	-3"	-3	4
4	-4	-5	6	-6	7	-7	8
8	-8	9	-9"	-9	10	-10'	-10

1st Natural Minor

1	-1	1ob	-2"	-2	-3"	-3'	4
4	-4	-5'	6	-6	6ob	-7'	8
8	-8	8ob	-9"	-9	9ob	-10"	-10

2nd Major Pentatonic

	-1	2	-2		
-2	-3"	-3	-4	-5	-6
-6	7	-7	-8	9	-9
-9	10	-10'			

2nd Minor Pentatonic

	1	-1	-2"	-2	
-2	-3'	4	5	6	-6
-6	-7'	8	-8	-9"	-9
-9	-10"	-10			

2nd Blues

	1	-1'	-1	-2"	-2
-2	-3'	4	-4'	-4	6
-6	-7'	8	-8'	-8	-9"
-9	-10"	-10			

3rd Position

3rd Major

-1	2	-2'	-2	3	-3"	-3	-4'
-4	-5	-6'	-6	7	-7	-8'	-8
-8	9	-9'	-9	10	-10'		

3rd Natural Minor

-1	2	-2"	-2	-3"	-3'	4	-4
-4	-5	6	-6	7	-7'	8	-8
-8	9	-9"	-9	10	-10"	-10	

3rd Harmonic Minor

-1	2	-2"	-2	-3"	-3'	-4'	-4
-4	-5	6	-6	7	-7'	-8'	-8
-8	9	-9"	-9	10	-10"		

3rd Pentatonic Minor

-1	-2"	-2	-3"	4	-4
-4	6	-6	7	8	-8
-8	-9"	-9	10	-10	

3rd Pentatonic Major

-1	2	-2'	-3"	-3	-4
-4	-5	-6'	7	-7	-8
-8	9	-9'	10	-10'	

3rd Blues

-1	-2"	-2	-3"	-3"	4	-4
-4	-5	6	-6'	7	8	-8
-8	-9"	-9	9ob	10	-10	

4th Position

4th Major

	-1'	-1	2	-2'	-3"	-3"
-3"	-3	-4'	-4	5	5ob	-6'
-6	-7	-8'	-8	9	-9'	9ob

4th Natural Minor

	1	-1	2	-2"	-2	-3"
-3"	-3	4	-4	5	-5	6
-6	-7	8	-8	9	-9"	-9

4th harmonic Minor

	1	-1	2	-2"	-3"	-3"
-3"	-3	4	-4	5	-5	-6'
-6	-7	8	-8	9	-9"	9ob

4th Pentatonic Minor

	1	-1	2	-2	-3"
-3"	4	-4	5	6	-6
7	8	-8	9	-9	10

4th Pentatonic Major

	-1'	2	-2'	-3"
-3"	-3	-4'	5	5ob
-6	-7	-8'	9	-9'

4th Blues

	1	-1	1ob	2	-2	-3"
-3"	4	-4	4ob	5	6	-6
7	8	-8	8ob	9	-9	10

POWERBENDER - SCALES FOR POSITIONS

5th Position

5th Major

2	-2'	-3'''	-3"	-3	-4'	4ob	5
5	-6'	-6	7	-7	8'	8ob	9
9	-9	9ob					

5th Natural Minor

2	-2'	3	-3"	-3	4	-4	5
5	6	-6	7	-7	8	-8	9
9	-9'	-9	10	10'	-10		

5th Pentatonic Minor

2	-3	-3"	-3	-4	5
5	6	-6	7	-7	-8
-8	-9	10	-10'		

5th Pentatonic Major

	-1'	2	-2'	-3"	
-3"	-3	-4'	5	5ob	-6
-6	-7	-8'	9	-9'	10

5th Blues

2	-3	-3"	-3'	-3	-4	5
5	6	-6	7	-7'	-7	-8
-8	-9	10	10	-10'		

6th Position

6th Major

	-1'	1ob	2	-2'	-3'''	-3'	-3
-3	-4'	4ob	5	5ob	-6'	-7'	-7
-7	-8'	8ob	9	-9	9ob	-10'	-10'

6th Natural Minor

	-1'	-1	2	-2'	-2	-3"	-3
-3	-4'	-4	5	5ob	6	-6	-7
-7	-8'	-8	9	-9'	-9	10	-10'

6th Harmonica Minor

	-1'	-1	2	-2'	-2	-3'	-3
-3	-4'	-4	5	5ob	6	-7'	-7
-7	-8'	-8	9	-9'	-9	-10'	-10'

6th Pentatonic Minor

	-1	2	-2'	-3"	-3
-3	-3	5	5ob	-6	-7
-7	-8	4	-9'	10	-10'

