



VIENNA SYMPHONIC LIBRARY

Vienna Instruments

Percussion

Mapping Documentation

Altar-boy bells

Anklung

Bass drum

Bell tree

Bicycle horns

Boobam

Brake disks

Bullroarer

Burma bells

Car horns

Castanets

Caxixi

Celesta

Cencerros

Chimes

Church bells

Claves

Cowbells

Crotales

Cuica

Cymbals

Field drum

Finger cymbals

Flexatone

Glockenspiel

Gong

Guiro

Hammer

Handbells

Japanese singing

bowls

Jingle bells

Jingle ring

Lion roar

Lithophone

Log drum

Ocean drum

Piatti

Piccolo drum

Plate bells

Railway rails

Rainmaker

Ratchets

Shakers

Ship's bell

Shots

Sirens

Snare drum

Snare drum ensemble

Spring drum

Springs

Tambourine

Tam-tam

Temple blocks

Thundersheets

Timpani

Triangle

Tubular bells

Vibraphone

Vibratone

Waldteufel

Waterphone

Whip

Wind machine

Woodblock

Xylophone



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Introduction

This document contains the mapping list for the Percussion Collection of Vienna Instruments. You will find in it a comprehensive survey of the articulations/patches for the Standard and the Extended Libraries of each instrument, a listing of abbreviations, and the mapping list proper which gives details for every Patch, Matrix, and Preset in the collection.

Patch information

The Patch information includes articulation types, playing range, number of samples used, RAM requirements, the number of velocity layers and alternations, AB switching possibilities, etc., as well as Patch specific information.

Where the type of articulation requires a special mapping (which is often the case with percussion instruments), the mapping layout will be shown in a detailed graphic.

The velocity layer switches are roughly the same for patches with the same number of layers but may occasionally be adapted to the instrument's requirements:

Layers	Layer 1	Layer 2	Layer 3	Layer 4	Layer 5	Layer 6
2	0–88	89–127				
3	0–55	56–88	89–127			
4	0–55	51–88	89–108	109–127		
5	0–35	36–55	56–88	89–108	109–127	
6	0–35	36–55	56–88	89–108	109–118	119–127

Some of the percussion instruments have up to 12 velocity layers, and several have different numbers of velocities for different articulations in the same Patch; where this is the case, the Patch description gives more detailed information except for dynamics (crescendo and diminuendo, sforzato, ...), which always have a set number of articulations according to their strength: light, 3 layers; medium, 2 layers; strong, 1 layer.

Matrix information

Each Matrix listing contains information regarding the Patches used for the Matrix, the number of horizontal and vertical dimensions, and switching properties. A mapping table shows the Cell positions for each of the Matrix' Patches.

A/B switching normally is set to A0 for upward/crescendo, and B0 for downward/diminuendo, etc. The percussion especially also uses other possibilities of A/B switching, like accelerando/ritardando, stroke direction, left and right hand alternation switches, release duration, and closed and open hits.

In order to facilitate working with **MIDI controller switches** like the Modulation wheel, the switching positions are not distributed equally across the controller range if they control more than two Matrix rows or columns; generally, the switching range will be narrower at the extreme positions because they are easy to set, and wider in the middle where it is harder to find the desired setting.

Speed controller switches naturally are adjusted to the Patches involved, and have been tested carefully as to their playability. However, if you find that they do not fit your playing, or want to try out other settings, you can change this as well as any other controller's settings at the **Control edit** page, and save the result in your Custom Matrix folder.

Preset information

The Preset information lists the Matrices used in the Preset as well as its keyswitches. All other information can be gathered from the Matrix and Patch listings, so there's not really much to say here.

New instruments

The Vienna Instruments Percussion has an extended content compared with the Pro Edition Percussion. There are several instruments which were recorded especially for VI. Here's a brief overview:

Timpani - A	up to 8 velocities; single hits normal and secco, rolls, dynamic rolls, performance repetitions, 1–3 upbeats, single note and roll glissandi
Snare Drum - A	up to 12 velocities, snares on and off; single hits, rolls, dynamic rolls, performance repetitions, tied trills, rim hits
Field drum - A	up to 8 velocities, snares on and off; single hits, rolls, dynamic rolls, performance repetitions, rim hits
Bass drum - A	up to 8 velocities, soft and hard mallets; single hits, rolls, dynamic rolls, performance repetitions, 1–3 upbeats
Concert toms	up to 8 velocities; single hits, rolls, dynamic rolls, performance repetitions, 1–3 upbeats
Roto toms	up to 8 velocities; single hits, rolls, dynamic rolls, performance repetitions, rim hits
Taikos	up to 8 velocities; single hits, rolls, dynamic rolls, performance repetitions, rim hits, FX
Tambourine - A	up to 8 velocities; single hits, rolls, dynamic rolls, performance repetitions, 1–3 upbeats
Piatti - A	up to 8 velocities, single hits normal and slow, damped fast and slow, performance repetitions
Cymbal standard - A	up to 8 velocities, drumsticks and mallets; single hits normal and damped, rolls, dynamic rolls, performance repetitions
Triangle A	up to 8 velocities; single hits normal and damped, rolls, dynamic rolls, performance repetitions, 1–3 upbeats

Abbreviations

Instruments

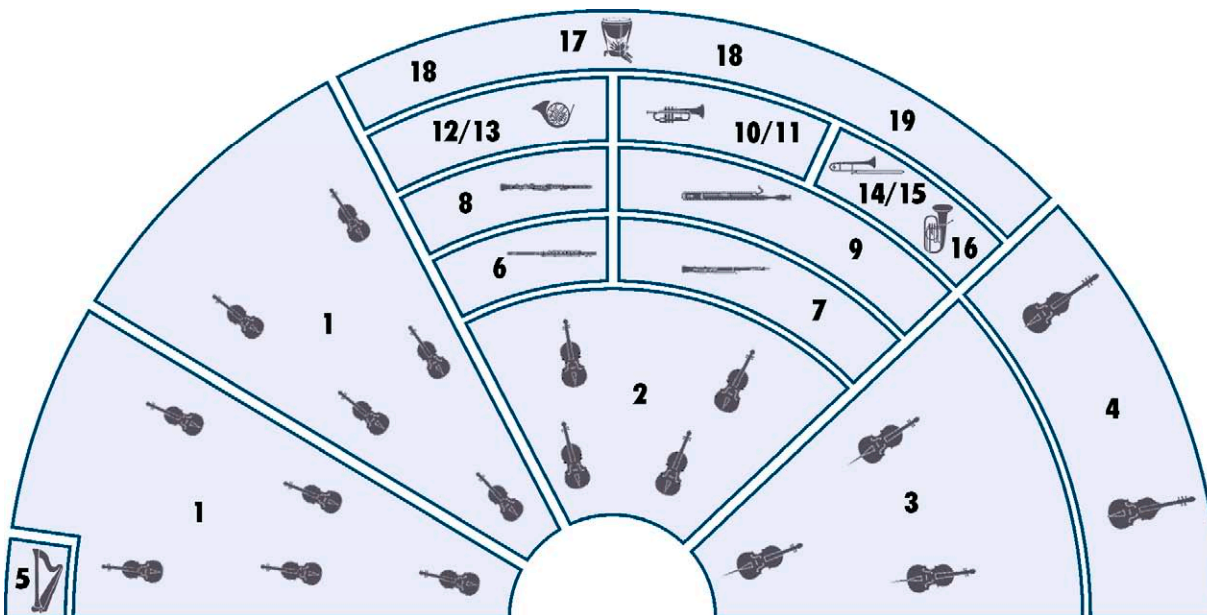
Abbreviation	Meaning	Abbreviation	Meaning
B-Drum	bass drum	Spr-Drum	spring drum
Boo	boobam	ST-XY	stir xylophone
Co-Toms	concert toms	Tam	tam-tam
Cym	cymbal	Tamb	tambourine
Field	field drum	TBL	temple blocks
Glsp	glockenspiel	Tmp	timpani
J-Bowls	Japanese singing bowls	Tri	triangle
LI-s	small lithophone	VIB	vibraphone
MAR	marimba	WBL	woodblocks
Perc	percussion	WP	waterphone
Ro-Toms	roto toms	Xyl	xylophone
Snare	snare drum		

Articulations, mallets, and other abbreviations

Abbreviation	Meaning	Abbreviation	Meaning
1s, 2s, ...	tone length 1 sec., 2 sec., ...	MD	medium mallet
50, 60, ...	50, 60 ... centimeters diameter	me	medium (speed)
6Z, 8Z, ...	6, 8 ... inches diameter	ME	metal mallet
acc	accelerando	MHA	medium hard mallet
all	combination of all Patches of a category	mPL	medium plastic mallet
bME	large metal mallet	off	snare off
Chi	China (piatti)	on	snare on
CLU	cluster mallet	perf-rep	repetition performance
cre	crescendo	pizz	pizzicato
dim	diminuendo	PL	plastic mallet
do	down	Rod	metal rod
dyn	dynamics (crescendo and diminuendo)	Rubber	rubber mallet
dyn9	dynamics, 9 repetitions	Rub-stick	rubbing stick
dyn-me	medium dynamics	sl	slow
dyn-str	strong dynamics	SO	soft mallet
fa	fast	SO+	very soft mallet
FE	felt mallet	SO-med	medium soft mallet
FI	fingers	sPL	soft plastic mallet
FX	effect sounds	Stick	wood stick, drumsticks
Gliss	glissando	Tmp	timpani mallet
Gliss_5-up	glissando, 4th upward	Tri	triangle beater
HA	hard mallet	UB	upbeat
HA-super	extra hard mallet	UB-a1, -a2	1, 2 upbeats
hPL	hard plastic mallet	v1, v2 ...	1st, 2nd, ... variation
Is	Istanbul Janissary or Symphonic (piatti)	Vib	with vibrato
K, K2	Avedis K1, K2 (piatti)	WO	wood mallet
lo	long	XF	cell crossfade Matrix
		YA, yarn	yarn-wound mallet
		Za	Zildjian Avedis (piatti)

The orchestra

There are several ways of setting up an orchestra, depending on the era of the piece played, the type of the piece and the instruments it requires, and even on the preference of the conductor. The figure below shows one of the more common setups, which can be taken as a guideline for mixing a composition, properly positioning the instruments in the stereo field and adding reverb according to the size of the concert hall you want your piece to be played in.



- 1 1st and 2nd violin
- 2 Viola
- 3 Cello
- 4 Double bass
- 5 Harp
- 6 Concert flute, piccolo
- 7 Oboe, English horn
- 8 Clarinet, bass clarinet

- 9 Bassoon, contrabassoon
- 10/11 Trumpet
- 12/13 Horn
- 14/15 Trombone
- 16 Tuba
- 17 Timpani
- 18 Drums, cymbals
- 19 other percussion instruments

Pitch

For designating pitch, the Vienna Symphonic Library uses International Pitch Notation (IPN), which was agreed upon internationally under the auspices of the Acoustical Society of America. In this system the international standard of A=440 Hz is called A4 and middle C is C4. All pitches are written as capital letters, their respective octave being indicated by a number next to it. The lowest C on the piano is C1 (the A below that is A0), etc.

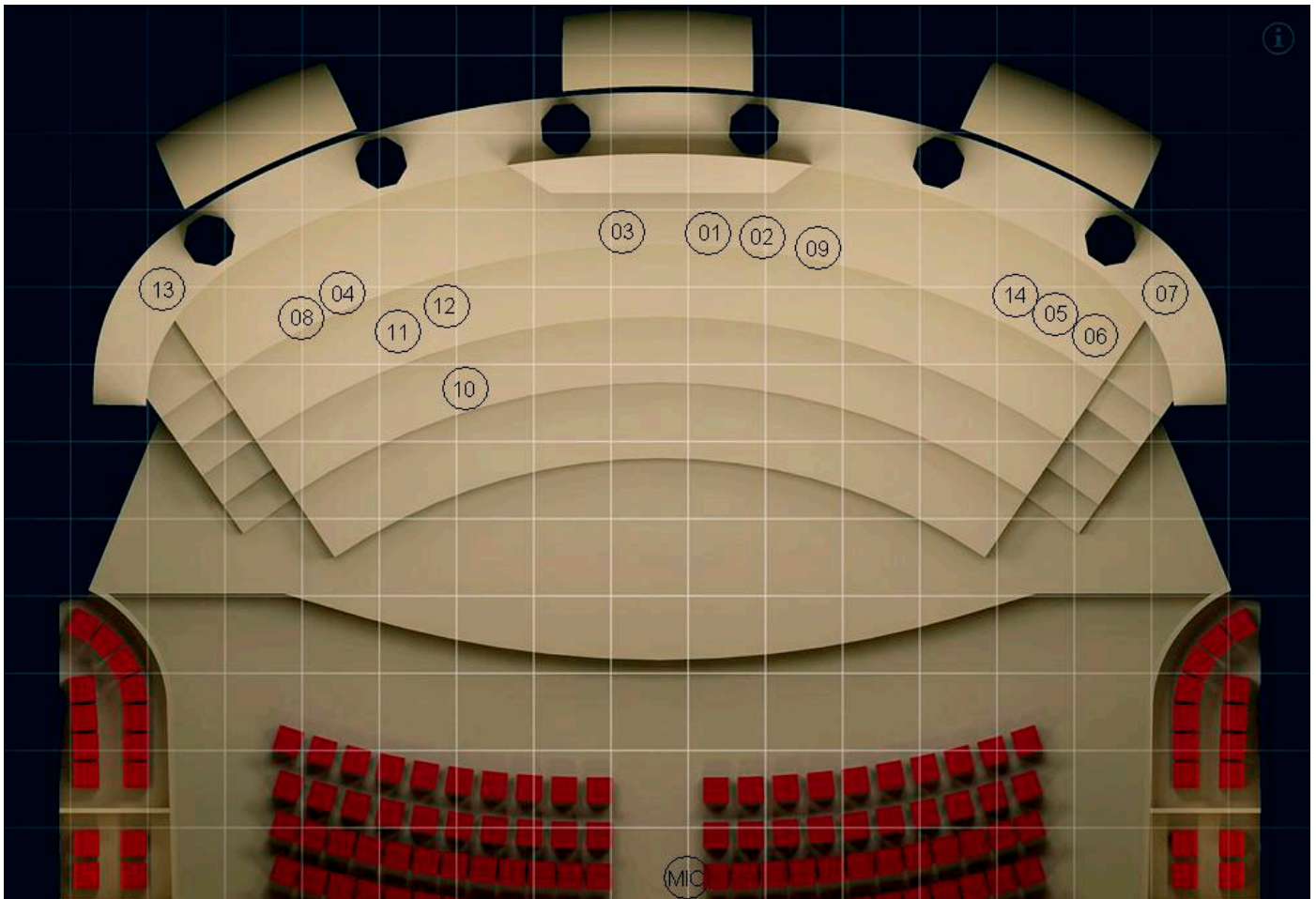
You can tune your Vienna Instruments to other players, or adjust it to tunings of earlier musical periods by setting the Perform page's Master Tune option within a range of 420 to 460 Hz.

80 Processed Percussion

The processed percussions are a mixdown-ready set of selected samples from the Vienna Symphonic Library. Our goal was to achieve authentic acoustic depth and imaging from these instruments – as if they were recorded while being played in the back of the stage in a world-class orchestral hall, carefully treated by experienced engineers.

World class analog and digital equipment was used throughout: Dynamic processors from API, Manley, Urei, SPL and SSL, equalizers and filters from Massenburg, Avalon, Tube-Tec and Calrec, routed and mixed through the large-scale Neve VR console at Tonstudio Hafner near Vienna. The digital audio workstation which handled the complex routing was Steinberg's Nuendo 3, equipped with RME digital cards and Lake People AD/DA converters, Algorithmix equalizers and others, as well as additional custom designed software for impulse response processing.^{*)}

The virtual stage on which you now can put these pre-processed instruments is the sought-after Great Hall of the Vienna Konzerthaus. The microphone is placed in a position which is supposed to be one of the ideal listening positions in this auditory – a seat in the 7th row, approximately. The positioning cues for each instrument plus the resulting reverb are derived from selected impulse responses from the Vienna Symphonic Library's "MIR" project. The graphic below gives you an idea where each instrument is seated:



Although pre-processed, these instruments still offer a considerable amount of artistic freedom: The relation between the direct ("dry") signal and the resulting reflections and reverb may be chosen with a turn of the modulation wheel. – However, you should be aware that "full wet" means the absence of *any* direct signal, something that is not very likely to happen in nature. Nevertheless, in this way you will be able to bring an instrument closer to the listener if your arrangement asks for it.

Also, you'll still be able to choose the side on which an instrument is seated: just swap the sides of the left and right channels within your mixing application. Although not true to nature anymore, the result will be convincing and mix perfectly with the other pre-processed percussion instruments.

^{*)} All names and trademarks are property and copyright of their respective companies.

Patches

01 TIMPANI

Level 1: Timpani single hits and rolls

Drums and percussion set (concert toms, snare and bass drum, tambourine, cymbals, piatti, tam-tam, triangle, rails, whip, hammer)

Celesta, glockenspiel, xylophone, and tubular bells single notes

01 Tmp-A_wet_Single-Hits

Range: A#1–C7

Samples: 799

RAM: 49 MB

Level 1

Single hits, wet

8 velocity layers: 0–15 ppp, 16–35 pp, 36–55 p, 56–70 mp, 71–88 mf, 89–108 f, 109–118 ff, 119–127 fff

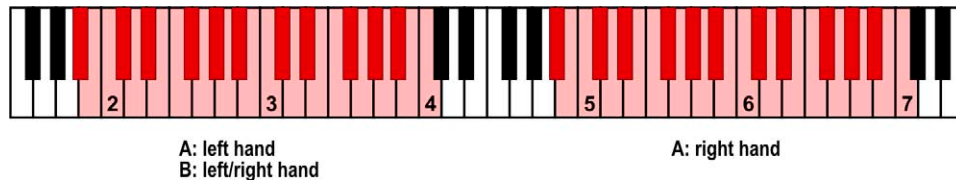
4 Alternations

AB switch: alternation left/right

Mapping:

A#1–C4: left hand/(right hand)

A#4–C7: right hand



02 Tmp-A_wet_Roll

Range: A#1–C7

Samples: 819

RAM: 51 MB

Level 1

Rolls and single hits (2 alternations), wet

Velocity mapping:

Rolls, 6 layers: 0–35 pp, 36–55 p, 56–70 mp, 71–88 mf, 89–108 f, 109–127 ff

Single hits, 8 layers: 0–15 ppp, 16–35 pp, 36–55 p, 56–70 mp, 71–88 mf, 89–108 f, 109–118 ff, 119–127 fff

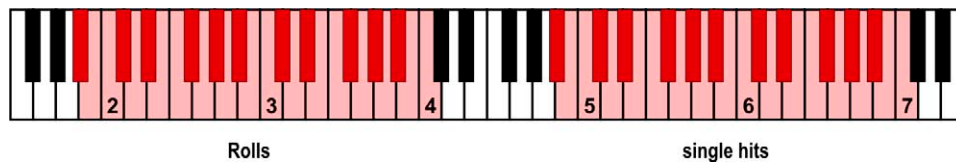
Release samples

AB switch: release duration long/short

Mapping:

A#1–C4: rolls

A#4–C7: single hits



11 Tmp-A_dry_Single-Hits

Range: A#1–C7

Samples: 800

RAM: 50 MB

Level 1

Single hits, dry

For a mapping image and velocity layers, see the corresponding "wet" Patch

8 velocity layers

4 Alternations

AB switch: alternation left/right

12 Tmp-A_dry_Roll**Range: A#1–C7****Samples: 820****RAM: 51 MB****Level 1**

Rolls and single hits (2 alternations), dry

For a mapping image and velocity layers, see the corresponding "wet" Patch

6 velocity layers

Release samples

AB switch: release duration long/short

02 DRUMS + PERCUSSION**01 Drums+Perc_set_wet****Range: C2–C8****Samples: 634****RAM: 39 MB****Level 1**

Drum and Percussion set, wet:

Concert toms, snare drum, bass drum, tambourine, cymbals, piatti, tam-tam, triangle, rails, whip, and hammer

Velocity mapping:

Snare drum, 12 layers: 0–10 ppppp, 11–20 pppp, 21–30 ppp, 31–40 pp, 41–50 p, 51–60 mp, 61–70 mf, 71–80 f, 81–90 ff, 91–100 fff, 101–110 ffff, 111–127 fffff

All others, 8 layers: 0–15 ppp, 16–35 pp, 36–55 p, 56–70 mp, 71–88 mf, 89–108 f, 109–118 ff, 119–127 fff

Release samples

2 Alternations

Mapping:

C2–A3: concert toms 1–6, single notes left/right

C4–D4: snare drum, single notes left/right

F4–G#4: bass drum, single notes left/right, normal and secco (secco on black keys)

A4–A#4: bass drum, tremolo, soft/hard mallet

C5–F5: tambourine, single hits, muted and open, var. 1/2

C#5–D#5: tambourine, tremolo/thumb tremolo

G5–B5: suspended cymbal, single hits stick/hard mallet/soft mallet

C6–D6: piatti, single hits normal/damped fast/slow

E6: tam-tam, single hits

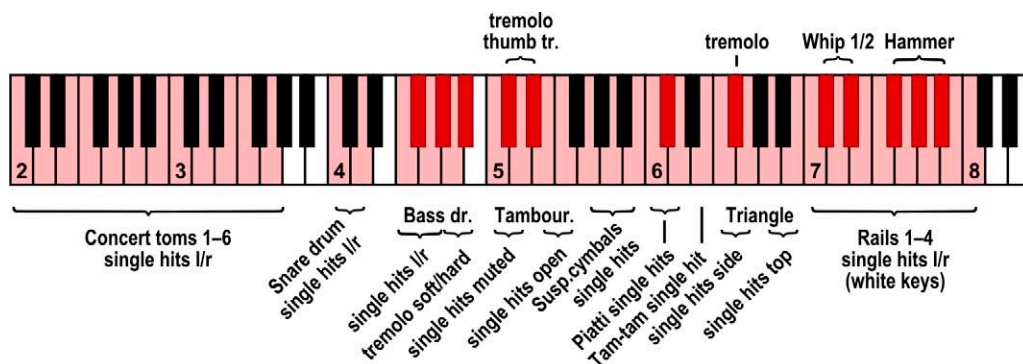
F6–B6: triangle, single hits side and above, var. 1/2

F#6: triangle, tremolo

C7–C8 (white keys): rails 1–4, single hits l/r

C#7–D#7: whip 1/2

F#7–A#7: hammer, repetitions on wood block/board/crate

**11 Drums+Perc_set_dry****Range: C2–C8****Samples: 638****RAM: 39 MB****Level 1**

Drum and Percussion set, dry:

Concert toms, snare drum, bass drum, tambourine, cymbals, piatti, tam-tam, triangle, rails, whip, and hammer

For a mapping image and velocity layers, see the corresponding "wet" Patch

12 velocity layers

Release samples

03 MALLETS + BELLS**01 Celesta_wet****Range: C2–F7****Samples: 264****RAM: 16 MB****[Level 1](#)**

Celesta: Single notes, wet

The samples are mapped an octave lower than they sound

4 velocity layers

02 Glsp_wet**Range: F4–D7****Samples: 204****RAM: 12 MB****[Level 1](#)**

Glockenspiel: Single notes, wet

The samples are mapped an octave lower than they sound

3 velocity layers

2 Alternations

03 Xyl_wet**Range: F4–C7****Samples: 264****RAM: 16 MB****[Level 1](#)**

Xylophone: Single notes, wet

The samples are mapped an octave lower than they sound

3 velocity layers

2 Alternations

04 Tubular_wet**Range: C3–G#5****Samples: 87****RAM: 5 MB****[Level 1](#)**

Tubular bells: Single notes, wet

3 velocity layers

11 Celesta_dry**Range: C2–F7****Samples: 264****RAM: 16 MB****[Level 1](#)**

Celesta: Single notes, dry

The samples are mapped an octave lower than they sound

4 velocity layers

12 Glsp_dry**Range: F4–D7****Samples: 204****RAM: 12 MB****[Level 1](#)**

Glockenspiel: Single notes, dry

The samples are mapped an octave lower than they sound

3 velocity layers

2 Alternations

13 Xyl_dry**Range: F4–C7****Samples: 264****RAM: 16 MB****[Level 1](#)**

Xylophone: Single notes, dry

The samples are mapped an octave lower than they sound

3 velocity layers

2 Alternations

14 Tubular_dry**Range: C3–G#5****Samples: 87****RAM: 5 MB****[Level 1](#)**

Tubular bells: Single notes, dry

3 velocity layers

Matrices

Matrix - LEVEL 1 dry

01 Tmp-A dry

Samples: 800 RAM: 50 MB [Level 1](#)

Dry samples
Timpani: Single hits
AB switch: alternation left/right

02 Tmp-A Roll dry

Samples: 820 RAM: 51 MB [Level 1](#)

Dry samples
Timpani: Rolls
AB switch: alternation left/right

03 Drums+Perc dry

Samples: 638 RAM: 39 MB [Level 1](#)

Dry samples
Concert toms, snare drum, bass drum, tambourine, cymbals, piatti, tam-tam, triangle, rails, whip, and hammer

04 Celesta dry

Samples: 264 RAM: 16 MB [Level 1](#)

Dry samples
Celesta: Single notes
The samples are mapped an octave lower than they sound

05 Glockenspiel dry

Samples: 204 RAM: 12 MB [Level 1](#)

Dry samples
Glockenspiel: Single notes
The samples are mapped an octave lower than they sound

06 Xylophone dry

Samples: 264 RAM: 16 MB [Level 1](#)

Dry samples
Xylophone: Single notes
The samples are mapped an octave lower than they sound

07 Tubular bells dry

Samples: 87 RAM: 5 MB [Level 1](#)

Dry samples
Tubular bells: Single notes

Matrix - LEVEL 1 wet

01 Tmp-A wet

Samples: 799 RAM: 49 MB [Level 1](#)

Wet samples
Timpani: Single hits

02 Tmp-A Roll wet

Samples: 819 RAM: 51 MB [Level 1](#)

Wet samples
Timpani: Rolls

03 Drums+Perc wet	Samples: 634	RAM: 39 MB	Level 1
Wet samples Concert toms, snare drum, bass drum, tambourine, cymbals, piatti, tam-tam, triangle, rails, whip, and hammer			
04 Celesta wet	Samples: 264	RAM: 16 MB	Level 1
Wet samples Celesta: Single notes The samples are mapped an octave lower than they sound			
05 Glockenspiel wet	Samples: 204	RAM: 12 MB	Level 1
Wet samples Glockenspiel: Single notes The samples are mapped an octave lower than they sound			
06 Xylophone wet	Samples: 264	RAM: 16 MB	Level 1
Wet samples Xylophone: Single notes The samples are mapped an octave lower than they sound			
07 Tubular bells wet	Samples: 87	RAM: 5 MB	Level 1
Wet samples Tubular bells: Single notes			
Matrix - LEVEL 1 X-fade			
01 Tmp-A X-Fade	Samples: 1599	RAM: 99 MB	Level 1
Wet and dry samples Timpani: Single hits Cell crossfading between wet and dry samples			
02 Tmp-A Roll X-fade	Samples: 1639	RAM: 102 MB	Level 1
Wet and dry samples Timpani: Rolls Cell crossfading between wet and dry samples			
03 Drums+Perc X-fade	Samples: 1272	RAM: 79 MB	Level 1
Wet and dry samples Concert toms, snare drum, bass drum, tambourine, cymbals, piatti, tam-tam, triangle, rails, whip, and hammer Cell crossfading between wet and dry samples			
04 Celesta X-fade	Samples: 528	RAM: 33 MB	Level 1
Wet and dry samples Celesta: Single notes Cell crossfading between wet and dry samples The samples are mapped an octave lower than they sound			
05 Glockenspiel X-fade	Samples: 408	RAM: 25 MB	Level 1
Wet and dry samples Glockenspiel: Single notes Cell crossfading between wet and dry samples The samples are mapped an octave lower than they sound			

06 Xylophone X-fade**Samples: 528 RAM: 33 MB [Level 1](#)**

Wet and dry samples
 Xylophone: Single notes
 Cell crossfading between wet and dry samples
 The samples are mapped an octave lower than they sound

07 Tubular bells X-fade**Samples: 174 RAM: 10 MB [Level 1](#)**

Wet and dry samples
 Tubular bells: Single notes
 Cell crossfading between wet and dry samples

Presets

Orchestral Percussion Set dry**Samples: 2678 RAM: 167 MB [Level 1](#)**

Dry Patches
 01 Tmp-A
 02 Tmp-A Roll
 04 Celesta
 05 Glockenspiel
 06 Xylophone
 07 Tubular bells
 03 Drums+Perc
 03 Drums+Perc (-6dB)
Keyswitches: C1–G1

Orchestral Percussion Set wet**Samples: 2672 RAM: 167 MB [Level 1](#)**

Wet Patches
 01 Tmp-A
 02 Tmp-A Roll
 04 Celesta
 05 Glockenspiel
 06 Xylophone
 07 Tubular bells
 03 Drums+Perc
 03 Drums+Perc (-6dB)
Keyswitches: C1–G1

Orchestral Percussion Set X-fade**Samples: 5350 RAM: 334 MB [Level 1](#)**

X-fade Patches
 01 Tmp-A
 02 Tmp-A Roll
 04 Celesta
 05 Glockenspiel
 06 Xylophone
 07 Tubular bells
 03 Drums+Perc
 03 Drums+Perc (-6dB)
Keyswitches: C1–G1

81 Timpani

Description

The timpani, or kettledrum, an established member of the symphony orchestra since the 17th century, is the percussion instrument with the longest tradition. It is a skin-covered instrument with definite pitch. As the loudest of all orchestra instruments it requires tremendous precision of the timpanist.

In Romantic and modern works four timpani are usual. In the Classical period one pair was standard.

Range and notation

The kettledrum has a range of about a sixth.

A timpani group composed of several instruments covers approximately two octaves (B1–C3).

In modern-day notation the timpani part is written non-transposing, always in bass clef.

Sound characteristics

Dull, thunderous, booming, deep, heavy, powerful, mellow, velvety, substantial, resonant, round, rumbling, dead, dry, hollow.

Basically the timpani sound is composed of two elements, the attack and the resonance. The resonance of a *mf* tone lasts about 4–5 seconds on the large drum and 3–4 seconds on the small one.

The timbre is determined by three factors: what the mallets are made of, where the head is struck and how hard the head is struck.

Combination with other instruments

Played in *unison* and in *unison* with additional octave doubling with the bass instruments of the other instrument groups (bassoon, bass clarinet, cello, double bass, bass trombone and bass tuba) the timpani produce a fairly homogeneous blend.

Timpani and trumpets form a pairing rooted in history; the significance of their sound and symbolism lies in the tonal development of magnificence: the timpani form a powerful base upon which stirring trumpet fanfares resound. There is no tonal blend between the two instruments, their sounds complement each other to marvelous effect.

All the sound combinations with the woodwinds develop best in *piano* passages.

The strings' tremolo chords, played over a foundation of timpani rolls, are tremendously dramatic and one of this combination's most thrilling effects.

Patches

01 TIMPANI - A

Level 1: Single hits normal and secco

1–3 upbeats

Rolls normal and strong dynamics (1, 2, 4, and 6 sec.)

Level 2: Glissandos 4th and 5th, up and down

Performance repetitions slow and fast

Rolls medium dynamics (1–6 sec.), strong dynamics (3 sec.)

Rolls glissandos 4th and 5th, up and down

01 TIMPANI - A/01 Standard Mallet

01 Tmp-A_Single-Hits

Range: A#1–C7

Samples: 800

RAM: 50 MB

Level 1

Single hits, normal

8 velocity layers: 0–15 ppp, 16–35 pp, 36–55 p, 56–70 mp, 71–88 mf, 89–108 f, 109–118 ff, 119–127 fff

4 Alternations

AB switch: alternation left/right

Mapping:

A#1–C4: left hand/(right hand)

A#4–C7: right hand



A: left hand
B: left/right hand

A: right hand

02 Tmp-A_Single-Hits_secco

Range: A#1–C7

Samples: 400

RAM: 25 MB

Level 1

Single hits, secco

8 velocity layers: 0–15 ppp, 16–35 pp, 36–55 p, 56–70 mp, 71–88 mf, 89–108 f, 109–118 ff, 119–127 fff

2 Alternations

AB switch: alternation left/right

Mapping:

A#1–C4: left hand/(right hand)

A#4–C7: right hand



A: left hand
B: left/right hand

A: right hand

11 Tmp-A_Gliss_5-up

Range: C2–G3

Samples: 40

RAM: 2 MB

Level 2

Single hits, glissando: 4th up

4 velocity layers

12 Tmp-A_Gliss_7-up

Range: C2–F3

Samples: 40

RAM: 2 MB

Level 2

Single hits, glissando: 5th up

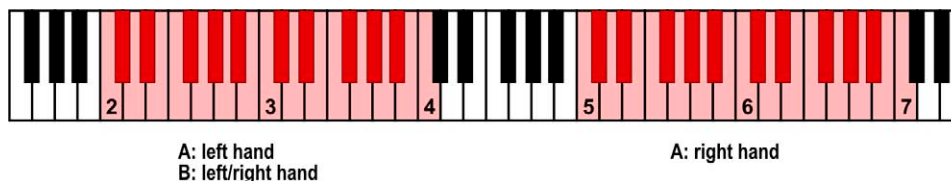
4 velocity layers

13 Tmp-A_Gliss_5-do Single hits, glissando: 4th down 4 velocity layers	Range: F2–C4	Samples: 40	RAM: 2 MB	Level 2
14 Tmp-A_Gliss_7-do Single hits, glissando: 5th down 4 velocity layers	Range: G2–C4	Samples: 40	RAM: 2 MB	Level 2
21 Tmp-A_UB-a1 Upbeats: 1 upbeat 4 velocity layers	Range: C2–C4	Samples: 52	RAM: 3 MB	Level 1
22 Tmp-A_UB-a2 Upbeats: 2 upbeats 4 velocity layers	Range: C2–C4	Samples: 52	RAM: 3 MB	Level 1
23 Tmp-A_UB-a3 Upbeats: 3 upbeats 4 velocity layers	Range: C2–C4	Samples: 52	RAM: 3 MB	Level 1
31 Tmp-A_perf-rep_slow Performance repetitions, slow 4 velocity layers AB switch: alternation left/right	Range: C2–C7	Samples: 416	RAM: 26 MB	Level 2

Mapping:

C2–C4: left hand/(right hand)

C5–C7: right hand

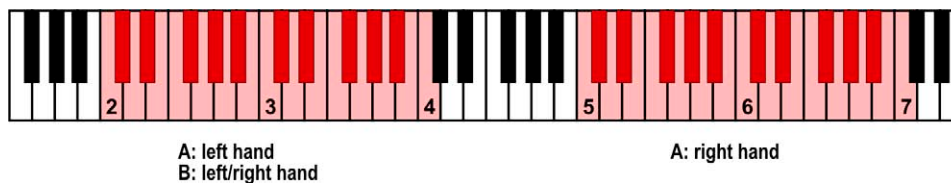


32 Tmp-A_perf-rep_fast Performance repetitions, fast 4 velocity layers AB switch: alternation left/right	Range: C2–C7	Samples: 416	RAM: 26 MB	Level 2
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Mapping:

C2–C4: left hand/(right hand)

C5–C7: right hand



01 TIMPANI - A/02 Standard Mallet Rolls

01 Tmp-A_Roll

Range: A#1–C7 Samples: 820 RAM: 51 MB **Level 1**

Rolls and single hits (2 alternations)

Velocity mapping:

Rolls, 6 layers: 0–35 pp, 36–55 p, 56–70 mp, 71–88 mf, 89–108 f, 109–127 ff

Single hits, 8 layers: 0–15 ppp, 16–35 pp, 36–55 p, 56–70 mp, 71–88 mf, 89–108 f, 109–118 ff, 119–127 fff

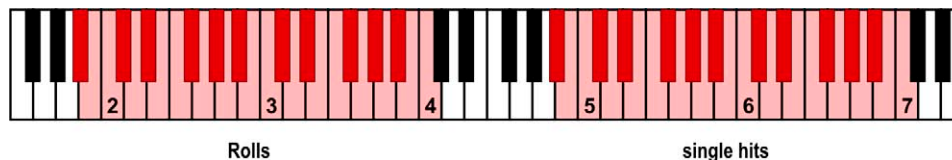
Release samples

AB switch: release duration long/short

Mapping:

A#1–C4: rolls

A#4–C7: single hits



02 Tmp-A_Roll_dyn-me_1s

Range: C2–C4 Samples: 52 RAM: 3 MB **Level 2**

Rolls, dynamics medium: 1 sec. tone length

2 velocity layers

AB switch: crescendo/diminuendo

03 Tmp-A_Roll_dyn-me_2s

Range: C2–C4 Samples: 52 RAM: 3 MB **Level 2**

Rolls, dynamics medium: 2 sec. tone length

2 velocity layers

AB switch: crescendo/diminuendo

04 Tmp-A_Roll_dyn-me_3s

Range: C2–C4 Samples: 52 RAM: 3 MB **Level 2**

Rolls, dynamics medium: 3 sec. tone length

2 velocity layers

AB switch: crescendo/diminuendo

05 Tmp-A_Roll_dyn-me_4s

Range: C2–C4 Samples: 52 RAM: 3 MB **Level 2**

Rolls, dynamics medium: 4 sec. tone length

2 velocity layers

AB switch: crescendo/diminuendo

06 Tmp-A_Roll_dyn-me_6s

Range: C2–C4 Samples: 52 RAM: 3 MB **Level 2**

Rolls, dynamics medium: 6 sec. tone length

2 velocity layers

AB switch: crescendo/diminuendo

07 Tmp-A_Roll_dyn-str_1s

Range: C2–C4 Samples: 26 RAM: 1 MB **Level 1**

Rolls, dynamics strong: 1 sec. tone length

1 velocity layer

AB switch: crescendo/diminuendo

08 Tmp-A_Roll_dyn-str_2s

Range: C2–C4 Samples: 26 RAM: 1 MB **Level 1**

Rolls, dynamics strong: 2 sec. tone length

1 velocity layer

AB switch: crescendo/diminuendo

09 Tmp-A_Roll_dyn-str_3s	Range: C2–C4	Samples: 26	RAM: 1 MB	Level 2
Rolls, dynamics strong: 3 sec. tone length 1 velocity layer AB switch: crescendo/diminuendo				
10 Tmp-A_Roll_dyn-str_4s	Range: C2–C4	Samples: 26	RAM: 1 MB	Level 1
Rolls, dynamics strong: 4 sec. tone length 1 velocity layer AB switch: crescendo/diminuendo				
11 Tmp-A_Roll_dyn-str_6s	Range: C2–C4	Samples: 26	RAM: 1 MB	Level 1
Rolls, dynamics strong: 6 sec. tone length 1 velocity layer AB switch: crescendo/diminuendo				
21 Tmp-A_Roll_Gliss_5-up	Range: C2–G3	Samples: 30	RAM: 1 MB	Level 2
Rolls, glissando: 4th up 3 velocity layers				
22 Tmp-A_Roll_Gliss_7-up	Range: C2–F3	Samples: 30	RAM: 1 MB	Level 2
Rolls, glissando: 5th up 3 velocity layers				
23 Tmp-A_Roll_Gliss_5-do	Range: F2–C4	Samples: 30	RAM: 1 MB	Level 2
Rolls, glissando: 4th down 3 velocity layers				
24 Tmp-A_Roll_Gliss_7-do	Range: G2–C4	Samples: 30	RAM: 1 MB	Level 2
Rolls, glissando: 5th down 3 velocity layers				

02 TIMPANI - B

02 TIMPANI - B/01 Medium Mallet

Level 2: Single hits normal, secco, coperto
 Glissandos, 1 and 2 sec.; up, minor 2nd to 4th; down
 1–4 upbeats
 Performance repetitions slow, medium, and fast
 Rolls normal and short
 Rolls medium and strong dynamics, 1, 2, and 3 sec.
 Rolls glissandos, 1 and 2 sec.; up, minor 2nd to 4th; down

01 Tmp-B_ME_Single-Hits

Range: B1–A#6

Samples: 276

RAM: 17 MB

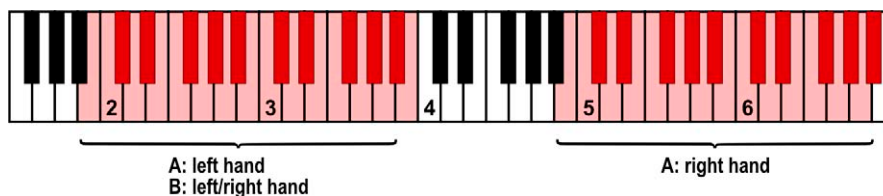
Level 2

Single hits, normal
 6 velocity layers: 0–35 pp, 36–55 p, 56–70 mp, 71–88 mf, 89–108 f, 109–127 ff
 2 Alternations
 AB switch: alternation left/right

Mapping:

B1–A#3: left hand/(right hand)

B4–A#6: right hand



02 Tmp-B_ME_Single-Hits_secco

Range: C2–A#6

Samples: 57

RAM: 3 MB

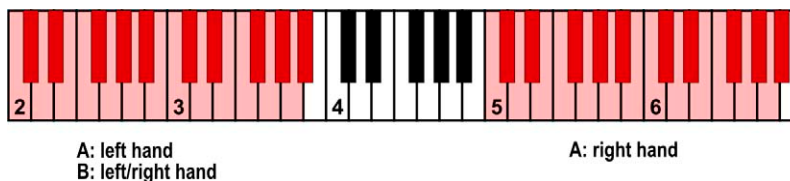
Level 2

Single hits, secco
 3 velocity layers
 2 Alternations
 AB switch: alternation left/right

Mapping:

C2–A#3: left hand/(right hand)

C5–A#6: right hand



03 Tmp-B_ME_Single-Hits_coperto**Range: C2–A#6****Samples: 114****RAM: 7 MB****Level 2**

Single hits, coperto

3 velocity layers

2 Alternations

AB switch: alternation left/right

Mapping:

C2–A#3: left hand/(right hand)