6th Pentatonic Major

	-1'	1ob	-2'	-3'''	-3
-3	-4'	4ob	5ob	-6'	-7
-6	-8'	8ob	-9'	9ob	-10'

6th Blues

	-1	2	-2"	-2'	-3"	-3
-3	-3	5	-5	5ob	-6	-7
-7	-8	4	-9"	-9'	10	-10'

12th Position

12th Major

				1	-1	2	-2"
-2"	-2	-3"	-3'	4	-4	5	-5
-5	6	-6	-7'	8	-8	9	-9"
-9"	-9	10	-10"	-10			

12th Natural Minor

-2"	-2	-3'''	-3'	4	-4'	4ob	-5
-5	6	-6'	-7'	8	-8'	8ob	-9"
-9"	-9	9ob	-10"	-10			

12th Pentatonic Minor

-2"	-3'''	-3'	4	4ob	-5
-5	-6'	-7'	8	8ob	-9"
-9"	9ob	-10"	-10		

12th Major Pentatonic

				1	-1	-2"
-2"	-2	-3"	4	-4	-5	
-5	6	7	8	-8	-9"	
-2	10	-10				

12th Blues

-2"	-3'''	-3'	-3	4	4ob	-5
-5	-6'	-7'	-7	8	8ob	-9"
-9"	9ob	-10"	-10'	-10		

POWER CHROMATIC

Blow Bends	B	Db	E	Ab	B	Db	E	Ab	B	Db	E	Ab
Blow	C	D	F	A	C	D	F	A	C	D	F	A
Hole No.	1	2	3	4	5	6	7	8	9	#	11	12
Draw	D	E	G	B	D	E	G	B	D	E	G	B
Draw Bends	Db	Eb	Gb	Bb	Db	Eb	Gb	Bb	Db	Eb	Gb	Bb
Blow Bends	7	b2	3	b6	7	b2	3	b6	7	b2	3	b6
Blow	1	2	4	6	1	2	4	6	1	2	4	6
Hole No.	1	2	3	4	5	6	7	8	9	#	11	12
Draw	2	3	5	7	2	3	5	7	2	3	5	7
Draw Bends	b2	b3	b5	b7	b2	b3	b5	b7	b2	b3	b5	b7

Scales

C	1	-1	-2	3	-3	4	-4	5
D	2	-2	-3'	-3	4	-4	-5'	-5
Dm	2	-2	3	-3	4	-4	5	-5
Em	-2	-3'	-3	4	-4	5	-5	-6
Gm	-3	4	-4'	5	-5	-6	7	-7
Am	4	-4	5	-5	-6	7	-7	8
Bb	-4'	5	-5	-6'	7	-7	8	-8'

CHROMATIC HARMONICA

1	3	5	1	1	3	5	1	1	3	5	1
1	2	3	4	5	6	7	8	9	10	11	12
2	4	6	7	2	4	6	7	2	4	6	7

1#	4	5#	1#	1#	4	5#	1#	1#	4	5#	1#
1	2	3	4	5	6	7	8	9	10	11	12
2#	4#	6#	1	2#	4#	6#	1	2#	4#	6#	1

C	E	G	C	C	E	G	C	C	E	G	C
1	2	3	4	5	6	7	8	9	10	11	12
D	F	A	B	D	F	A	B	D	F	A	B

C#	F	G#	C#	C#	F	G#	C#	C#	F	G#	C#
1	2	3	4	5	6	7	8	9	10	11	12
D#	F#	A#	C	D#	F#	A#	C	D#	F#	A#	C

C	C	D	E	F	G	A	B	C	F#	F#	G#	A#	B	C#	D#	E#	F#
	+1	-1	+2	-2	+3	-3	-4	+4		<-2	<+3	<-3	-4	<+4	<-5	<+6	<-6

G	G	A	B	C	D	E	F#	G	Db	Db	Eb	Fb	Gb	Ab	Bb	C	Db
	+3	-3	-4	+4	-5	+6	<-6	+7		<+1	<-1	<+2	<-2	<+3	<-3	+4	<+4

D	D	E	F#	G	A	B	C#	D	Ab	Ab	Bb	C	Db	Eb	F	G	Ab
	-1	+2	<-2	+3	-3	-4	<+4	-5		<+3	<-3	+4	<+4	<-5	-6	+7	<+7

A	A	B	C#	D	E	F#	G#	A	Eb	Eb	F	G	Ab	Bb	C	D	Eb
	-3	-4	<+4	-5	+6	<-6	<+7	-7		<-1	-2	+3	<+3	<-3	+4	-5	<-5