C5–A#6: right hand

**11 Tmp-B_ME_Gliss-1s_1-up****Range: C2–A3****Samples: 16****RAM: 1 MB****Level 2**

Single hits, glissando: Min. 2nd up, 1 sec. tone length

2 velocity layers

12 Tmp-B_ME_Gliss-1s_2-up**Range: C2–A3****Samples: 14****RAM: 1 MB****Level 2**

Single hits, glissando: Maj. 2nd up, 1 sec. tone length

2 velocity layers

13 Tmp-B_ME_Gliss-1s_3-up**Range: C2–A3****Samples: 13****RAM: 1 MB****Level 2**

Single hits, glissando: Min. 3rd up, 1 sec. tone length

2 velocity layers

14 Tmp-B_ME_Gliss-1s_4-up**Range: C2–G#3****Samples: 13****RAM: 1 MB****Level 2**

Single hits, glissando: Maj. 3rd up, 1 sec. tone length

2 velocity layers

15 Tmp-B_ME_Gliss-1s_5-up**Range: C2–G3****Samples: 12****RAM: 1 MB****Level 2**

Single hits, glissando: 4th up, 1 sec. tone length

2 velocity layers

16 Tmp-B_ME_Gliss-1s_do**Range: D2–F3****Samples: 9****RAM: 1 MB****Level 2**

Single hits, glissando: Min. 2nd down, 1 sec. tone length

2 velocity layers

17 Tmp-B_ME_Gliss-2s_1-up**Range: C2–F3****Samples: 12****RAM: 1 MB****Level 2**

Single hits, glissando: Min. 2nd up, 2 sec. tone length

2 velocity layers

18 Tmp-B_ME_Gliss-2s_2-up**Range: C2–F3****Samples: 12****RAM: 1 MB****Level 2**

Single hits, glissando: Maj. 2nd up, 2 sec. tone length

2 velocity layers

19 Tmp-B_ME_Gliss-2s_3-up**Range: C2–F3****Samples: 12****RAM: 1 MB****Level 2**

Single hits, glissando: Min. 3rd up, 2 sec. tone length

2 velocity layers

20 Tmp-B_ME_Gliss-2s_4-up	Range: C2–F3	Samples: 12	RAM: 1 MB	Level 2
Single hits, glissando: Maj. 3rd up, 2 sec. tone length 2 velocity layers				
21 Tmp-B_ME_Gliss-2s_5-up	Range: C2–F3	Samples: 12	RAM: 1 MB	Level 2
Single hits, glissando: 4th up, 2 sec. tone length 2 velocity layers				
22 Tmp-B_ME_Gliss-2s_do	Range: D#2–F3	Samples: 9	RAM: 1 MB	Level 2
Single hits, glissando: Min. 2nd down, 2 sec. tone length 2 velocity layers				
31 Tmp-B_ME_UB-a1	Range: C2–A#3	Samples: 30	RAM: 1 MB	Level 2
Upbeats: 1 upbeat 3 velocity layers				
32 Tmp-B_ME_UB-a2	Range: C2–A#3	Samples: 30	RAM: 1 MB	Level 2
Upbeats: 2 upbeats 3 velocity layers				
33 Tmp-B_ME_UB-a3	Range: C2–A#3	Samples: 30	RAM: 1 MB	Level 2
Upbeats: 3 upbeats 3 velocity layers				
34 Tmp-B_ME_UB-a4	Range: C2–A#3	Samples: 30	RAM: 1 MB	Level 2
Upbeats: 4 upbeats 3 velocity layers				
35 Tmp-B_perf-rep_slow (medium/fast)	Range: C2–A#6	Samples: 264	RAM: 16 MB	Level 2
Performance repetitions, slow/medium/fast 3 velocity layers AB switch: alternation left/right				
Mapping: C2–A#3: left hand/(right hand) C5–A#6: right hand				



A: left hand
B: left/right hand

A: right hand

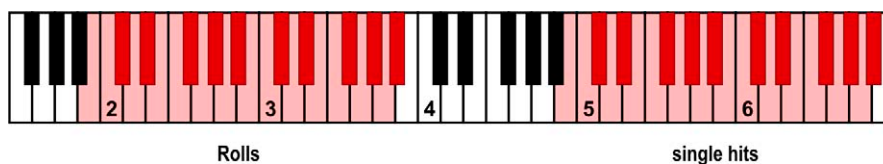
02 TIMPANI - B/02 Medium Mallet Rolls

01 Tmp-B_ME_Roll	Range: B1–A#6	Samples: 393	RAM: 24 MB	Level 2
Rolls and single hits Velocity mapping: Rolls, 4 layers Single hits, 6 layers Release samples AB switch: release duration long/short				

Mapping:

B1–A#3: Rolls

B4–A#6: Single hits

**02 Tmp-B_ME_Roll_short****Range: B1–A#6****Samples: 393****RAM: 24 MB****Level 2**

Short rolls and single hits

Velocity mapping:

Rolls, 4 layers

Single hits, 6 layers

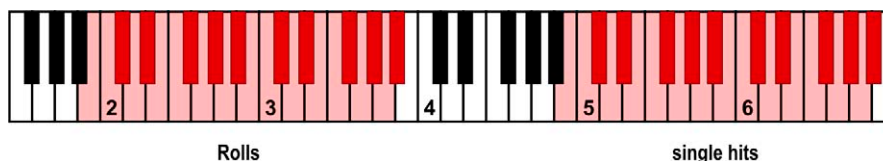
Release samples

AB switch: release duration long/short

Mapping:

B1–A#3: Rolls

B4–A#6: Single hits

**03 Tmp-B_ME_Roll_dyn-me_1s****Range: C2–A#3****Samples: 44****RAM: 2 MB****Level 2**

Rolls, dynamics medium, 1 sec. tone length

2 velocity layers

AB switch: crescendo/diminuendo

04 Tmp-B_ME_Roll_dyn-me_2s**Range: C2–A#3****Samples: 44****RAM: 2 MB****Level 2**

Rolls, dynamics medium, 2 sec. tone length

2 velocity layers

AB switch: crescendo/diminuendo

05 Tmp-B_ME_Roll_dyn-me_4s**Range: C2–A#3****Samples: 44****RAM: 2 MB****Level 2**

Rolls, dynamics medium, 4 sec. tone length

2 velocity layers

AB switch: crescendo/diminuendo

06 Tmp-B_ME_Roll_dyn-str_1s**Range: C2–A#3****Samples: 22****RAM: 1 MB****Level 2**

Rolls, dynamics strong, 1 sec. tone length

1 velocity layer

AB switch: crescendo/diminuendo

07 Tmp-B_ME_Roll_dyn-str_2s**Range: C2–A#3****Samples: 22****RAM: 1 MB****Level 2**

Rolls, dynamics strong, 2 sec. tone length

1 velocity layer

AB switch: crescendo/diminuendo

08 Tmp-B_ME_Roll_dyn-str_4s	Range: C2-A#3	Samples: 22	RAM: 1 MB	Level 2
Rolls, dynamics strong, 4 sec. tone length 1 velocity layer AB switch: crescendo/diminuendo				
11 Tmp-B_ME_Roll_Gliss-1s_1-up	Range: C2-F#3	Samples: 13	RAM: 1 MB	Level 2
Rolls, glissando: Min. 2nd up, 1 sec. tone length 2 velocity layers				
12 Tmp-B_ME_Roll_Gliss-1s_2-up	Range: C2-F#3	Samples: 13	RAM: 1 MB	Level 2
Rolls, glissando: Maj. 2nd up, 1 sec. tone length 2 velocity layers				
13 Tmp-B_ME_Roll_Gliss-1s_3-up	Range: C2-F#3	Samples: 13	RAM: 1 MB	Level 2
Rolls, glissando: Min. 3rd up, 1 sec. tone length 2 velocity layers				
14 Tmp-B_ME_Roll_Gliss-1s_4-up	Range: C2-F#3	Samples: 13	RAM: 1 MB	Level 2
Rolls, glissando: Maj. 3rd up, 1 sec. tone length 2 velocity layers				
15 Tmp-B_ME_Roll_Gliss-1s_5-up	Range: C2-F#3	Samples: 13	RAM: 1 MB	Level 2
Rolls, glissando: 4th up, 1 sec. tone length 2 velocity layers				
16 Tmp-B_ME_Roll_Gliss-1s_do	Range: D2-F3	Samples: 9	RAM: 1 MB	Level 2
Rolls, glissando: Min. 2nd down, 1 sec. tone length 2 velocity layers				
17 Tmp-B_ME_Roll_Gliss-2s_1-up	Range: C2-F#3	Samples: 13	RAM: 1 MB	Level 2
Rolls, glissando: Min. 2nd up, 2 sec. tone length 2 velocity layers				
18 Tmp-B_ME_Roll_Gliss-2s_2-up	Range: C2-F#3	Samples: 13	RAM: 1 MB	Level 2
Rolls, glissando: Maj. 2nd up, 2 sec. tone length 2 velocity layers				
19 Tmp-B_ME_Roll_Gliss-2s_3-up	Range: C2-F#3	Samples: 13	RAM: 1 MB	Level 2
Rolls, glissando: Min. 3rd up, 2 sec. tone length 2 velocity layers				
20 Tmp-B_ME_Roll_Gliss-2s_4-up	Range: C2-F#3	Samples: 13	RAM: 1 MB	Level 2
Rolls, glissando: Maj. 3rd up, 2 sec. tone length 2 velocity layers				
21 Tmp-B_ME_Roll_Gliss-2s_5-up	Range: C2-F#3	Samples: 13	RAM: 1 MB	Level 2
Rolls, glissando: 4th up, 2 sec. tone length 2 velocity layers				

22 Tmp-B_ME_Roll_Gliss-2s_do

Range: D#2–E3

Samples: 8

RAM: 1 MB

Level 2

Rolls, glissando: Min. 2nd down, 2 sec. tone length
2 velocity layers

02 TIMPANI - B/03 Hard Mallet**Level 2:** Single hits

1–4 upbeats

Rolls normal and strong dynamics (1, 2, and 4 sec.)

01 Tmp-B_HA_Single-Hits

Range: C2–A#6

Samples: 80

RAM: 5 MB

Level 2

Single hits

4 velocity layers

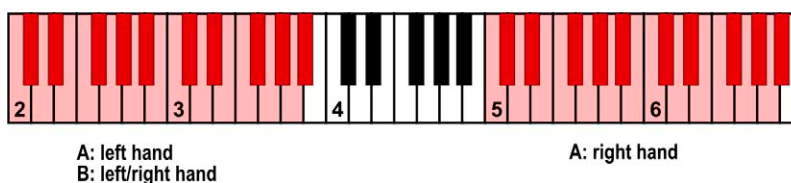
2 Alternations

AB switch: alternation left/right

Mapping:

C2–A#3: left hand/(right hand)

C5–A#6: right hand

**02 Tmp-B_HA_UB-a1**

Range: C2–A#3

Samples: 30

RAM: 1 MB

Level 2

Upbeats: 1 upbeat

3 velocity layers

03 Tmp-B_HA_UB-a2

Range: C2–A#3

Samples: 30

RAM: 1 MB

Level 2

Upbeats: 2 upbeats

3 velocity layers

04 Tmp-B_HA_UB-a3

Range: C2–A#3

Samples: 30

RAM: 1 MB

Level 2

Upbeats: 3 upbeats

3 velocity layers

05 Tmp-B_HA_UB-a4

Range: C2–A#3

Samples: 30

RAM: 1 MB

Level 2

Upbeats: 4 upbeats

3 velocity layers

02 TIMPANI - B/04 Hard Mallet Rolls

01 Tmp-B_HA_Roll

Range: C2–A#6 Samples: 130 RAM: 8 MB **Level 2**

Rolls and single hits

Velocity mapping:

Rolls, 3 layers

Single hits, 4 layers

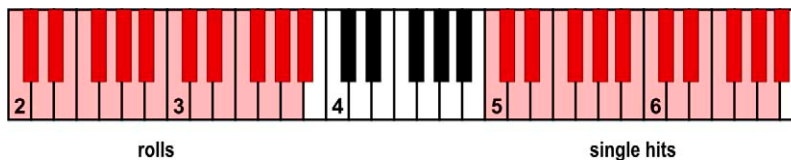
Release samples

AB switch: release duration long/short

Mapping:

C2–A#3: Rolls

C5–A#6: Single hits



02 Tmp-B_HA_Roll_dyn-str_1s

Range: C2–A#3 Samples: 20 RAM: 1 MB **Level 2**

Rolls, dynamics strong, 1 sec. tone length

1 velocity layer

AB switch: crescendo/diminuendo

03 Tmp-B_HA_Roll_dyn-str_2s

Range: C2–A#3 Samples: 20 RAM: 1 MB **Level 2**

Rolls, dynamics strong, 2 sec. tone length

1 velocity layer

AB switch: crescendo/diminuendo

04 Tmp-B_HA_Roll_dyn-str_4s

Range: C2–A#3 Samples: 20 RAM: 1 MB **Level 2**

Rolls, dynamics strong, 4 sec. tone length

1 velocity layer

AB switch: crescendo/diminuendo

02 TIMPANI - B/05 Wood Mallet

Level 2: Single hits

1–4 upbeats

Rolls normal and strong dynamics (1, 2, and 4 sec.)

01 Tmp-B_WO_Single-Hits

Range: C2–A#6 Samples: 88 RAM: 5 MB **Level 2**

Single hits

4 velocity layers

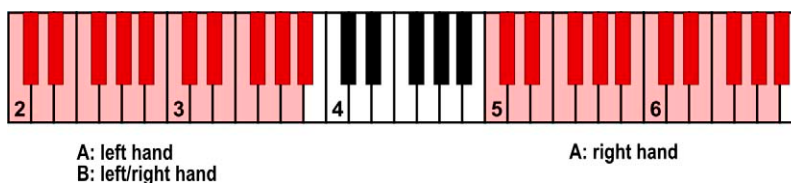
2 Alternations

AB switch: alternation left/right

Mapping:

C2–A#3: left hand/(right hand)

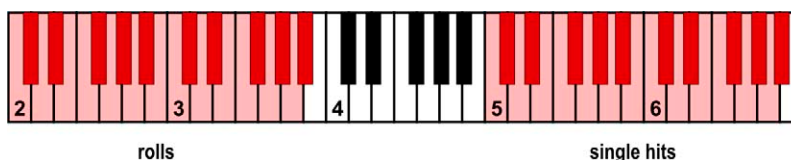
C5–A#6: right hand



02 Tmp-B_WO_UB-a1	Range: C2–A#3	Samples: 33	RAM: 2 MB	Level 2
Upbeats: 1 upbeat 3 velocity layers				
03 Tmp-B_WO_UB-a2	Range: C2–A#3	Samples: 33	RAM: 2 MB	Level 2
Upbeats: 2 upbeats 3 velocity layers				
04 Tmp-B_WO_UB-a3	Range: C2–A#3	Samples: 33	RAM: 2 MB	Level 2
Upbeats: 3 upbeats 3 velocity layers				
05 Tmp-B_WO_UB-a4	Range: C2–A#3	Samples: 33	RAM: 2 MB	Level 2
Upbeats: 4 upbeats 3 velocity layers				

02 TIMPANI - B/06 Wood Mallet Rolls

01 Tmp-B_WO_Roll	Range: C2–A#6	Samples: 134	RAM: 8 MB	Level 2
Rolls and single hits Velocity mapping: Rolls, 3 layers Single hits, 4 layers Release samples AB switch: release duration long/short				
Mapping: C2–A#3: Rolls C5–A#6: Single hits				



02 Tmp-B_WO_Roll_dyn-str_1s	Range: C2–A#3	Samples: 22	RAM: 1 MB	Level 2
Rolls, dynamics strong, 1 sec. tone length 1 velocity layer AB switch: crescendo/diminuendo				
03 Tmp-B_WO_Roll_dyn-str_2s	Range: C2–A#3	Samples: 22	RAM: 1 MB	Level 2
Rolls, dynamics strong, 2 sec. tone length 1 velocity layer AB switch: crescendo/diminuendo				
04 Tmp-B_WO_Roll_dyn-str_4s	Range: C2–A#3	Samples: 22	RAM: 1 MB	Level 2
Rolls, dynamics strong, 4 sec. tone length 1 velocity layer AB switch: crescendo/diminuendo				

02 TIMPANI - B/07 Medium Hard Mallet

Level 2: Single hits

01 Tmp-B_MHA_Single-Hits

Range: C2–A#6

Samples: 100

RAM: 6 MB

Level 2

Single hits

5 velocity layers

2 Alternations

AB switch: alternation left/right

Mapping:

C2–A#3: left hand/(right hand)

C5–A#6: right hand



02 TIMPANI - B/08 Felt Mallet

Level 2: Single hits

01 Tmp-B_FE_Single-Hits

Range: C2–A#6

Samples: 100

RAM: 6 MB

Level 2

Single hits

5 velocity layers

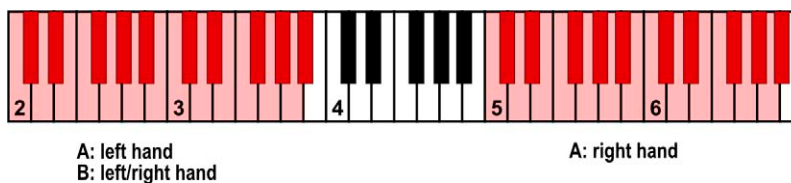
2 Alternations

AB switch: alternation left/right

Mapping:

C2–A#3: left hand/(right hand)

C5–A#6: right hand



02 TIMPANI - B/09 Finger**Level 2:** Single hits**01 Tmp-B_FI_Single-Hits****Range:** C2–A#6**Samples:** 44**RAM:** 2 MB**Level 2**

Single hits

2 velocity layers

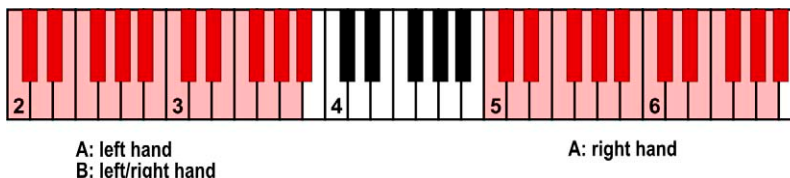
2 Alternations

AB switch: alternation left/right

Mapping:

C2–A#3: left hand/(right hand)

C5–A#6: right hand

**Matrices****Matrix - LEVEL 1****L1 Tmp-A Combi****Samples:** 1880 **RAM:** 117 MB**Level 1**

Single hits, normal and secco

1–3 upbeats

Rolls normal and dynamics, 1, 2, 4, and 6 sec.

Matrix switches: Horizontal: Keyswitches, C1–A1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1
V1	hits normal	hits secco	1 upbeat	2 upbeats	3 upbeats	rolls normal	rolls dyn. 1 sec.	rolls dyn. 2 sec.	rolls dyn. 4 sec.	rolls dyn. 6 sec.

Matrix - LEVEL 2**01 Tmp-A Combi****Samples:** 2888 **RAM:** 180 MB**Level 2**

Single hits, normal and secco

Performance repetitions

Glissandos

1–3 upbeats

Rolls normal and glissando

Matrix switches: Horizontal: Keyswitches, C1–A1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1
V1	hits normal	perf.rep. slow	gliss. up, 4th	gliss. up, 5th	1 upbeat	2 upbeats	3 upbeats	rolls normal	rolls gliss. up, 4th	rolls gliss. up, 5th
V2	hits secco	perf.rep. fast	gliss. down, 4th	gliss. down, 5th	1 upbeat	2 upbeats	3 upbeats	rolls normal	rolls gliss. down, 4th	rolls gliss. down, 5th

02 Tmp-A Dynamics-Roll**Samples: 390 RAM: 24 MB Level 2**

Rolls, medium and strong dynamics, 1, 2, 3, 4, and 6 sec.

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
medium dyn.	1 sec.	2 sec.	3 sec.	4 sec.	6 sec.
strong dyn.	1 sec.	2 sec.	3 sec.	4 sec.	6 sec.

11 Tmp-B Mallet-medium Combi**Samples: 1376 RAM: 86 MB Level 2**

Single hits, normal and secco

Performance repetitions

Glissando

1–3 upbeats

Rolls normal and glissando

Matrix switches: Horizontal: Keyswitches, C1–A1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1
V1	hits normal	perf.rep. slow	gliss. up 4th, 1 sec.	gliss. up 4th, 2 sec.	1 upbeat	2 upbeats	3 upbeats	rolls normal	rolls gliss. up 4th, 1 sec.	rolls gliss. up 4th, 2 sec.
V2	hits secco	perf.rep. fast	gliss. down, 1 sec.	gliss. down, 2 sec.	1 upbeat	2 upbeats	3 upbeats	rolls normal	rolls gliss. down, 1 sec.	rolls gliss. down, 2 sec.

12 Tmp-B Mallet-medium Dynamics-Roll**Samples: 198 RAM: 12 MB Level 2**

Rolls, medium and strong dynamics, 1, 2, and 4 sec.

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 2 zones

	C1	C#1	D1
medium dyn.	1 sec.	2 sec.	4 sec.
strong dyn.	1 sec.	2 sec.	4 sec.

13 Tmp-B Mallet-medium Glissandi**Samples: 146 RAM: 9 MB Level 2**

Glissandos, 1 and 2 sec.

Up, min. 2nd–4th, and down

Matrix switches: Horizontal: Keyswitches, C1–F1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1
gliss. 1 sec.	min. 2nd up	maj. 2nd up	min. 3rd up	maj. 3rd up	4th up	down
gliss. 2 sec.	min. 2nd up	maj. 2nd up	min. 3rd up	maj. 3rd up	4th up	down

14 Tmp-B Mallet-medium Glissandi-Roll**Samples: 147 RAM: 9 MB Level 2**

Glissando rolls, 1 and 2 sec.

Up, min. 2nd–4th, and down

Matrix switches: Horizontal: Keyswitches, C1–F1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1
gliss. 1 sec.	min. 2nd up	maj. 2nd up	min. 3rd up	maj. 3rd up	4th up	down
gliss. 2 sec.	min. 2nd up	maj. 2nd up	min. 3rd up	maj. 3rd up	4th up	down

15 Tmp-B Mallet-hard Combi**Samples: 320 RAM: 20 MB Level 2**

Single hits

1–3 upbeats

Rolls normal and dynamics, 1, 2, and 4 sec.

Matrix switches: Horizontal: Keyswitches, C1–G1

	C1	C#1	D1	D#1	E1	F1	F#1	G1
V1	hits normal	1 upbeat	2 upbeats	3 upbeats	rolls normal	rolls dyn. 1 sec.	rolls dyn. 2 sec.	rolls dyn. 4 sec.

16 Tmp-B Mallet-wood Combi**Samples: 343 RAM: 21 MB Level 2**

Single hits

1–3 upbeats

Rolls normal and dynamics, 1, 2, and 4 sec.

Matrix switches: Horizontal: Keyswitches, C1–G1

	C1	C#1	D1	D#1	E1	F1	F#1	G1
V1	hits normal	1 upbeat	2 upbeats	3 upbeats	rolls normal	rolls dyn. 1 sec.	rolls dyn. 2 sec.	rolls dyn. 4 sec.

17 Tmp-B Mallet-additionals**Samples: 244 RAM: 15 MB Level 2**

Single hits with medium hard mallets, felt mallets, and fingers

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
V1	medium hard mallets	felt mallets	fingers

Presets**Tmp-A VSL Preset Level 1****Samples: 1880 RAM: 117 MB Level 1**

Matrix: L1 Tmp-A Combi

Tmp-A VSL Preset Level 2**Samples: 3278 RAM: 204 MB Level 2****Matrices:**

01 Tmp-A Combi

02 Tmp-A Dynamics-Roll

Keyswitches: E7–F7**Tmp-B VSL Preset Level 2****Samples: 2689 RAM: 168 MB Level 2****Matrices:**

11 Tmp-B Mallet-medium Combi

12 Tmp-B Mallet-medium Dynamics-Roll

13 Tmp-B Mallet-medium Glissandi

14 Tmp-B Mallet-medium Glissandi-Roll

21 Tmp-B Mallet-hard Combi

16 Tmp-B Mallet-wood Combi

17 Tmp-B Mallet-additionals

Keyswitches: E7–A#7

82 Drums - Toms

In most cultures, the drum in its various forms is the most important and rudimentary percussion.

The **snare drum** is found in practically every type of western music from military music (where its roots lie) to jazz or the drum kits of rock and pop. At the same time the snare drum is a crucial member of the orchestral percussion section. Extremely shallow versions of the snare drum have become known as piccolo snare drums.

The **bass drum** plays an essential role in several western musical styles as well. Its variable timbre can be used to mark the rhythm not only in large orchestras but also in small ensembles: in military music, where it is played together with the cymbal, or in pop, rock and jazz, where it is played using the bass pedal as part of the drum kit.

The **field drum** or **tenor drum** is used in the orchestra as well as in military and wind bands. It ranks between the snare drum and the bass drum in both size and pitch. Depending on the region it may be snared or unsnared.

The **tambourine** has been an important folk instrument in many European cultures from time immemorial. Today it is especially common in Mediterranean countries where it serves as a rhythm instrument accompanying songs and dances. It is either struck with the hand or shaken. In the orchestra, where it is used as a rhythm and noise instrument to add color and suggest dance scenes, it has had a place since the 19th century.

Patches

01 SNARE DRUM - A

Level 1: Snare on and off

Rimshots, single hits, Performance repetitions, rebounds, upbeats, upbeat rolls, rolls normal and dynamics

Level 2: Snare on and off

Performance repetitions dynamics, slow, medium, fast

01 Snare-A_on

Range: C2-A#7

Samples: 333

RAM: 20 MB

Level 1

Rimshots

Single hits (4 Alternations)

Performance repetitions at 60, 120, and 113 BPM

Press rolls

Upbeats, upbeat rolls

Rolls normal and dynamics

Velocity mapping:

Single hits, 12 layers: 0–10 ppppp, 11–20 pppp, 21–30 ppp, 31–40 pp, 41–50 p, 51–60 mp, 61–70 mf, 71–80 f, 81–90 ff, 91–100 fff, 101–110 ffff, 111–127 fffff

Repetitions and tied trills, 6 layers: 0–30 pppp, 31–50 pp, 51–70 mp, 71–90 f, 91–110 ff, 111–127 fffff

All others, 2–5 layers

Release samples

4 Alternations

AB switch: crescendo/diminuendo

Mapping:

C2–D2: Rim clicks, l/r

E2–F2: Rim head, l/r

G2–A2: Rim shaft, l/r

C3–D3: Rim SOS, l/r

E3–F3: Rim SOSOR (l/r) C4–D4: Single hits, l/r

F4–D5: Performance repetitions, slow/medium/fast, alternating (lower key left hand, higher key right hand)

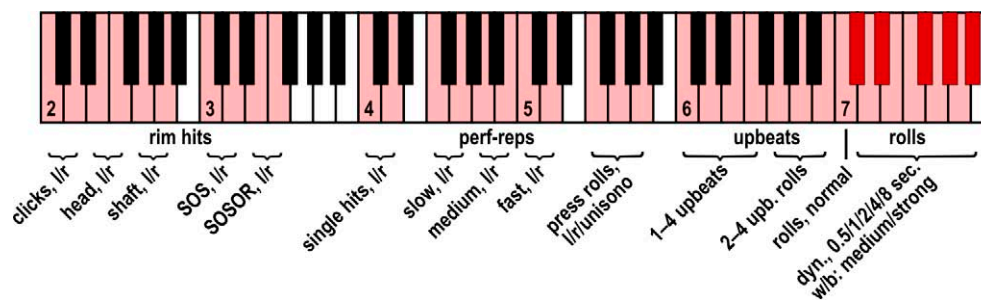
F5–A5: press rolls, left/right/unisono

C6–F6: 1–4 upbeats

G6–B6: 2–4 upbeat rolls

C7: Rolls normal

C#7–A#7: Rolls, strong and medium dynamics, 0.5, 1, 2, 4, and 8 sec. (AB switch, strong dyn. on black keys)



02 Snare-A_on_perf-rep_dyn9**Range: C3-A5****Samples: 162****RAM: 10 MB****Level 2**

Performance repetitions

Dynamics, 9 repetitions

Slow, fast, and medium (60, 120, and 113 BPM)

1 velocity layer

Mapping:

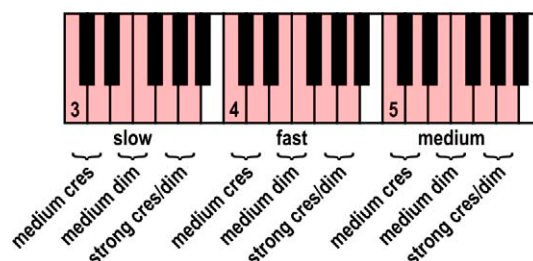
C-D – medium crescendo; E-F – medium diminuendo

G – strong crescendo; A – strong diminuendo

C3-A3: Slow

C4-A4: fast

C5-A5: medium speed

**03 Snare-A_off****Range: C4-G#7****Samples: 206****RAM: 12 MB****Level 1**

Single hits (4 Alternations)

Performance repetitions at 120 and 240 BPM

Upbeats, upbeat rolls

Rolls normal and dynamics

Velocity mapping:

Single hits, 12 layers: 0-10 ppppp, 11-20 pppp, 21-30 ppp, 31-40 pp, 41-50 p, 51-60 mp, 61-70 mf, 71-80 f, 81-90 ff, 91-100 fff, 101-110 ffff, 111-127 fffff

Repetitions, 5 layers: 0-50 pp, 51-70 mp, 71-90 f, 91-110 fff, 111-127 fffff

Upbeats and normal rolls, 6 layers: 0-30 pppp, 31-50 pp, 51-70 mp, 71-90 f, 91-110 fff, 111-127 fffff

Release samples

4 Alternations

AB switch: crescendo/diminuendo

Mapping:

C4-D4: Single hits, l/r

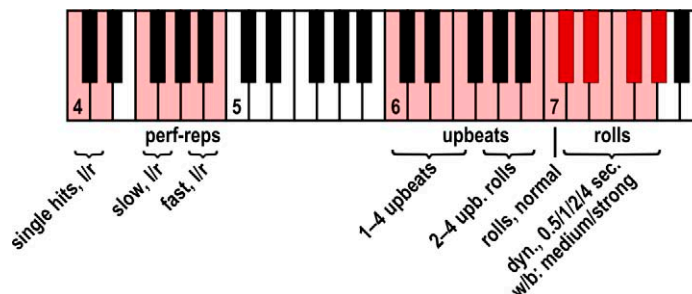
F4-B4: performance repetitions, slow/fast, alternating (lower key left hand, higher key right hand)

C6-F6: 1-4 upbeats

G6-B6: 2-4 upbeat rolls

C7: Rolls normal

C#7-G#7: Rolls, strong and medium dynamics, 0.5, 1, 2, and 4 sec. (AB switch, strong dyn. on black keys)



04 Snare-A_off_perf-rep_dyn9**Range: C3-A4****Samples: 108****RAM: 6 MB****Level 2**

Performance repetitions

Dynamics, 9 repetitions

Slow and fast

1 velocity layer

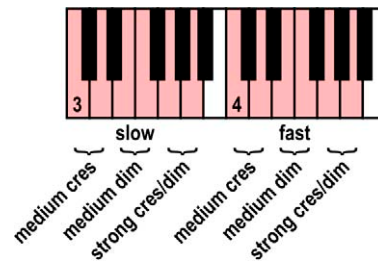
Mapping:

C-D – medium crescendo; E-F – medium diminuendo

G – strong crescendo; A – strong diminuendo

C3-A3: slow

C4-A4: fast



02 SNARE DRUM - B

Level 2: Snare on and off

Brushes and sticks, various articulations

Performance repetitions, slow and fast

01 Snare-B_on

Range: C2–G#7 Samples: 126 RAM: 7 MB **Level 2**

Brushes: Single hits, normal and rim, rubs

Sticks: rim hits and rimshots, rim clicks, open and muted single hits (2 alternations), performance repetitions, press rolls, upbeats, rolls normal and dynamics

Velocity mapping:

Single hits, repetitions, tied trills, upbeats, and normal tremolos, 4 layers

Brush hits, normal, 2 layers

All others, 1 layer

Release samples

2 Alternations

AB switch: crescendo/diminuendo

Mapping:

Brushes:

C2, D2: Single hits (l/r); D#2: Rim hits

E2–B2: Rubs – 2 sec. forte, 6, 14, 19 sec. piano, 11 sec. forte

Sticks:

C3–D3: Rim hit, crossed sticks var. 1/2

E3–F3: Rimshot open/muted

G3–A3: Rim click normal/crossed sticks

C4, D4: Single hits, l/r

C#4, D#4: Single hits, muted, l/r

F4–B4: Performance repetitions, slow/fast, alternating (lower key left hand, higher key right hand)

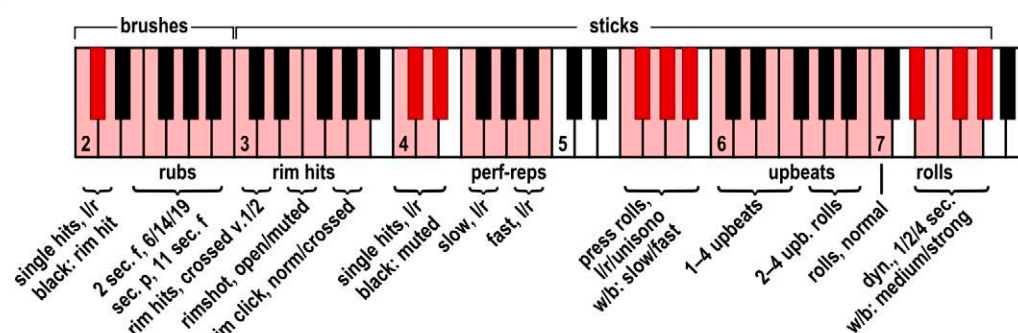
F5–A#5: Press rolls, left/right/unisono (white keys slow, black keys fast)

C6–F6: 1–4 upbeats

G6–B6: 2–4 upbeat rolls

C7: Rolls normal

D#7–G#7: Rolls, strong and medium dynamics, 1, 2, and 4 sec. (AB switch, strong dyn. on black keys)



02 Snare-B_on_perf-rep_dyn9**Range: C3-A4****Samples: 108****RAM: 6 MB****Level 2**

Performance repetitions

Medium and strong dynamics, 9 repetitions

Slow and fast

1 velocity layer

Mapping:

C3-A3 – slow (16ths, 87 BPM)

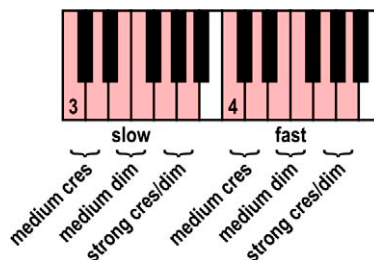
C4-A4 – fast (16ths, 138 BPM)

C-D: medium crescendo, p-mf/mf-ff

E-F: medium diminuendo, ff-mf/mf-p

G: Strong crescendo, pp-ff

A: Strong diminuendo, ff-pp

**03 Snare-B_off****Range: C4-G#7****Samples: 102****RAM: 6 MB****Level 2**

Sticks:

Open and muted single hits (2 alternations)

Performance repetitions

Press rolls

Upbeats

Rolls normal and dynamics

4 velocity layers

Release samples

2 Alternations

AB switch: crescendo/diminuendo

Mapping:

C4, D4: Single hits, l/r

C#4, D#4: Single hits, muted, l/r

F4-B4: Performance repetitions, slow/fast, alternating (lower key left hand, higher key right hand)

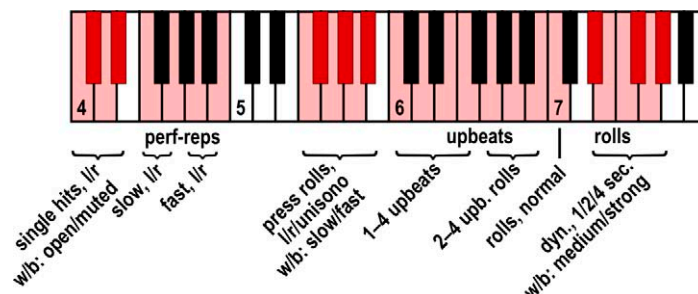
F5-A#5: Press rolls, left/right/unisono (white keys slow, black keys fast)

C6-F6: 1-4 upbeats

G6-B6: 2-4 upbeat rolls

C7: Rolls normal

D#7-G#7: Rolls, strong and medium dynamics, 1, 2, and 4 sec. (AB switch, strong dyn. on black keys)



04 Snare-B_off_perf-rep_dyn9**Range: C3-A4****Samples: 108****RAM: 6 MB****Level 2**

Performance repetitions

Medium and strong dynamics, 9 repetitions

Slow and fast

1 velocity layer

Mapping:

C3-A3 – slow (16ths, 82 BPM)

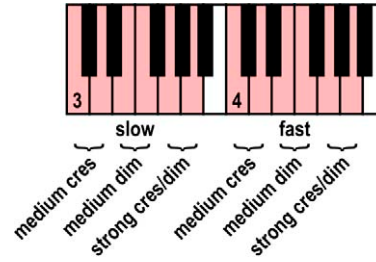
C4-A4 – fast (16ths, 140 BPM)

C-D: medium crescendo, p-mf/mf-ff

E-F: medium diminuendo, ff-mf/mf-p

G: Strong crescendo, pp-ff

A: Strong diminuendo, ff-pp



03 SNARE DRUMS a4

Level 1: Snare on and off

Rim and normal, single hits, upbeats, rebounds, rolls

Level 2: Snare on, performance repetitions dynamics, slow and fast

Brushes and timpani mallets, single hits, rolls normal and dynamics

01 Snares-4_on

Range: C2-B7

Samples: 314

RAM: 19 MB

Level 1

Rim: Clicks, hits, shots, upbeats, and rolls

Normal: Single hits (4 alternations), performance repetitions, press rolls, upbeats, and rolls

Velocity mapping:

Single hits, 8 layers: 0–30 ppp, 31–50 pp, 51–60 p, 61–70 mp, 71–80 mf, 81–90 f, 91–110 ff, 111–127 fff

Normal rolls, 6 layers: 0–30 pp, 31–50 p, 51–70 mp, 71–90 mf, 91–110 f, 111–127 ff

Rimshots, 1 layer

All others, 3 to 4 layers

Release samples

4 Alternations

AB switch: crescendo/diminuendo

Mapping:

Rim:

C2–D2: Rim clicks, l/r

F2–G2: Rim hits, l/r; F#2: Rim hits, unisono

A2–B2: Rimshots, l/r; A#2: Rimshots, unisono

C3–F3: 1–4 rim upbeats

G3: Rim rolls, normal

A3–B3: Rim tremolo dynamics, 1, 2, and 3 sec. (AB switch)

Normal:

C4–D4: Single hits, l/r; C#4: Single hits, unisono

F4–D5: Performance repetitions, slow/medium/fast, alternating (lower key left hand, higher key right hand)

F5–A5: Rebounds, left/right/unisono

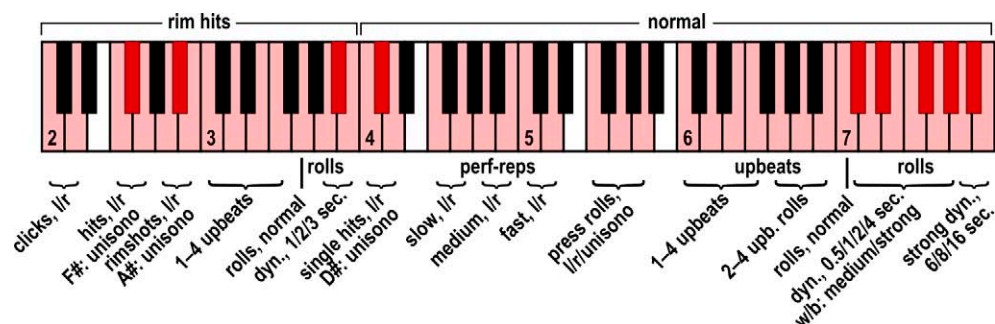
C6–F6: 1–4 upbeats

G6–B6: 2–4 upbeat rolls

C7: Rolls normal

C#7–G#7: Rolls, medium and strong dynamics, 0.5, 1, 2, and 4 sec. (AB switch cres-dim, strong dyn. on black keys)

A7–B7: Rolls, strong dynamics, 6, 8, and 16 sec. (AB switch cres-dim)



02 Snares-4_on_perf-rep_dyn9**Range: C3–D4****Samples: 36****RAM: 2 MB****Level 2**

Performance repetitions
 Dynamics, 9 repetitions
 4ths and 8ths at 120 BPM
 1 velocity layer

Mapping:

C3–D3: crescendo/diminuendo, slow (4ths at 120 BPM)

C4–D4: crescendo/diminuendo, fast (8ths at 120 BPM)

**03 Snares-4_off****Range: C4–G7****Samples: 64****RAM: 4 MB****Level 1**

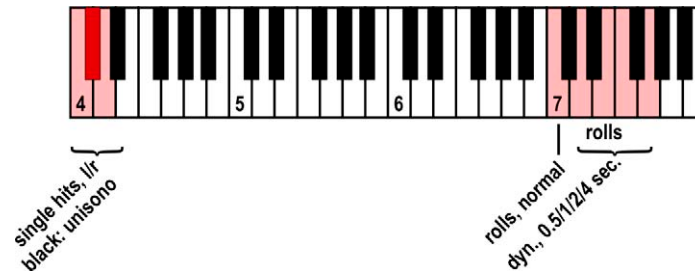
Single hits (4 alternations)
 Rolls normal, and strong dynamics
 4 velocity layers
 Release samples
 4 Alternations
 AB switch: crescendo/diminuendo

Mapping:

C4–D4: Single hits, l/r; C#4: Single hits, unisono

C7: Rolls normal

D7–G7: Rolls, strong dynamics, 0.5, 1, 2, and 4 sec. (AB switch)



04 Snares-4_Brush

Range: C4–G7

Samples: 50

RAM: 3 MB

Level 2

Single hits (2 alternations)

Rubs

Rolls normal, and strong dynamics

Velocity mapping:

Single hits and normal tremolos, 4 layers

All others, 1 layer

Release samples

2 Alternations

AB switch: crescendo/diminuendo

Mapping:

C4–D4: Single hits, l/r; C#4: Single hits, unisono

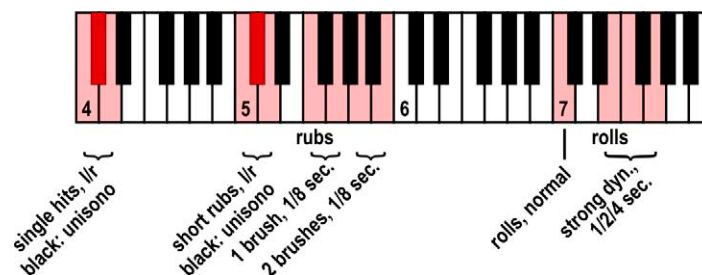
C5–D5: Short rubs, l/r; C#4: Short rubs, unisono

F5–G5: Rubs, 1 brush, 1 and 8 sec.

A5–B5: Rubs, 2 brushes, 1 and 8 sec.