E	E	F#	G#	A	B	C#	D#	E	Bb	Bb	C	D	Eb	F	G	A	Bb
	+2	<-2	<+3	-3	-4	<+4	<-5	+6		<-3	+4	-5	<-5	-6	+7	-7	<-

B	B	C#	D#	E	F#	G#	A#	B	F	F	G	A	Bb	C	D	E	F
	-4	<+4	<-5	+6	<-6	<+7	<-7	-8		-2	+3	-3	<-3	+4	-5	+6	<-6

Natural Minor

Blow Bend

										Bb
							B		Gb	B
Blow	C	Eb	G	C	Eb	G	C	Eb	G	C
Hole No	1	2	3	4	5	6	7	8	9	10
Draw	D	G	Bb	D	F	A	Bb	D	F	A
	Db	Gb	A	Db	E					
		F	Ab							
		E								

Draw Bend

										b7
							7		b5	7
Blow	1	b3	5	1	b3	5	1	b3	5	1
Hole No	1	2	3	4	5	6	7	8	9	10
Draw	2	5	b7	2	4	6	b7	2	4	6
	b2	b5	6	b2	3	b6				
		4	b6							
		3								b7

										b7
							7		b5	7
Blow	4	b6	1	4	b6	1	4	b6	1	4
Hole No	1	2	3	4	5	6	7	8	9	10
Draw	5	1	b3	5	b7	2	b3	5	b7	2
	b5	b1	6	b2	6	b6				
		7	b6							
		b7								

Harmonic Minor

Blow Bend	
	Ab
	Bb
	Gb
	B

Blow	C	Eb	G	C	Eb	G	C	Eb	G	C
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	D	G	B	D	F	Ab	B	D	F	Ab

Db	Gb	Bb	Db	E
	F	A		
	E	Ab		

Draw Bend

	7		b5	7
--	---	--	----	---

Blow	1	b3	5	1	b3	5	1	b3	5	1
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	2	5	7	2	4	b6	7	2	4	b6

b2	b5	b7	b2	3
	4	6		
	3	b6		

	2
	3
	b1
	b4

Blow	4	b6	1	4	b6	1	4	b6	1	4
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	5	1	3	5	b7	b2	3	5	b7	b2

b5	b1	b3	b5	6
	7	2		
	b7	b2		

Paddy

										b7
	b3			b3	#4	b7		b3	b5	7
Blow	1	3	6	1	3	5	1	3	5	1
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	2	5	7	2	4	6	7	2	4	6
	b2	b5	b7	b2		b6	#1		b6	#1
		4	6							
			b6							

Country

										b7
	b3			b3	5	b7		b3	b5	7
Blow	1	3	5	1	3	5	1	3	5	1
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	2	5	7	2	#4	6	7	2	4	6
	b2	b5	b7	b2	4	b6	#1		b6	#1
		4	6							
			b6							

Pentaharp

Blow	1	4	5	1	3	5	1	3	5	1
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	b3	b5	b7	2	4	6	7	2	4	6
	2		6	2		6	2		6	2
	b2		b6	b2		b6	b2		b6	b2

Easy 3rd

	Eb				Eb Gb Bb				Eb Gb Bb	
	C	E	G	C	E	G	C	E	G	C
Blow	1	2	3	4	5	6	7	8	9	10
Hole No.	D	F	A	D	F	A	B	D	F	A
Draw	Db	G#		Db	Ab		Db	Ab		Db

1st

	Eb				Eb Gb Bb				Eb Gb Bb	
	1	3	5	1	3	5	1	3	5	1
Blow	1	2	3	4	5	6	7	8	9	10
Hole No.	2	4	6	2	4	6	7	2	4	6
Draw	Db	G#		Db	Ab		Db	Ab		Db

2nd

	b6				b6 b1 b3				b6 b1 b3	
	4	6	1	4	6	1	4	6	1	4
Blow	1	2	3	4	5	6	7	8	9	10
Hole No.	5	b7	2	5	b7	2	3	5	b7	2
Draw	b5	b2		b5	b2		b3	b2		b5

3rd

	b2				b2 3 b6				b2 3 b6	
	b7	2	b4	b7	2	4	b7	2	4	b7
Blow	1	2	3	4	5	6	7	8	9	10
Hole No.	1	b3	5	1	b3	5	6	1	b3	5
Draw	7	b5		7	b5		7	b5		7

4th

Easy 3rd

										b2
	b5			b5	6	b2		b5	4	2
Blow	b3	5	b7	b3	5	b7	b3	5	b7	b3
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	4	b6	1	4	b6	1	2	4	b6	1
	3		b1	3		7	3		7	3

5th

										b5
	7			7	2	3		7	2	5
Blow	b6	1	b3	b6	1	b3	b6	1	b3	b6
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	b7	b2	4	b7	b2	4	5	b7	b2	4
	6		b4	6		3	6		3	6