C7: Rolls normal

E7–G7: Rolls, strong dynamics, 1, 2, and 4 sec. (AB switch)

**05 Snares-4_Tmp**

Range: C4–G7

Samples: 62

RAM: 3 MB

Level 2

Single hits (4 alternations)

Rolls normal, and strong dynamics

4 velocity layers

Release samples

4 Alternations

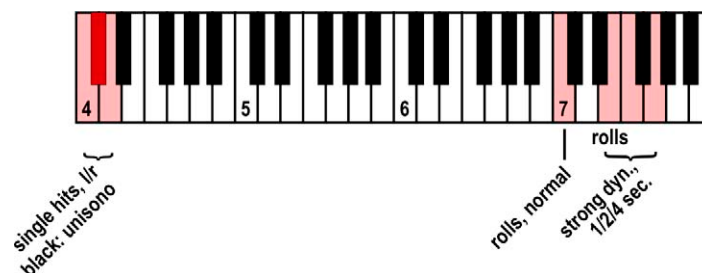
AB switch: crescendo/diminuendo

Mapping:

C4–D4: Single hits, l/r; C#4: Single hits, unisono

C7: Rolls normal

E7–G7: Rolls, strong dynamics, 1, 2, and 4 sec. (AB switch)



04 PICCOLO DRUM

Level 2: Single hits open and muted, rebounds, upbeats, rolls normal and dynamics
Performance repetitions, medium and strong dynamics, slow and fast

01 Piccolo-Drum

Range: C4–G#7

Samples: 102

RAM: 6 MB

Level 2

Open and muted hits (2 alternations)
Performance repetitions
Press rolls
Upbeats
Rolls normal and dynamics
4 velocity layers
Release samples
2 Alternations
AB switch: crescendo/diminuendo

Mapping:

C4, D4: Single hits, l/r

C#4, D#4: Single hits, muted l/r

F4–B4: Performance repetitions, slow/fast, alternating (lower key left hand, higher key right hand)

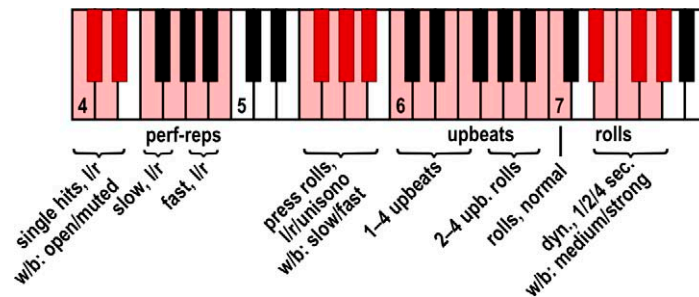
F5–A#5: Press rolls, left/right/unisono (white keys slow, black keys fast)

C6–F6: 1–4 upbeats

G6–B6: 2–4 upbeat rolls

C7: Rolls normal

D#7–G#7: Rolls, strong and medium dynamics, 1, 2, and 4 sec. (AB switch, strong dyn. on black keys)



02 Piccolo-Drum_perf-rep_dyn9**Range: C3-A4****Samples: 108****RAM: 6 MB****Level 2**

Performance repetitions

Medium and strong dynamics, 9 repetitions

Slow and fast

1 velocity layer

Mapping:

C3-A3 – slow (85 BPM)

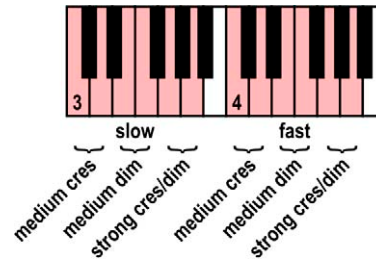
C4-A4 – fast (135 BPM)

C-D: Medium crescendo, p-mf/mf-ff

E-F: Medium diminuendo, ff-mf/mf-p

G: Strong crescendo, pp-ff

A: Strong diminuendo, ff-pp

**05 FIELD DRUM - A****Level 1:** Snare on and off

Single hits, rolls normal and soft

01 Field-A_on**Range: C4-D7****Samples: 44****RAM: 2 MB****Level 1**

Single hits (2 Alternations)

Performance repetitions normal and soft

Rolls normal and soft

Velocity mapping:

Single hits, 8 layers: 0-30 ppp, 31-50 pp, 51-60 p, 61-70 mp, 71-80 mf, 81-90 f, 91-110 ff, 111-127 fff

Repetitions and rolls, 4 layers

Release samples

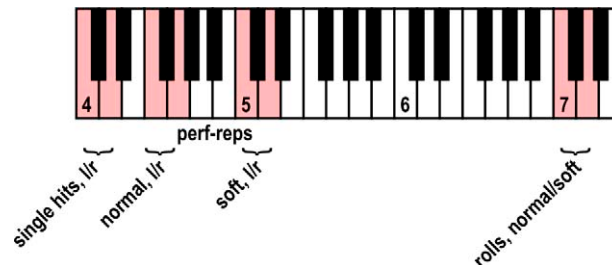
Mapping:

C4-D4: Single hits, l/r

F4-G4: Performance repetitions, normal, alternating (lower key left hand, higher key right hand)

C5-D5: Performance repetitions, soft, alternating (lower key left hand, higher key right hand)

C7-D7: Rolls normal/soft



03 Field-A_off**Range: C4–D7****Samples: 44****RAM: 2 MB****Level 1**

Single hits (2 Alternations)

Performance repetitions normal and soft

Rolls normal and soft

Velocity mapping:

Single hits, 8 layers: 0–30 ppp, 31–50 pp, 51–60 p, 61–70 mp, 71–80 mf, 81–90 f, 91–110 ff, 111–127 fff

Repetitions and rolls, 4 layers

Release samples

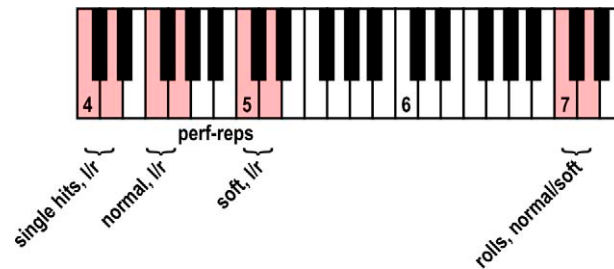
Mapping:

C4–D4: Single hits, l/r

F4–G4: Performance repetitions, normal, alternating (lower key left hand, higher key right hand)

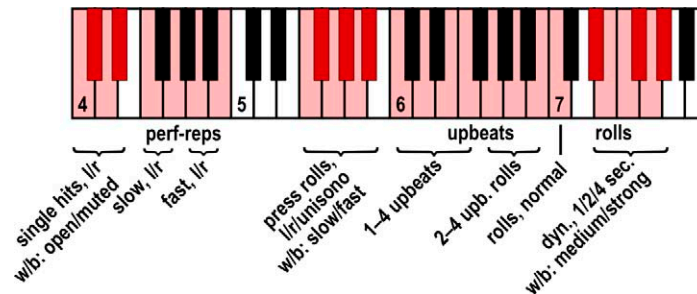
C5–D5: Performance repetitions, soft, alternating (lower key left hand, higher key right hand)

C7–D7: Rolls normal/soft



Single hits open and muted, rebounds, upbeat, rolls normal and dynamics
Performance repetitions, medium and strong dynamics, slow and fast

Level 2



02 Field-B_on_perf-rep_dyn9**Range: C3–A4****Samples: 108****RAM: 6 MB****Level 2**

Performance repetitions

Medium and strong dynamics, 9 repetitions

Slow and fast

1 velocity layer

Mapping:

C3–A3 – slow (85 BPM)

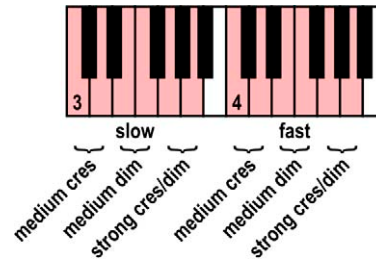
C4–A4 – fast (135 BPM)

C–D: medium crescendo, p–mf/mf–ff

E–F: medium diminuendo, ff–mf/mf–p

G: Strong crescendo, p–ff

A: Strong diminuendo, ff–p

**07 BASS DRUM - A****Level 1:** Soft and hard mallets

Single hits normal/secco, performance repetitions slow and fast, upbeats, rolls normal and dynamics

Level 2: Soft and hard mallets

Performance repetitions, medium and strong dynamics, slow

01 B-Drum-A_SO**Range: C4–G#7****Samples: 170****RAM: 10 MB****Level 1**

Single hits, normal and secco (4 alternations)

Performance repetitions, slow and fast

Upbeats

Rolls normal (AB switch: long/short release) and dynamics

Velocity mapping:

Single hits, 8 layers: 0–15 ppp, 16–35 pp, 36–55 p, 56–70 mp, 71–88 mf, 89–108 f, 109–118 ff, 119–127 fff

Repetitions, upbeats, and normal rolls, 4 layers

Release samples

4 Alternations

AB switch: crescendo/diminuendo

Mapping:

C4, D4: Single hits, l/r

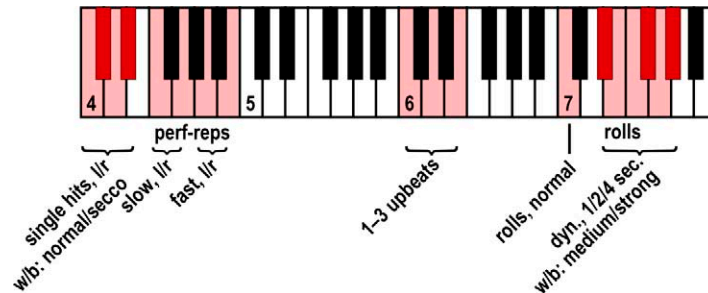
C#4, D#4: Single hits, secco, l/r

F4–B4: performance repetitions, slow/fast, alternating (lower key left hand, higher key right hand)

C6–E6: 1–3 upbeats

C7: Rolls normal

D#7–G#7: Rolls, strong and medium dynamics, 1, 2, and 4 sec. (AB switch, strong dyn. on black keys)

**02 B-Drum-A_SO_perf-rep_dyn9****Range: C4–A4****Samples: 54****RAM: 3 MB****Level 2**

Performance repetitions

Medium and strong dynamics, 9 repetitions

Slow

1 velocity layer

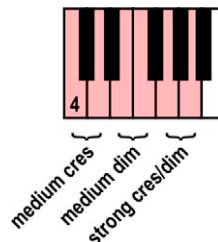
Mapping:

C4–D4: medium crescendo, pp–mf/mf–fff

E4–F4: medium diminuendo, fff–mf/mf–pp

G4: Strong crescendo, pp–fff

A4: Strong diminuendo, fff–pp



03 B-Drum-A_HA**Range: C4–G#7****Samples: 170****RAM: 10 MB****Level 1**

Single hits, normal and secco (4 alternations)

Performance repetitions, slow and fast

Upbeats

Rolls normal (AB switch: long/short release) and dynamics

Velocity mapping:

Single hits, 8 layers: 0–15 ppp, 16–35 pp, 36–55 p, 56–70 mp, 71–88 mf, 89–108 f, 109–118 ff, 119–127 fff

Repetitions, upbeats, and normal rolls, 4 layers

Release samples

4 Alternations

AB switch: crescendo/diminuendo

Mapping:

C4, D4: Single hits, l/r

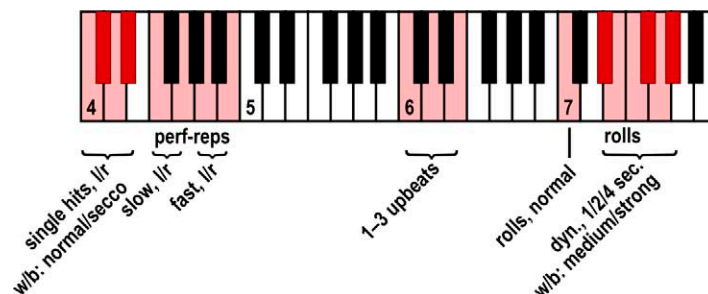
C#4, D#4: Single hits, secco, l/r

F4–B4: performance repetitions, slow/fast, alternating (lower key left hand, higher key right hand)

C6–E6: 1–3 upbeats

C7: Rolls normal

D#7–G#7: Rolls, strong and medium dynamics, 1, 2, and 4 sec. (AB switch, strong dyn. on black keys)

**04 B-Drum-A_HA_perf-rep_dyn9****Range: C4–A4****Samples: 54****RAM: 3 MB****Level 2**

Performance repetitions

Medium and strong dynamics, 9 repetitions

Slow

1 velocity layer

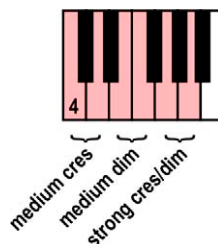
Mapping:

C4–D4: medium crescendo, pp–mf/mf–fff

E4–F4: medium diminuendo, fff–mf/mf–pp

G4: Strong crescendo, pp–fff

A4: Strong diminuendo, fff–pp



08 BASS DRUM - B**Level 2:** Single hits, rim, muted, coperto, normal

Upbeats; rolls normal and dynamics

Performance repetitions, strong dynamics, medium and fast

01 B-Drum-B**Range:** C2–G#7**Samples:** 98**RAM:** 6 MB**Level 2**

Single hits: Rim, muted, coperto, and normal

Performance repetitions

Upbeats

Rolls normal (AB switch: long/short release) and dynamics

Velocity mapping:

Single hits, 5 layers: 0–35 pp, 36–55 p, 56–88 mf, 89–108 f, 109–127 ff

Normal tremolos, 4 layers

All others, 3 layers

Release samples

AB switch: crescendo/diminuendo

Mapping:

C2–D2: Rim hits, l/r

F2–G2: muted hits, l/r

C3–D3: Single hits, coperto, l/r

C4, D4: Single hits, l/r

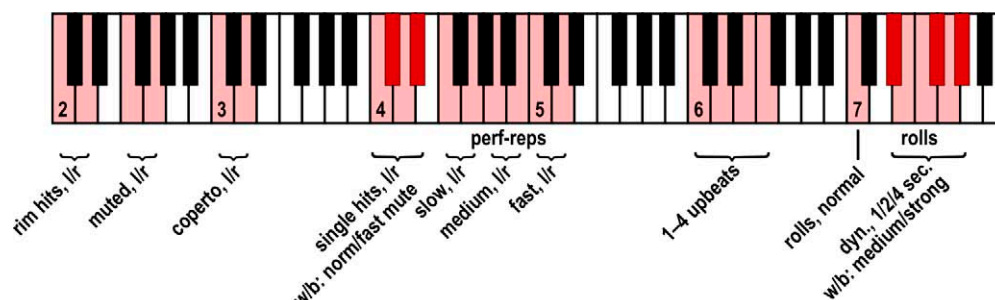
C#4, D#4: Single hits, muted fast, l/r

F4–D5: performance repetitions, slow/fast, alternating (lower key left hand, higher key right hand)

C6–F6: 1–4 upbeats

C7: Rolls normal

D#7–G#7: Rolls, strong and medium dynamics, 1, 2, and 4 sec. (AB switch, strong dyn. on black keys)

**02 B-Drum-B_perf-rep_dyn9****Range:** C3–D4**Samples:** 36**RAM:** 2 MB**Level 2**

Performance repetitions

Strong dynamics, 9 repetitions

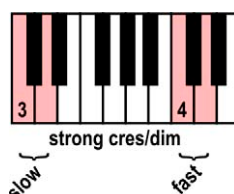
Medium and fast

1 velocity layer

Mapping:

C3–D3: 88 BPM, crescendo/diminuendo

C4–D4: 138 BPM, crescendo/diminuendo



09 TAIKO DRUMS

Level 1: Single hits

Rolls normal and dynamics

Level 2: Performance repetitions

Effects single hits, rolls

01 TAIKOS

Range: C1–A#7

Samples: 474

RAM: 29 MB

Level 1

Taiko drums 1–7

Single hits (2 alternations)

Rolls normal (AB switch: long/short release) and dynamics

Velocity mapping:

Single hits, 8 layers: 0–15 ppp, 16–35 pp, 36–55 p, 56–70 mp, 71–88 mf, 89–108 f, 109–118 ff, 119–127 fff

Rim hits, 2 layers

Rolls, 4 layers

Release samples

2 Alternations

AB switch: crescendo/diminuendo

Mapping:

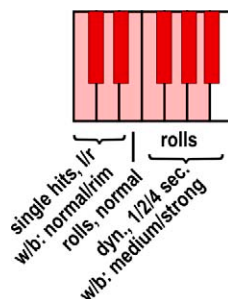
C, D: Single hits, l/r

C#, D#: Rim hits, l/r

E: Rolls, normal

F–A#: Rolls, strong and medium dynamics, 1, 2, and 4 sec. (AB switch, strong dyn. on black keys)

Each Taiko spans one octave



02 TAIKOS_perf-rep

Range: C1–D7

Samples: 224

RAM: 14 MB

Level 2

Taiko drums 1–7

Performance repetitions

4 velocity layers

Mapping:

C, D: performance repetitions, alternating (lower key left hand, higher key right hand)

Each Taiko on one octave



03 TAIKOS_FX**Range: C4–C7****Samples: 20****RAM: 1 MB****Level 2**

Low Taiko

FX single hits

Rolls (AB switch: long/short release)

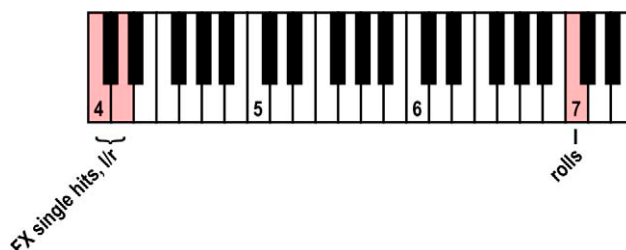
4 velocity layers

Release samples

Mapping:

C4–D4: Single hits, l/r

C7: Rolls

**10 CONCERT TOMS****Level 2:** Low and high concert toms

Single hits, performance repetitions, rolls normal and crescendo, upbeats

Performance repetitions, medium and strong dynamics

01 Co-Toms_low**Range: C1–B7****Samples: 630****RAM: 39 MB****Level 2**

Low Concert Toms 1–7

Single hits (2 alternations)

Performance repetitions

Rolls normal and crescendo

1–3 upbeats

Velocity mapping:

Single hits, 8 layers: 0–15 ppp, 16–35 pp, 36–55 p, 56–70 mp, 71–88 mf, 89–108 f, 109–118 ff, 119–127 fff

Repetitions, upbeats, and normal rolls, 4 layers

Release samples

2 Alternations

Mapping:

C, D: Single hits, l/r

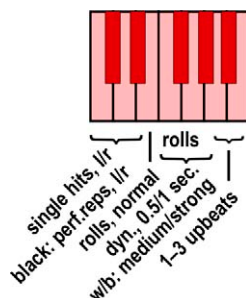
C#, D#: performance repetitions, alternating (lower key left hand, higher key right hand)

E: Rolls, normal

F–G#: Rolls, strong and medium crescendo, 0.5 and 1 sec. (strong dyn. on black keys)

A–B: 1–3 upbeats

Each Tom spans one octave



02 Co-Toms_low_perf-rep_dyn9**Range: C1–A7****Samples: 378****RAM: 23 MB****Level 2**

Low Concert Toms 1–7

Performance repetitions

Dynamics medium and strong

9 repetitions

1 velocity layer

Mapping:

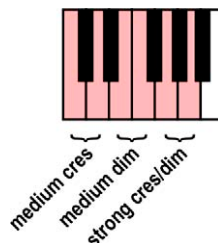
C, D: medium crescendo, pp–mp/mp–ff

E, F: medium diminuendo, ff–mp/mp–pp

G: Strong crescendo, pp–ff

A: Strong diminuendo, ff–pp

Each Tom spans one octave

**03 Co-Toms_high****Range: C2–B7****Samples: 540****RAM: 33 MB****Level 2**

High Concert Toms 1–6

Single hits (2 alternations)

Performance repetitions

Rolls normal and crescendo

1–3 upbeats

Velocity mapping:

Single hits, 8 layers: 0–15 ppp, 16–35 pp, 36–55 p, 56–70 mp, 71–88 mf, 89–108 f, 109–118 ff, 119–127 fff

Repetitions, upbeats, and normal rolls, 4 layers

Release samples

2 Alternations

Mapping:

C, D: Single hits, l/r

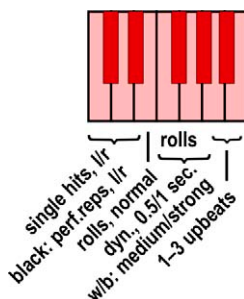
C#, D#: performance repetitions, alternating (lower key left hand, higher key right hand)

E: Rolls, normal

F–G#: Rolls, strong and medium crescendo, 0.5 and 1 sec. (strong dyn. on black keys)

A–B: 1–3 upbeats

Each Tom spans one octave

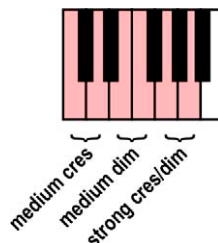


04 Co-Toms_high_perf-rep_dyn9**Range: C2–A7****Samples: 324****RAM: 20 MB****Level 2**

High Concert Toms 1–6
 Performance repetitions
 Dynamics medium and strong
 9 repetitions
 1 velocity layer

Mapping:

C, D: medium crescendo, pp–mp/mp–ff
 E, F: medium diminuendo, ff–mp/mp–pp
 G: Strong crescendo, pp–ff
 A: Strong diminuendo, ff–pp
 Each Tom spans one octave

**11 ROTO TOMS**

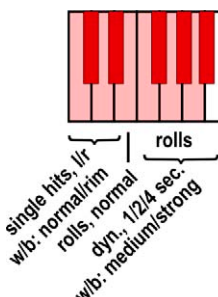
Level 2: Normal and soft mallets
 Single hits, rim hits, rolls normal and dynamics, upbeats
 Performance repetitions

01 Ro-Toms**Range: C3–A#7****Samples: 310****RAM: 19 MB****Level 2**

Roto Toms 1–5
 Single hits (2 alternations)
 Rim hits
 Rolls normal and dynamics
 Velocity mapping:
 Single hits, 8 layers: 0–15 ppp, 16–35 pp, 36–55 p, 56–70 mp, 71–88 mf, 89–108 f, 109–118 ff, 119–127 fff
 Rim hits, 1 layer
 Normal rolls, 4 layers
 Release samples
 2 Alternations
 AB switch: crescendo/diminuendo

Mapping:

C, D: Single hits, l/r
 C#, D#: Rim hits
 E: Rolls, normal
 F–A#: Rolls, strong and medium dynamics, 1, 2, and 4 sec. (AB switch, strong dyn. on black keys)



02 Ro-Toms_perf-rep**Range: C3–D7****Samples: 160****RAM: 10 MB****Level 2**

Roto Toms 1–5

Performance repetitions

4 velocity layers

Mapping:

C, D: performance repetitions, alternating (lower key left hand, higher key right hand)

Each Tom on one octave

**03 Ro-Toms_SO****Range: C3–E7****Samples: 120****RAM: 7 MB****Level 2**

Roto Toms 1–5: Soft mallets

Single hits (2 alternations)

Rolls

4 velocity layers

Release samples

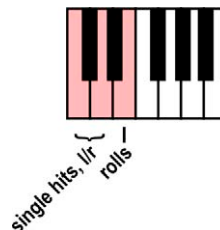
2 Alternations

Mapping:

C, D: Single hits, l/r

E: Rolls, normal

Each Tom on one octave

**04 Ro-Toms_SO_perf-rep****Range: C3–D7****Samples: 160****RAM: 10 MB****Level 2**

Roto Toms 1–5: Soft mallets

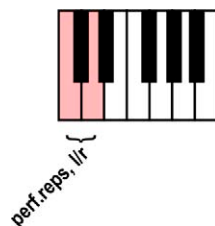
Performance repetitions

4 velocity layers

Mapping:

C, D: performance repetitions, alternating (lower key left hand, higher key right hand)

Each Tom on one octave



12 TAMBURIN - A

Level 1: Single hits, performance repetitions, upbeats, tremolo normal and crescendo

Level 2: Performance repetitions, medium and strong dynamics, fast and presto

01 Tamb-A

Range: C4–G7

Samples: 126

RAM: 7 MB

Level 1

Tambourine A

Single hits

Performance repetitions (120/240 BPM)

Upbeats

Tremolo normal and crescendo

Velocity mapping:

Single hits, 8 layers: 0–15 ppp, 16–35 pp, 36–55 p, 56–70 mp, 71–88 mf, 89–108 f, 109–118 ff, 119–127 fff

Repetitions, 4 layers

Upbeats, 7 layers: 0–35 pp, 36–55 p, 56–70 mp, 71–88 mf, 89–108 f, 109–118 ff, 119–127 fff

Tremolo, 3 layers

Thumb tremolo, 4 layers: 0–35 pppp, 36–55 pp, 56–88 mp, 89–127 mf

Release samples

Mapping:

C4–D#4: Single hits, l/r (middle on white keys, rim on black keys)

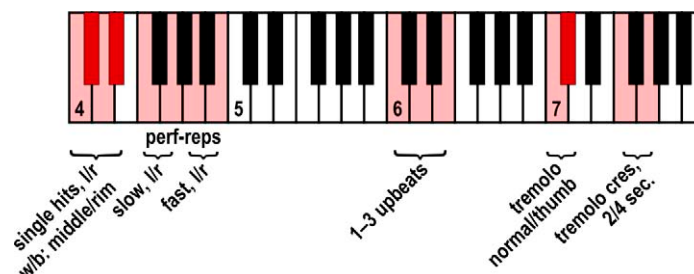
F4–B4: performance repetitions, slow/fast, alternating (lower key left hand, higher key right hand)

C6–E6: 1–3 upbeats

C7: tremolo, normal

C#7: thumb tremolo

F7–G7: tremolo crescendo, 2 and 4 sec.



02 Tamb-A_perf-rep_dyn9

Range: C4–A5

Samples: 108

RAM: 6 MB

Level 2

Performance repetitions

Dynamics medium and strong

Slow and fast (120/240 BPM)

9 repetitions

1 velocity layer

Mapping:

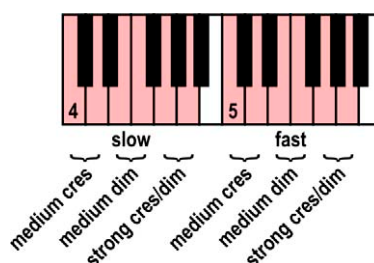
C4–A4 – slow repetitions; C5–A5 – fast repetitions

C, D: medium crescendo

E, F: medium diminuendo

G: Strong crescendo

A: Strong diminuendo



13 TAMBURIN - B

Level 2: Single hits normal and sforzato

Medium and fast upbeats

Shakes and thumb tremolo

01 Tamb-B

Samples: 48

RAM: 3 MB

Level 2

Tambourine B

Single hits normal and sforzato

Medium and fast upbeats (105/130 BPM)

Shakes and thumb tremolo normal and dynamics

Velocity mapping:

Normal single hits, 4 layers

Upbeats, 3 layers

All others, 1 layer

Release samples

AB switch: crescendo/diminuendo

Mapping:

C4, D4: Single hits, normal

C#4, D#4: Single hits, sforzato

C5-F5: 1-4 upbeats, medium (105 BPM)

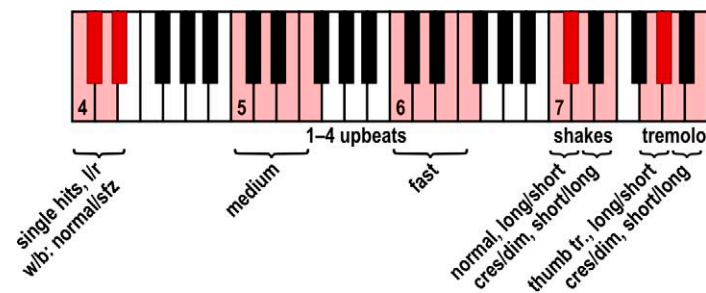
C6-F6: 1-4 upbeats, fast (130 BPM)

C7-C#7: Shakes long/short

D7-E7: Shakes dynamics, short/long (AB switch)

G7-G#7: thumb tremolo long/short

A7-B7: thumb tremolo dynamics, short/long (AB switch)



14 TAMBURIN - C

Level 2: Single hits normal and sforzato

Medium and fast upbeats

Shakes and thumb tremolo

01 Tamb-C

Samples: 48

RAM: 3 MB

Level 2

Tambourine C

Single hits normal and sforzato

Medium and fast upbeats (105/130 BPM)

Shakes and thumb tremolo normal and dynamics

Velocity mapping:

Normal single hits, 4 layers

Upbeats, 3 layers

All others, 1 layer

Release samples

AB switch: crescendo/diminuendo

Mapping:

C4, D4: Single hits, normal

C#4, D#4: Single hits, sforzato

C5–F5: 1–4 upbeats, medium (105 BPM)

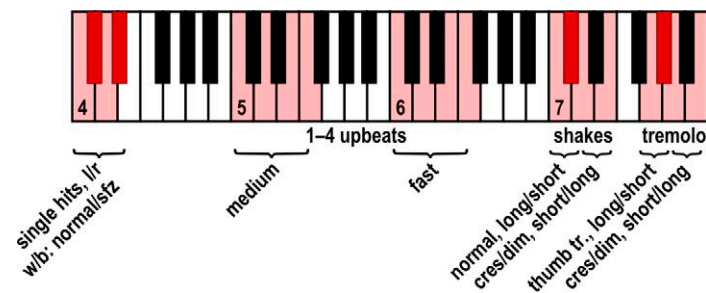
C6–F6: 1–4 upbeats, fast (130 BPM)

C7–C#7: Shakes long/short

D7–E7: Shakes dynamics, short/long (AB switch)

G7–G#7: thumb tremolo long/short

A7–B7: thumb tremolo dynamics, short/long (AB switch)



15 TAMBURIN - D

Level 2: Single hits normal and sforzato

Medium and fast upbeats

Shakes and thumb tremolo

01 Tamb-D

Samples: 48

RAM: 3 MB

Level 2

Tambourine D

Single hits normal and sforzato

Medium and fast upbeats (105/130 BPM)

Shakes and thumb tremolo normal and dynamics

Velocity mapping:

Normal single hits, 4 layers

Upbeats, 3 layers

All others, 1 layer

Release samples

AB switch: crescendo/diminuendo

Mapping:

C4, D4: Single hits, normal

C#4, D#4: Single hits, sforzato

C5–F5: 1–4 upbeats, medium (105 BPM)

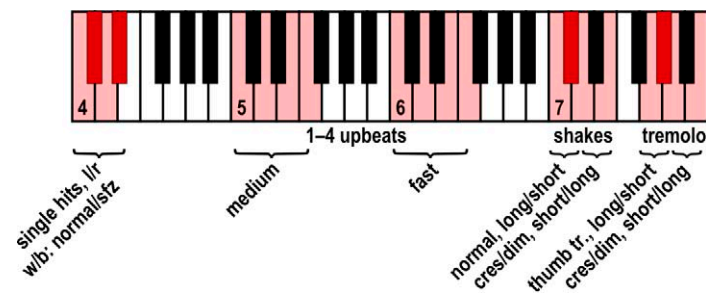
C6–F6: 1–4 upbeats, fast (130 BPM)

C7–C#7: Shakes long/short

D7–E7: Shakes dynamics, short/long (AB switch)

G7–G#7: thumb tremolo long/short

A7–B7: thumb tremolo dynamics, short/long (AB switch)



Matrices

Matrix - LEVEL 1

L1 01 Snare drum-A

Samples: 539 RAM: 33 MB [Level 1](#)

Patches:

01 Snare-A_on

03 Snare-A_off

Matrix switches: Vertical: Modwheel, 2 zones

	H1
V1	01 Snare-A_on
V2	03 Snare-A_off

L1 02 Snare drum ensemble-4

Samples: 474 RAM: 29 MB [Level 1](#)

Patches:

01 Snares-4_on

03 Snares-4_off

Matrix switches: Vertical: Modwheel, 2 zones

	H1
V1	01 Snares-4_on
V2	03 Snares-4_off

L1 03 Field drum-A

Samples: 216 RAM: 13 MB [Level 1](#)

Patches:

01 Field-A_on

03 Field-A_off

Matrix switches: Vertical: Modwheel, 2 zones

	H1
V1	01 Field-A_on
V2	03 Field-A_off

L1 04 Bass drum-A

Samples: 340 RAM: 21 MB [Level 1](#)

Patches:

01 B_Drum-A_SO (soft mallets)

03 B_Drum-A_HA (hard mallets)

Matrix switches: Vertical: Modwheel, 2 zones

	H1
V1	01 B_Drum-A_SO
V2	03 B_Drum-A_HA

L1 05 Taiko drums

Samples: 474 RAM: 29 MB [Level 1](#)

Patch: 01 Taikos

L1 06 Tamburin-A

Samples: 133 RAM: 8 MB [Level 1](#)

Patch: 01 Tamb-A

Matrix - LEVEL 2**01 Snare drum-A all****Samples: 809 RAM: 50 MB Level 2**

Single hits, rolls etc.

Performance repetitions dynamics

Snare on and off

Matrix switches: Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 2 zones

	C1	C#1
snare on	01 Snare-A_on	perf.rep. dynamics
snare off	03 Snare-A_off	perf.rep. dynamics

02 Snare drum-B all**Samples: 572 RAM: 35 MB Level 2**

Single hits, rolls etc.

Performance repetitions dynamics

Snare on and off

Matrix switches: Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 2 zones

	C1	C#1
snare on	01 Snare-B_on	perf.rep. dynamics
snare off	03 Snare-B_off	perf.rep. dynamics

03 Snare drum ensemble-4 all**Samples: 622 RAM: 38 MB Level 2**

Single hits, rolls etc., snare on and off

Performance repetitions dynamics

Brushes and mallets

Matrix switches: Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
V1	01 Snares-4_on	perf.rep. dynamics	04 Snares- 4_Brush	05 Snares-4_Tmp
V2	03 Snares-4_off	%	%	%

04 Piccolo drum all**Samples: 274 RAM: 17 MB Level 2**

Single hits, rolls etc.

Performance repetitions dynamics

Matrix switches: Horizontal: Keyswitches, C1–C#1

	C1	C#1
V1	01 Piccolo-Drum	perf.rep. dynamics

05 Field drum-A all**Samples: 216 RAM: 13 MB Level 2**

Patches:

01 Field-A_on

03 Field-A_off

Matrix switches: Vertical: Modwheel, 2 zones

	H1
V1	01 Field-A_on
V2	03 Field-A_off

06 Field drum-B all**Samples: 245 RAM: 15 MB Level 2**

Single hits, rolls etc.

Performance repetitions dynamics

Matrix switches: Horizontal: Keyswitches, C1–C#1

	C1	C#1
V1	01 Field-B_on	perf.rep. dynamics

07 Bass drum-A all**Samples: 448 RAM: 28 MB Level 2**

Single hits, rolls etc.

Performance repetitions dynamics

Soft and hard mallets

Matrix switches: Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 2 zones

	C1	C#1
soft mallets	01 B-Drum-A_SO	perf.rep. dynamics
hard mallets	03 B-Drum-A_HA	perf.rep. dynamics

08 Bass drum-B all**Samples: 206 RAM: 12 MB Level 2**

Single hits, rolls etc.

Performance repetitions dynamics

Matrix switches: Horizontal: Keyswitches, C1–C#1

	C1	C#1
V1	01 B-Drum-B	perf.rep. dynamics

09 Taiko drums all**Samples: 718 RAM: 44 MB Level 2**

Single hits, rolls etc.

Performance repetitions

Effects

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
V1	01 Taikos	perf. repetitions	03 Taikos_FX

10 Concert toms all**Samples: 1872 RAM: 117 MB Level 2**

Concert toms low and high

Single hits, rolls etc.

Performance repetitions dynamics

Matrix switches: Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 2 zones

	C1	C#1
low toms	01 Co-Toms_low	perf.rep. dynamics
high toms	03 Co-Toms_high	perf.rep. dynamics

11 Roto toms all**Samples: 750 RAM: 46 MB Level 2**

Single hits, rolls etc.
 Performance repetitions
 Normal and hard mallets

Matrix switches: Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 2 zones

	C1	C#1
normal mallets	01 Ro-Toms	perf.rep. dynamics
soft mallets	03 Ro-Toms_SO	perf.rep. dynamics

12 Tamburin-A all**Samples: 241 RAM: 15 MB Level 2**

Single hits, tremolos etc.
 Performance repetitions dynamics

Matrix switches: Horizontal: Keyswitches, C1–C#1

	C1	C#1
V1	01 Tamb-A	perf.rep. dynamics

13 Tamburin-B all**Samples: 48 RAM: 3 MB Level 2**

Patch: 01 Tamb-B

14 Tamburin-C all**Samples: 48 RAM: 3 MB Level 2**

Patch: 01 Tamb-C

15 Tamburin-D all**Samples: 48 RAM: 3 MB Level 2**

Patch: 01 Tamb-D

Presets**Drums VSL Preset Level 1****Samples: 2176 RAM: 136 MB Level 1****Matrices:**

L1 01 Snare drum-A
 L1 02 Snare drum ensemble-4
 L1 03 Field drum-A
 L1 04 Bass drum-A
 L1 05 Taiko drums
 L1 06 Tamburin-A

Keyswitches: C1–F1**Drums VSL Preset Level 2****Samples: 5676 RAM: 354 MB Level 2****Matrices:**

01 Snare drum-A all
 03 Snare drum ensemble-4
 05 Field drum-A all
 07 Bass drum-A all
 09 Taiko drums all
 10 Concert toms all
 11 Roto toms all
 12 Tamburin-A all

Keyswitches: E1–B1

83 Cymbals - Gongs

Cymbals

Nowadays the orchestral cymbal family consists of the pair (piatti), the suspended cymbal and the small antique cymbals.

The **pair of cymbals** is used especially to accentuate musical climaxes and from the Romantic period it has played an important role in the orchestra. Its powerful sound can rise above the entire orchestra. It is sounded by striking one plate against the other.

Suspended cymbals are struck with a stick or mallet. In the orchestra the standard instrument is the **Turkish cymbal**, which is used especially to create tension. The Chinese cymbal was introduced to the orchestra in the 20th century due to its exotic sound.

Gongs

The **gong** is the metal percussion instrument that provides melodies and an exotic flavor in that section. The gong is often confused with the **tam-tam**, but there is a number of significant differences between the construction and the sound of the two instruments: unlike the tam-tam the gong has a definite pitch. Apart from that the tam-tam is a relatively flat disc, whereas the gong has a knob in the center.

Patches

01 PIATTI - A

Level 1: Normal and slow hits

Damped fast and slow

Performance repetitions

01 Piatti-A_Single-Hits

Range: C3–C5

Samples: 80

RAM: 5 MB

Level 1

Single hits, damped fast and slow

Normal and slow hits

Performance repetitions

8 velocity layers: 0–15 ppp, 16–35 pp, 36–55 p, 56–70 mp, 71–88 mf, 89–108 f, 109–118 ff, 119–127 fff

Release samples

Mapping:

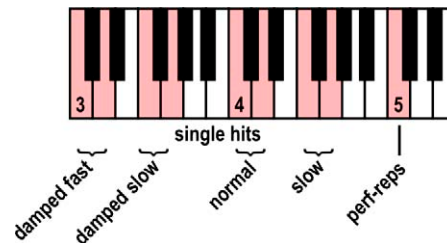
C3–D3: Single hits, damped fast

F3–G3: Single hits, damped slow

C4–D4: Single hits, normal

F4–G4: Single hits, slow

C5: performance repetitions (3 reps.)



02 PIATTI - series B

Level 1: 13", 18", 20" and 22" cymbals

Muted and open hits, scrapes

Level 2: 11", 15", 16" and 20" cymbals

Muted and open hits, scrapes

01 Piatti-B_11Z-Chi (13Z-Za/15Z-Za/16Z-K)

Range: C3–C4

Samples: 15

RAM: 1 MB

Level 2

Cymbals: Chinese, 11"; Zildjian Avedis, 13" and 15"; Avedis K1, 16"

Muted and open hits

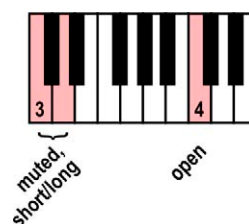
5 velocity layers

Mapping:

C3: muted, var. 1 (shorter)

D3: muted, var. 2 (longer)

C4: open



05 Piatti-B_16Z-K2 (18Z-Is/20Z-Is/20Z-Za/22Z-Za)**Range: C3-F4 Samples: 20 RAM: 1 MB****Level 2**

Cymbals: Avedis K2, 16"; Istanbul Janissary, 18"; Istanbul Symphonic, 20"; Zildjian Avedis, 20" and 22"
 Muted and open hits,
 scrapes
 5 velocity layers

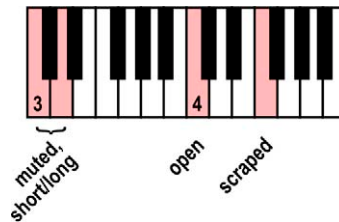
Mapping:

C3: muted, var. 1 (shorter)

D3: muted, var. 2 (longer)

C4: open

F4: Scraped

**03 CYMBAL standard - A****Level 1:** Drumsticks and mallets

Single hits normal and damped

Performance repetitions,

Tremolo normal and dynamics

01 Cym-A_Stick**Range: C4-A#6****Samples: 103****RAM: 6 MB****Level 1**

Single hits, normal and damped

Performance repetitions

Tremolo normal (AB switch: long and short release) and dynamics

8 velocity layers: 0–15 ppp, 16–35 pp, 36–55 p, 56–70 mp, 71–88 mf, 89–108 f, 109–118 ff, 119–127 fff

Release samples

AB switch: crescendo/diminuendo

Mapping:

C4–D4: Single hits, normal

F4–G4: Single hits, damped (shorter)

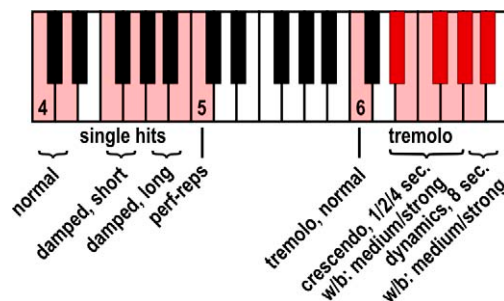
A4–B4: Single hits, damped (longer)

C5: performance repetitions (3 reps.)

C6: tremolo, normal

D#6–A#6: medium and strong crescendo, 1, 2, and 4 sec. (strong crescendo on black keys)

A6–A#6: medium and strong dynamics, 8 sec. (AB switch, strong dynamics on black key)



02 Cym-A_Mallet**Range: C4–A#6****Samples: 119****RAM: 7 MB****Level 1**

Single hits, soft and hard mallets

Damped

Performance repetitions

Tremolo normal (AB switch: long and short release) and dynamics

8 velocity layers: 0–15 ppp, 16–35 pp, 36–55 p, 56–70 mp, 71–88 mf, 89–108 f, 109–118 ff, 119–127 fff

Release samples

AB switch: crescendo/diminuendo

Mapping:

C4–D4: Single hits, soft mallets

C#4–D#4: Single hits, hard mallets

F4–G4: Single hits, damped (shorter)

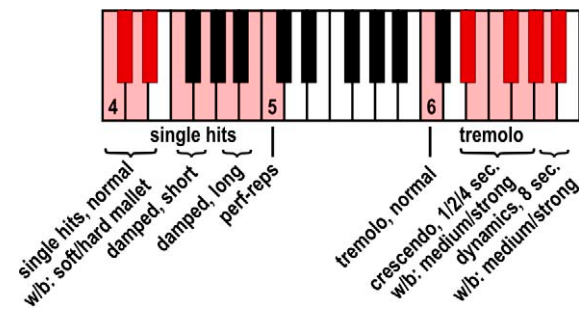
A4–B4: Single hits, damped (longer)

C5: performance repetitions (3 reps.)