9th

										2
	5			5		2		5	b7	b3
Blow	3	b5	7	3	b6	7	3	b6	7	3
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	b4	6	b2	b5	6	b2	b2	b5	6	b2
	4		1	4		1	4	6	2	5

12th

										4
	b7			b7	b2	b4		b7	b2	b5
Blow	5	7	2	5	7	2	5	7	2	5
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	6	1	3	6	1	3	b5	6	1	3
	b6		b3	b6		b3	b6		b3	b6

Paddy Richter

	Eb		Eb		Gb	Bb	Eb		Gb	Bb
Blow	C	E	A	C	E	G	C	E	G	C
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	D	G	B	D	F	A	B	D	F	A
	Db	Gb	Bb	Db		Ab	Db		Ab	Db
	F									

Paddy 1st

	b3		b3		#4	b7	b3		b5	b7
Blow	1	3	6	1	3	5	1	3	5	1
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	2	5	7	2	4	6	7	2	4	6
	b2	b5	b7	b2		b6	#1		b6	#1
	4									

2nd

	b6		b6		73	b3	b6		b1	b3
Blow	4	6	2	4	6	1	4	6	1	4
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	5	1	3	5	b7	2	3	5	b7	2
	b5	7	b3	b5		b2	b5		b2	b5
	b7									

3rd

	b2		b2		3	b6	b2		3	b6
Blow	b7	2	5	b7	2	4	b7	2	4	b7
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	1	4	6	1	b3	5	6	1	b3	5
	7	3	b6	7		b5	7		b5	7
	b3									

4th

Paddy Richter

										b2
	b5			b5	6	b2		b5	4	2
Blow	b3	5	1	b3	5	b7	b3	5	b7	b3
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	4	b7	2	4	b6	1	2	4	b6	1
	3	6	b2	3		7	3		7	3
		b6								

5th

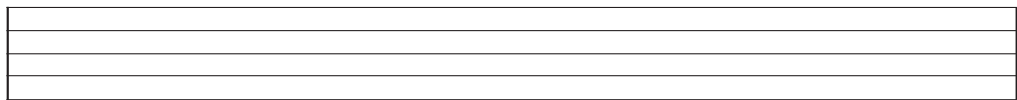
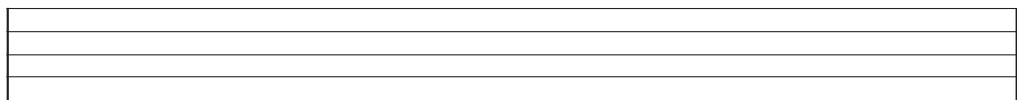
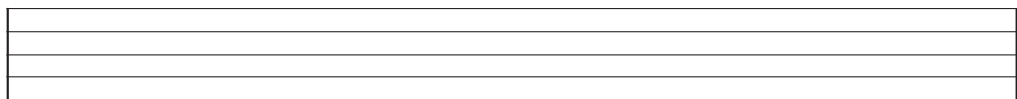
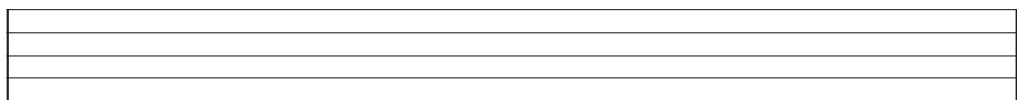
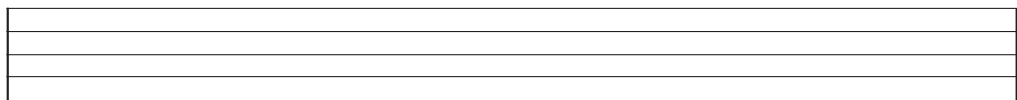
										b5
	7			7	6	b5		7	2	5
Blow	b6	1	4	b6	1	b3	b6	1	b3	b6
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	b7	b3	5	b7	b2	4	5	b7	b2	4
	6	2	b5	6		3	6		3	6
		b2								

6th

										7
	3			3	5	7		3	5	1
Blow	b2	4	b6	b2	4	b6	b2	4	6b	b2
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	b3	b6	1	b3	b5	b7	1	b3	5b	b7
	2	5	7	2		6	2		6	2
		b5								

12th

										4
	b7			b7	b2	b4		b7	b2	b5
Blow	5	5	3	5	7	2	5	7	2	5
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw	6	2	4	6	1	3	b5	6	1	3
	b6	b2	b4	b6		b3	b6		b3	b6
		1								



Key:

Harp:

Position:

Blow										
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw										

Chord Progression/Scales/Notes

Blow										
Hole No.	1	2	3	4	5	6	7	8	9	10
Draw										

Handwriting practice area with 10 horizontal lines and vertical guides.

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jdmckayauthor@gmail.com

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