C6: tremolo, normal

D#6–A#6: medium and strong crescendo, 1, 2, and 4 sec. (strong crescendo on black keys)

A6–A#6: medium and strong dynamics, 8 sec. (AB switch, strong dynamics on black key)



04 CYMBAL standard - B**Level 2:** Drumsticks, wool mallets, metal rod, brushes

Single hits normal and damped

Tremolo normal and dynamics

01 Cym-B_Stick (Mallet)**Range: C4–A#6****Samples: 33****RAM: 2 MB****Level 2**

01 Wood sticks/02 Wool mallets

Single hits, normal and damped

Tremolo normal (AB switch: long and short release) and dynamics

3 velocity layers

Release samples

AB switch: crescendo/diminuendo

Mapping:

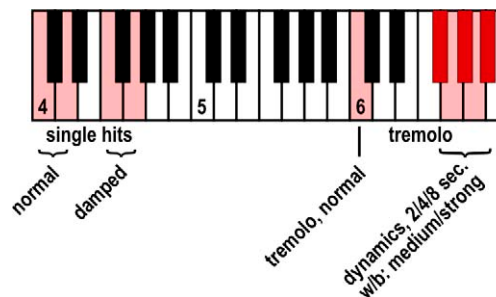
C4–D4: Single hits, normal

F4–G4: Single hits, damped

C6: tremolo, normal

F#6: Strong dynamics, 2 sec.

G6–A#6: medium and strong dynamics, 4 and 8 sec. (AB switch, strong dynamics on black keys)

**03 Cym-B_Metal****Range: C4–A#6****Samples: 36****RAM: 2 MB****Level 2**

Metal rod

Single hits, normal and damped

Tremolo normal (AB switch: long and short release) and dynamics

3 velocity layers

Release samples

AB switch: crescendo/diminuendo

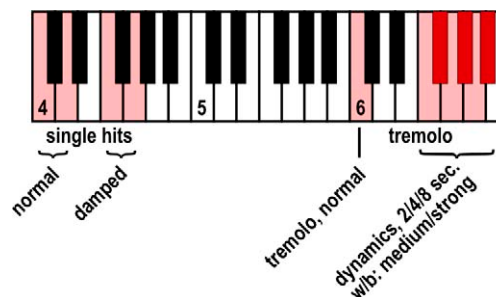
Mapping:

C4–D4: Single hits, normal

F4–G4: Single hits, damped

C6: tremolo, normal

F6–A#6: medium and strong dynamics, 2, 4, and 8 sec. (AB switch, strong dynamics on black keys; dim only 2 and 8 sec.)



04 Cym-B_Brush**Range: C4–A6****Samples: 18****RAM: 1 MB****Level 2**

Brushes

Single hits, normal and damped

Tremolo normal (AB switch: long and short release) and dynamics

2 velocity layers

Release samples

AB switch: crescendo/diminuendo

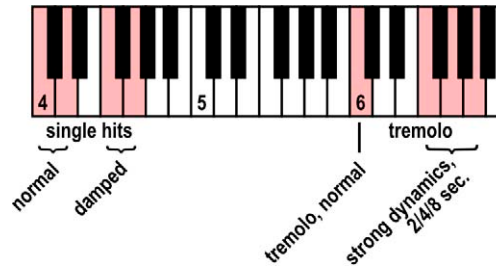
Mapping:

C4–D4: Single hits, normal

F4–G4: Single hits, damped

C6: tremolo, normal

F6–A6: Strong dynamics, 2, 4, and 8 sec. (AB switch; dim only 2 and 8 sec.)

**05 CYMBAL standard - C****Level 2:** Drumsticks, wool mallets, metal rod

Single hits normal and damped

Tremolo normal and dynamics

01 Cym-C_Stick (Mallet/Metal)**Range: C4–A#6****Samples: 36****RAM: 2 MB****Level 2**

01 Wood sticks/02 Wool mallets/03 Metal mallets

Single hits, normal and damped

Tremolo normal (AB switch: long and short release) and dynamics

3 velocity layers

Release samples

AB switch: crescendo/diminuendo

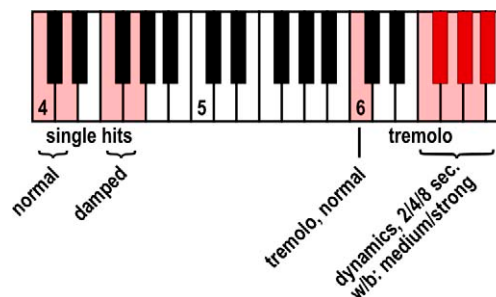
Mapping:

C4–D4: Single hits, normal

F4–G4: Single hits, damped

C6: tremolo, normal

F6–A#6: medium and strong dynamics, 2, 4, and 8 sec. (AB switch, strong dynamics on black keys; dim only 2 and 8 sec.)



06 CYMBAL standard - D**Range: C4–A#6****Level 2:** Drumsticks, wolle mallets, metal rod, brushes

Single hits normal and damped

Tremolo normal and dynamics

01 Cym-D_Stick (Mallet/Metal)**Samples: 36****RAM: 2 MB****Level 2**

01 Wood sticks/02 Wool mallets/03 Metal mallets

Single hits, normal and damped

Tremolo normal (AB switch: long and short release) and dynamics

3 velocity layers

Release samples

AB switch: crescendo/diminuendo

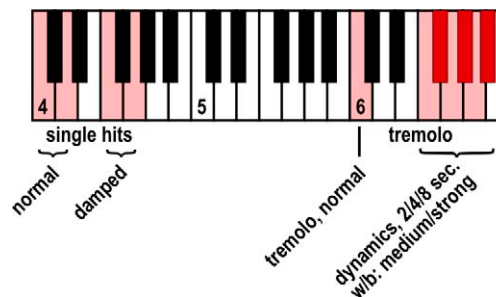
Mapping:

C4–D4: Single hits, normal

F4–G4: Single hits, damped

C6: tremolo, normal

F6–A#6: medium and strong dynamics, 2, 4, and 8 sec. (AB switch, strong dynamics on black keys; dim only 2 and 8 sec.)

**04 Cym-D_Brush****Range: C4–A6****Samples: 19****RAM: 1 MB****Level 2**

Brushes

Single hits, normal and damped

Tremolo normal (AB switch: long and short release) and dynamics

2 velocity layers

Release samples

AB switch: crescendo/diminuendo

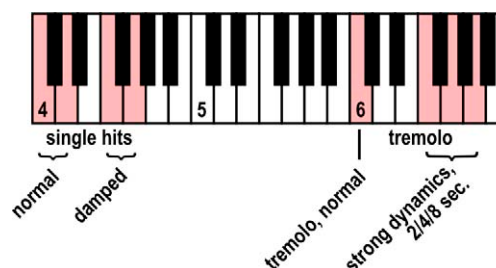
Mapping:

C4–D4: Single hits, normal

F4–G4: Single hits, damped

C6: tremolo, normal

F6–A6: Strong dynamics, 2, 4, and 8 sec. (AB switch; dim only 2 and 8 sec.)



07 CYMBAL Crash

Level 2: 15" and 16" crash cymbals

Drumsticks, mallets, timpani mallets, brushes, metal rod, and bowed

Rim, middle and dome hits, normal and damped

01 Cym-Crash_15Z_Stick (Mallet/Tmp)

Range: C3–B5

Samples: 105

RAM: 6 MB

Level 2

01 Wood sticks/02 Mallet/03 Timpani mallet

Rim, middle, and dome hits

Normal and damped

5 velocity layers

Mapping:

C3–B3 – rim hits

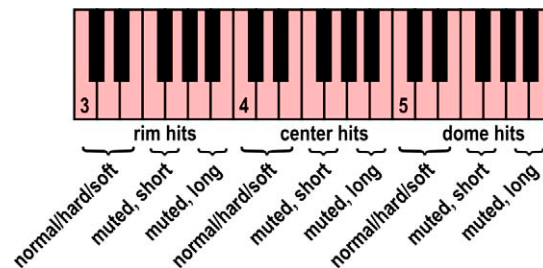
C4–B4 – body hits

C5–B5 – dome hits

C–E: Normal/hard/soft attack

F–G: muted, short

A–B: muted, long



04 Cym-Crash_15Z_Brush

Range: C4–B4

Samples: 7

RAM: 1 MB

Level 2

Brushes: Normal hit, rubs, and muted hits

1 velocity layer

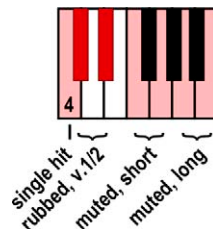
Mapping:

C4: Single hit, normal

C#4–D#4: Rubs, var. 1/2

F4–G4: muted, short

A4–B4: muted, long



05 Cym-Crash_15Z_Rod**Range: C4–B4****Samples: 6****RAM: 1 MB****Level 2**

Metal rod: Normal hit, rub, and muted hits
1 velocity layer

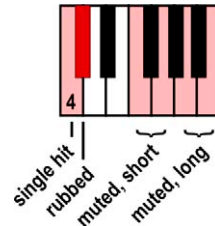
Mapping:

C4: Single hit, normal

C#4: Rub

F4–G4: muted, short

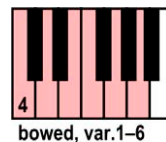
A4–B4: muted, long

**06 Cym-Crash_15Z_Bow****Range: C4–A4****Samples: 6****RAM: 1 MB****Level 2**

Bowed, variations 1–6
1 velocity layer

Mapping:

C4–A4: bowed, var. 1–6

**11 Cym-Crash_16Z_Stick (Mallet/Tmp)****Range: C3–B5****Samples: 105****RAM: 6 MB****Level 2**

11 Wood sticks/12 Mallet/13 Timpani mallet
Rim, middle, and dome hits
Normal and damped
5 velocity layers

Mapping:

C3–B3 – rim hits

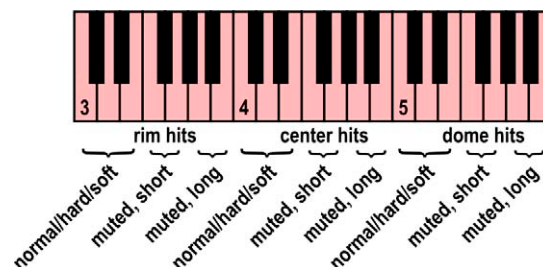
C4–B4 – body hits

C5–B5 – dome hits

C–E: Normal/hard/soft attack

F–G: muted, short

A–B: muted, long



14 Cym-Crash_16Z_Brush

Range: C3–C5

Samples: 9

RAM: 1 MB

Level 2

Brushes: Rim, middle, and dome hits

Middle rubs

1 velocity layer

Mapping:

Rim:

C3: Single hit, normal

D3–E3: muted, short/long

Body:

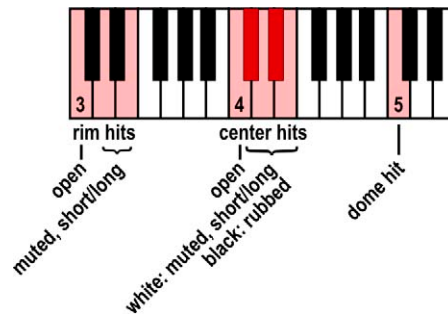
C4: Single hit, normal

C#4–D#4: Rubs

D4–E4: muted, short/long

Dome:

C5: Single hit, normal

**15 Cym-Crash_16Z_Rod**

Range: C3–C5

Samples: 8

RAM: 1 MB

Level 2

Metal rod: Rim, middle, and dome hits

Middle rub

1 velocity layer

Mapping:

Rim:

C3: Single hit, normal

D3–E3: muted, short/long

Body:

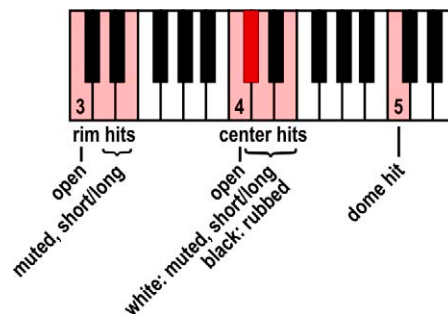
C4: Single hit, normal

C#4: Rub

D4–E4: muted, short/long

Dome:

C5: Single hit, normal

**16 Cym-Crash_16Z_Bow**

Range: C4–F4

Samples: 4

RAM: 1 MB

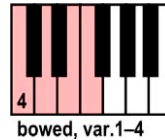
Level 2

Bowed, variations 1–4

1 velocity layer

Mapping:

C4–F4: bowed, var. 1–4

**08 CYMBAL China****Level 2:** 18" and 22" Chinese cymbals

Drumsticks, mallets, timpani mallets, brushes, metal rod, and bowed

Rim and middle hits, normal and damped

01 Cym-China_18Z_Stick (Mallet/Tmp)**Range:** C3–B4**Samples:** 70**RAM:** 4 MB**Level 2**

01 Wood sticks/02 Mallet/03 Timpani mallet

Rim and middle hits

Normal and damped

5 velocity layers

Mapping:

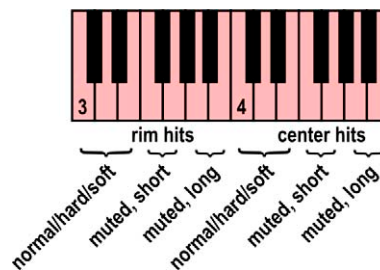
C3–B3 – rim hits

C4–B4 – body hits

C–E: Normal/hard/soft attack

F–G: muted, short

A–B: muted, long

**04 Cym-China_18Z_Brush****Range:** C4–G4**Samples:** 6**RAM:** 1 MB**Level 2**

Brushes: Normal hits, rubs, and muted hits

1 velocity layer

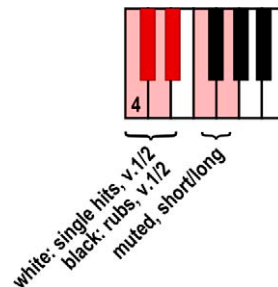
Mapping:

C4–D4: Single hits, normal

C#4–D#4: Rubs, var. 1/2

F4: muted, short

G4: muted, long



05 Cym-China_18Z_Rod**Range: C4–G4****Samples: 4****RAM: 1 MB****Level 2**

Metal rod: Normal hit, rub, and muted hits
1 velocity layer

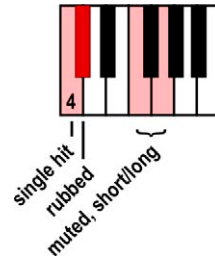
Mapping:

C4: Single hit, normal

C#4: Rub

F4: muted, short

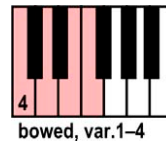
G4: muted, long

**06 Cym-China_18Z_Bow****Range: C4–F4****Samples: 4****RAM: 1 MB****Level 2**

Bowed, variations 1–4
1 velocity layer

Mapping:

C4–F4: bowed, var. 1–4

**11 Cym-China_22Z_Stick (Mallet/Tmp)****Range: C3–B4****Samples: 69****RAM: 4 MB****Level 2**

11 Wood sticks/12 Mallet/13 Timpani mallet
Rim and middle hits
Normal and damped
5 velocity layers

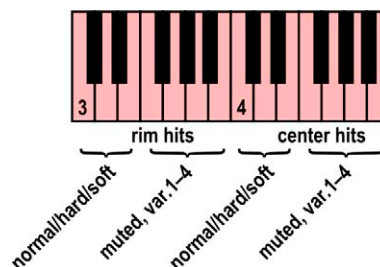
Mapping:

C3–B3 – rim hits

C4–B4 – body hits

C–E: Normal/hard/soft attack

F–B: muted, var. 1–4



14 Cym-China_22Z_Brush**Range: C4–G4****Samples: 4****RAM: 1 MB****Level 2**

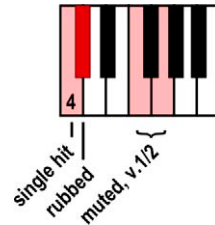
Brushes: Normal hit, rub, and muted hits
1 velocity layer

Mapping:

C4: Single hit, normal

C#4: Rub

F4–G4: muted, var. 1/2

**15 Cym-China_22Z_Rod****Range: C4–G4****Samples: 4****RAM: 1 MB****Level 2**

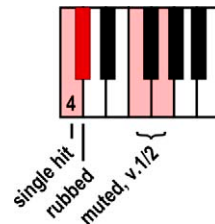
Metal rod: Normal hit, rub, and muted hits
1 velocity layer

Mapping:

C4: Single hit, normal

C#4: Rub

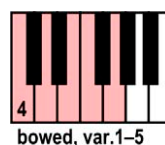
F4–G4: muted, var. 1/2

**16 Cym-China_22Z_Bow****Range: C4–G4****Samples: 5****RAM: 1 MB****Level 2**

Bowed, variations 1–5
1 velocity layer

Mapping:

C4–G4: bowed, var. 1–5



09 CYMBAL Ride

Level 2: 20" and 22" ride cymbals

Drumsticks, mallets, timpani mallets, brushes, metal rod, and bowed

Rim, middle and dome hits, normal and damped

01 Cym-Ride_20Z_Stick (Mallet/Tmp)

Range: C3–B5

Samples: 101

RAM: 6 MB

Level 2

01 Wood sticks/02 Mallet/03 Timpani mallet

Rim, middle, and dome hits

Normal and damped

5 velocity layers

Mapping:

C3–B3 – rim hits

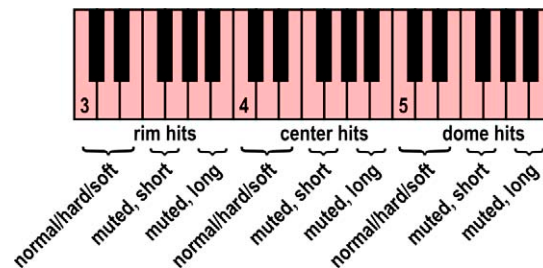
C4–B4 – body hits

C5–B5 – dome hits

C–E: Normal/hard/soft attack

F–G: muted, short

A–B: muted, long



04 Cym-Ride_20Z_Brush

Range: C4–G4

Samples: 4

RAM: 1 MB

Level 2

Brushes: Normal hit, rub, and muted hits

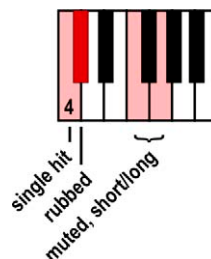
1 velocity layer

Mapping:

C4: Single hit, normal

C#4: Rub

F4–G4: muted, short/long



05 Cym-Ride_20Z_Rod**Range: C4–G4****Samples: 4****RAM: 1 MB****Level 2**

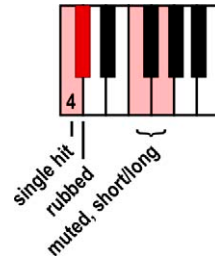
Metal rod: Normal hit, rub, and muted hits
1 velocity layer

Mapping:

C4: Single hit, normal

C#4: Rub

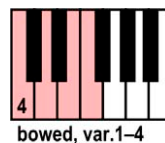
F4–G4: muted, short/long

**06 Cym-Ride_20Z_Bow****Range: C4–F4****Samples: 4****RAM: 1 MB****Level 2**

Bowed, variations 1–4
1 velocity layer

Mapping:

C4–F4: bowed, var. 1–4

**11 Cym-Ride_22Z_Stick (Mallet/Tmp)****Range: C3–B5****Samples: 105****RAM: 6 MB****Level 2**

11 Wood sticks/12 Mallet/13 Timpani mallet
Rim, middle, and dome hits
Normal and damped
5 velocity layers

Mapping:

C3–B3 – rim hits

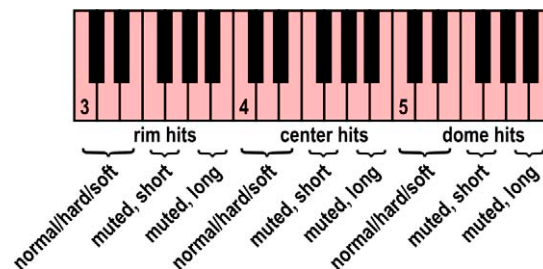
C4–B4 – body hits

C5–B5 – dome hits

C–E: Normal/hard/soft attack

F–G: muted, short

A–B: muted, long



14 Cym-Ride_22Z_Brush

Range: C3–G5

Samples: 11

RAM: 1 MB

Level 2

Brushes: Rim, middle, and dome hits

Middle rubs

1 velocity layer

Mapping:

Rim:

C3: Single hit, normal

F3–G3: muted, short/long

Body:

C4: Single hit, normal

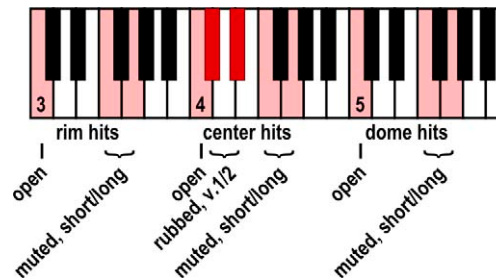
C#4–D#4: Rubs

F4–G4: muted, short/long

Dome:

C5: Single hit, normal

F5–G5: muted, short/long

**15 Cym-Ride_22Z_Rod**

Range: C3–G5

Samples: 10

RAM: 1 MB

Level 2

Metal rod: Rim, middle, and dome hits

Middle rub

1 velocity layer

Mapping:

Rim:

C3: Single hit, normal

F3–G3: muted, short/long

Body:

C4: Single hit, normal

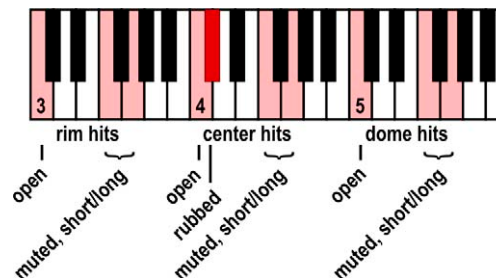
C#4: Rub

F4–G4: muted, short/long

Dome:

C5: Single hit, normal

F5–G5: muted, short/long



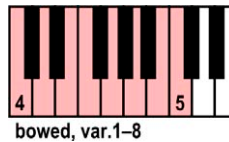
16 Cym-Ride_22Z_Bow**Range: C4–C5****Samples: 8****RAM: 1 MB****Level 2**

Bowed, variations 1–8

1 velocity layer

Mapping:

C4–C5: bowed, var. 1–8

**10 CYMBAL Splash****Level 2:** 6", 8", and 12" splash cymbals

Drumsticks, mallets, timpani mallets, brushes, metal rod, and bowed

Rim, middle and dome hits, normal and damped

01 Cym-Splash_6Z_Stick**Range: C4–B4****Samples: 35****RAM: 2 MB****Level 2**

Wood sticks: Single hits, normal, hard, and soft attack

Damped, var. 1–4

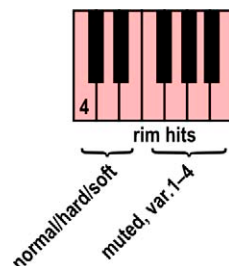
5 velocity layers

Mapping:

Rim hits:

C4–E4: Single hits, normal/hard/soft attack

F4–B4: muted, var. 1–4

**02 Cym-Splash_6Z_Mallet (Tmp)****Range: C4–B4****Samples: 35****RAM: 2 MB****Level 2**

02 Mallet/03 Timpani mallet

Single hits, normal, hard, and soft attack

Damped, short and long

5 velocity layers

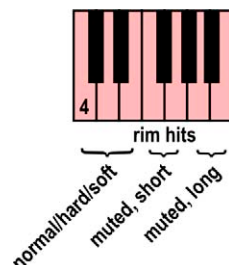
Mapping:

Rim hits:

C4–E4: Single hits, normal/hard/soft attack

F4–G4: muted, short

A4–B4: muted, long



04 Cym-Splash_6Z_Brush (Rod)**Range: C4–G4****Samples: 4****RAM: 1 MB****Level 2**

04 Brushes/05 Metal rod

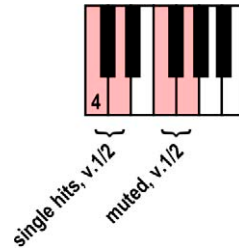
Normal and muted hits

1 velocity layer

Mapping:

C4–D4: Single hits, normal

F4–G4: muted, var. 1/2

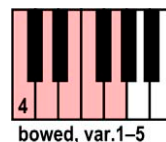
**06 Cym-Splash_6Z_Bow****Range: C4–G4****Samples: 5****RAM: 1 MB****Level 2**

Bowed, variations 1–5

1 velocity layer

Mapping:

C4–G4: bowed, var. 1–5



bowed, var. 1–5

11 Cym-Splash_8Z_Stick**Range: C3–B4****Samples: 70****RAM: 4 MB****Level 2**

Wood sticks: Rim and middle hits

Normal and damped

5 velocity layers

Mapping:

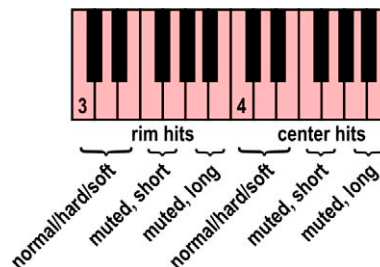
C3–B3 – rim hits

C4–B4 – body hits

C–E: Normal/hard/soft attack

F–G: muted, short

A–B: muted, long



12 Cym-Splash_8Z_Mallet (Tmp)

Range: C4–B4

Samples: 28

RAM: 1 MB

Level 2

12 Mallet/13 Timpani mallet

Rim hits, normal, hard, and soft attack

Damped, short and long

4 velocity layers

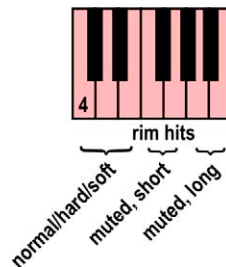
Mapping:

Rim hits:

C4–E4: Single hits, normal/hard/soft attack

F4–G4: muted, short

A4–B4: muted, long

**14 Cym-Splash_8Z_Brush (Rod)**

Range: C4–G4

Samples: 4

RAM: 1 MB

Level 2

14 Brushes/15 Metal rod

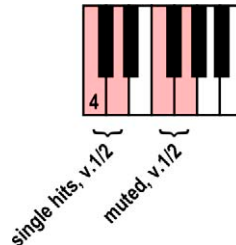
Normal and muted hits

1 velocity layer

Mapping:

C4–D4: Single hits, normal

F4–G4: muted, var. 1/2

**16 Cym-Splash_8Z_Bow**

Range: C4–A4

Samples: 6

RAM: 1 MB

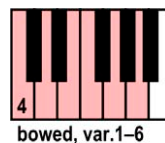
Level 2

Bowed, variations 1–6

1 velocity layer

Mapping:

C4–A4: bowed, var. 1–6



21 Cym-Splash_12Z_Stick (Mallet/Tmp)**Range: C3–B4****Samples: 70****RAM: 4 MB****Level 2**

21 Wood sticks/22 Mallet/23 Timpani mallet
 Rim and dome hits
 Normal and damped
 5 velocity layers

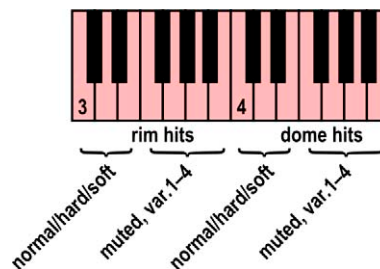
Mapping:

C3–B3 – rim hits

C4–B4 – dome hits

C–E: Normal/hard/soft attack

F–B: muted, var. 1–4

**24 Cym-Splash_12Z_Brush (Rod)****Range: C4–C5****Samples: 4****RAM: 1 MB****Level 2**

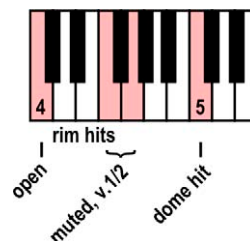
24 Brushes/25 Metal rod
 Rim hits, normal and damped
 Dome hit, normal
 1 velocity layer

Mapping:

C4: rim hit, normal

F4–G4: rim hits, muted, var. 1–2

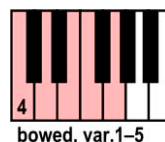
C5: dome hit, normal

**26 Cym-Splash_12Z_Bow****Range: C4–G4****Samples: 5****RAM: 1 MB****Level 2**

Bowed, var. 1–5
 1 velocity layer

Mapping:

C4–G4: bowed, var. 1–5



11 FINGER CYMBALS

Level 1: Low and high finger cymbals
Normal and side strokes, rubs

01 Finger_cymbals

Range: C4–E5

Samples: 10

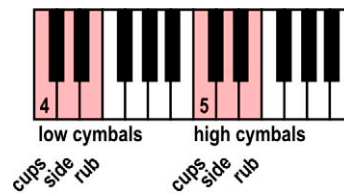
RAM: 1 MB

Level 1

Low and high finger cymbals
Normal strokes, side strokes, and rubs
2 velocity layers

Mapping:

C4–E4 – low cymbals
C5–E5 – high cymbals
C: normal stroke
D: side stroke
E: rub



12 TAM - A

Level 1: Single hits, normal and hard sound
Tremolo
Scratches

12 TAM-A

Range: C4–D6

Samples: 39

RAM: 2 MB

Level 1

Tam-tam A: Single hits, normal and hard sound
Tremolo
Scratches

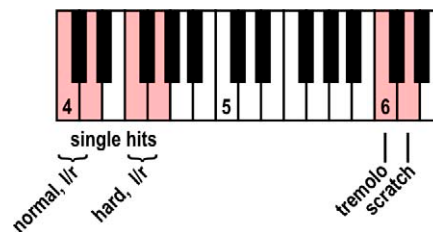
Velocity mapping: Single hits, 8 layers: 0–15 ppp, 16–35 pp, 36–55 p, 56–70 mp, 71–88 mf, 89–108 f, 109–118 ff, 119–127 fff

Tremolo, 4 layers

Scratches, 3 layers

Mapping:

C4–D4: single hits, normal, l/r
F4–G4: single hits, hard sound, l/r
C6: tremolo
D6: long scratch



13 TAM - series B

Level 1: 60, 100, 130 cm tam-tams

Various beaters

Single hits and rubs

Level 2: 52, 85, 110 cm tam-tams

Various beaters

Single hits and rubs

01 Tam-B_52

Range: C4–C5

Samples: 7

RAM: 1 MB

Level 2

Tam-tam, 52 cm: Soft felt and metal beaters

Single hits, rub

Velocity mapping: Soft mallet, 4 layers

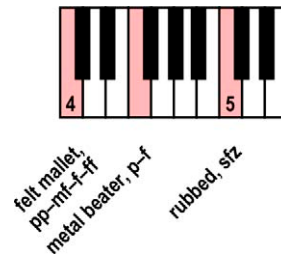
Metal beater, 2 layers

Mapping:

C4: soft felt mallet (pp–ff)

F4: metal beater

C5: metal beater, sforzato rub



02 Tam-B_60

Range: C4–C5

Samples: 7

RAM: 1 MB

Level 1

Tam-tam, 60 cm: Soft felt and metal beaters

Single hits, rub

Velocity mapping: Soft mallet, 4 layers

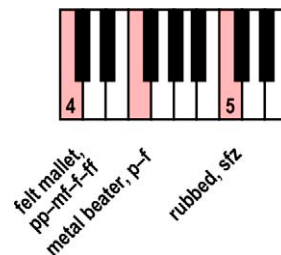
Metal beater, 2 layers

Mapping:

C4: soft felt mallet (pp–ff)

F4: metal beater

C5: metal beater, sforzato rub



03 Tam-B_85

Range: C3–E5

Samples: 12

RAM: 1 MB

Level 2

Tam-tam, 85 cm: Various beaters

Single hits, rubs

Velocity mapping: Soft mallet, 4 layers

Metal beater, 2 layers

All others, 1 layer

Mapping:

C3: large metal beater, long rub

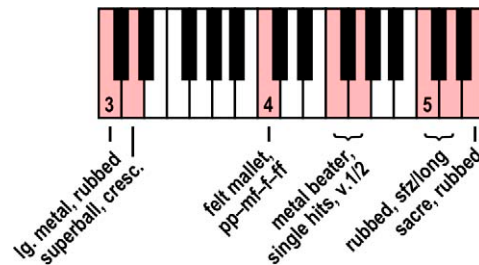
sD3: superbail, rub crescendo

C4: soft felt mallet (pp–ff)

F4–G4: single hits, metal beaters

C5–D5: metal beater, rub sforzato/long

E5: rub, Sacre stick

**04 Tam-B_100**

Range: C3–E5

Samples: 14

RAM: 1 MB

Level 1

Tam-tam, 100 cm: Various beaters

Single hits

Rubs (AB switch)

Velocity mapping: Soft mallet, 4 layers

Metal beater, 2 layers

All others, 1 layer

Release samples

AB switch: release duration long/short

Mapping:

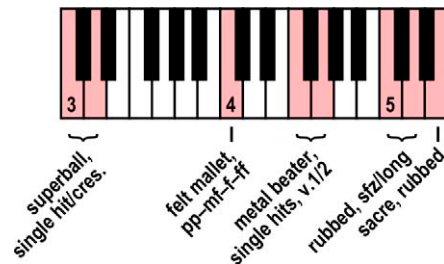
C3–D3: superbail, rub normal/crescendo

C4: soft felt mallet (pp–ff)

F4–G4: single hits, metal beaters

C5–D5: metal beater, rub sforzato/long

E5: rub, Sacre stick



05 Tam-B_110

Range: C3–E5

Samples: 14

RAM: 1 MB

Level 2

Tam-tam, 110 cm: Various beaters

Single hits

Rubs (AB switch)

Velocity mapping: Soft mallet, 4 layers

Metal beater, 2 layers

All others, 1 layer

Release samples

AB switch: release duration long/short

Mapping:

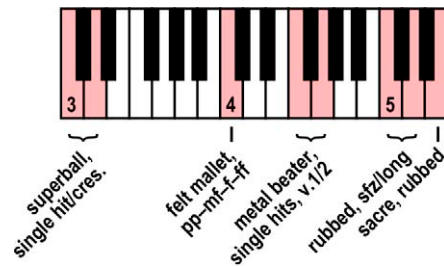
C3–D3: superball, rub normal/crescendo

C4: soft felt mallet (pp–ff)

F4–G4: single hits, metal beaters

C5–D5: metal beater, rub sforzato/long

E5: rub, Sacre stick

**06 Tam-B_130**

Range: C3–E5

Samples: 14

RAM: 1 MB

Level 1

Tam-tam, 130 cm: Various beaters

Single hits

Rubs (AB switch)

Velocity mapping: Soft mallet, 4 layers

Metal beater, 2 layers

All others, 1 layer

Release samples

AB switch: release duration long/short

Mapping:

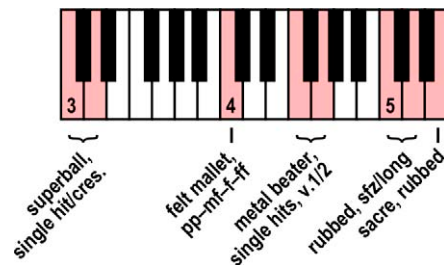
C3–D3: superball, rub normal/crescendo

C4: soft felt mallet (pp–ff)

F4–G4: single hits, metal beaters

C5–D5: metal beater, rub sforzato/long

E5: rub, Sacre stick



14 TAM - series C

Level 2: 30, 40, 50, 60, 70, 80, 90 cm tam-tams

Single hits normal and surface

Scrapes normal and rotating

01 Tam-C_30 (40/50/60)

Range: C4–F4

Samples: 7

RAM: 1 MB

Level 2

Tam-tam, 30/40/50/60 cm

Single hits, normal and surface

Velocity mapping: Normal hits, 5 layers

Surface, 2 layers

Mapping:

C4: single hits, normal (p–ff)

F4: surface strokes



single hits,
p–mp–mf–f–ff
surface strokes, p–f

05 Tam-C_70 (80/90)

Range: C3–D5

Samples: 21

RAM: 1 MB

Level 2

Tam-tam, 70/80/90 cm

Rotating scrapes (AB switch)

Single hits and scrapes

Velocity mapping: Normal hits, 5 layers

Rotating scrapes and triangle beater single hits, 2 layers

Triangle beater scrapes, 1 layer

Release samples

AB switch: release duration long/short

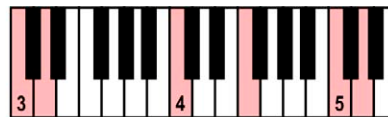
Mapping:

C3–D3: rotating scrape, triangle beater/brushes

C4: single hits, normal (p–ff)

F4: single hits, triangle beater (p/f)

C5–D5: scrapes, triangle beater, middle/rim



triangle beater/brushes,
rotating scrape
single hits,
p–mp–mf–f–ff
triangle beater,
single hits
triangle beater,
scraped, middle/rim

15 GONGS

Level 1: Soft and wood mallets

Single notes

Level 2: Soft and wood mallets, rolls normal and crescendo

Metal mallets and bowed, single notes

01 Gongs_SO Soft mallets: Single notes 3 velocity layers	Range: C2–A5	Samples: 132	RAM: 8 MB	Level 1
02 Gongs_SO_roll Soft mallets: Rolls 2 velocity layers Release samples AB switch: release duration long/short	Range: A2–A4	Samples: 120	RAM: 7 MB	Level 2
03 Gongs_SO_roll-cre Soft mallets: Rolls, crescendo 1 velocity layer	Range: A2–A4	Samples: 20	RAM: 1 MB	Level 2
04 Gongs_Wood Wood mallets: Single notes 1 velocity layer	Range: A#2–A5	Samples: 32	RAM: 2 MB	Level 1
05 Gongs_Wood_roll Wood mallets: Rolls 1 velocity layer Release samples AB switch: release duration long/short	Range: A2–A4	Samples: 60	RAM: 3 MB	Level 2
06 Gongs_Wood_roll-cre Wood mallets: Rolls, crescendo 1 velocity layer	Range: A2–A4	Samples: 20	RAM: 1 MB	Level 2
07 Gongs_Metal Metal mallets: Single notes 1 velocity layer	Range: A2–A5	Samples: 32	RAM: 2 MB	Level 2
08 Gongs_Bow-1 Bowed, variation 1 Single notes 1 velocity layer	Range: A2–A5	Samples: 32	RAM: 2 MB	Level 2
09 Gongs_Bow-2 Bowed, variation 2 Single notes 1 velocity layer	Range: A3–A5	Samples: 20	RAM: 1 MB	Level 2

16 CHINA GONGS

Level 2: Single hits
Rolls normal and crescendo

01 China-Gongs

Range: C4–A6

Samples: 78

RAM: 4 MB

Level 2

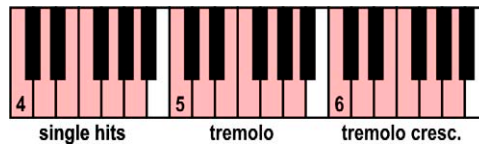
Single hits
Rolls normal (AB switch) and crescendo
3 velocity layers
Release samples
AB switch: release duration long/short

Mapping:

C4–A4: single hits, var. 1–6 (p/mf/ff)

C5–A5: tremolo, var. 1–6

C6–A6: tremolo crescendo, var. 1–6



17 PEKING OPERA GONGS

Level 2: Single hits
Rolls crescendo, slow, medium, and fast

01 Peking-Opera-Gongs

Range: C4–G7

Samples: 29

RAM: 1 MB

Level 2

Single hits
Rolls crescendo slow, medium, and fast
3 velocity layers

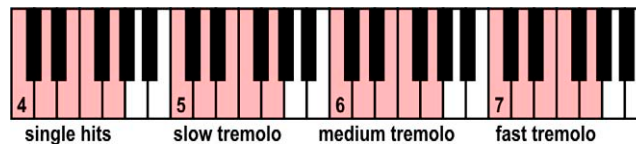
Mapping:

C4–G4: single hits, var. 1–5 (p/mf/ff)

C5–G5: tremolo crescendo slow, var. 1–5

C6–G6: tremolo crescendo medium, var. 1–5

C7–G7: tremolo crescendo fast, var. 1–5



Matrices

Matrix - LEVEL 1

L1 01 Piatti

Samples: 167 RAM: 10 MB [Level 1](#)

Piatti A: Single hits

Piatti B: 13, 18, 20, and 22"

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
V1	01 Piatti-A_Single-Hits	02 Piatti-B_13Z-Za	06 Piatti-B_18Z-Is	07 Piatti-B_20Z-Is	09 Piatti-B_22Z-Za

L1 02 Cymbals

Samples: 222 RAM: 13 MB [Level 1](#)

Patches:

01 Cym-A_Stick

02 Cym-A_Mallet

Matrix switches: Horizontal: Keyswitches, C1–C#1

	C1	C#1
V1	01 Cym-A_Stick	02 Cym-A_Mallet

L1 03 Finger cymbals

Samples: 10 RAM: 1 MB [Level 1](#)

Patch: 01 Finger_cymbals

L1 04 Tamtam-A

Samples: 39 RAM: 2 MB [Level 1](#)

Patch: 12 Tam-A

L1 05 Tamtam serie-B

Samples: 35 RAM: 2 MB [Level 1](#)

Patches:

02 Tam-B_60

04 Tam-B_100

06 Tam-B_130

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
V1	02 Tam-B_60	04 Tam-B_100	06 Tam-B_130

L1 06 Gongs

Samples: 164 RAM: 10 MB [Level 1](#)

Patches:

01 Gongs_SO

04 Gongs_Wood

Matrix switches: Horizontal: Keyswitches, C1–C#1

	C1	C#1
V1	01 Gongs_SO	04 Gongs_Wood

Matrix - LEVEL 2**01 Piatti all****Samples: 256 RAM: 16 MB Level 2**

Piatti A: Single hits

Piatti B: 13", 15", 16" K and K2, 18", 20" Istanbul and Avedis, 22"

Matrix switches: Horizontal: Keyswitches, C1–A1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1
V1	01 Piatti-A_Single-Hits	01 Piatti-B_11Z-Chi	02 Piatti-B_13Z-Za	03 Piatti-B_15Z-Za	04 Piatti-B_16Z-K	05 Piatti-B_16Z-K2	06 Piatti-B_18Z-Is	07 Piatti-B_20Z-Is	08 Piatti-B_20Z-Za	09 Piatti-B_22Z-Za

02 Cymbal-A all**Samples: 222 RAM: 13 MB Level 2**

Patches:

01 Cym-A_Stick

02 Cym-A_Mallet

Matrix switches: Horizontal: Keyswitches, C1–C#1

	C1	C#1
V1	01 Cym-A_Stick	02 Cym-A_Mallet

03 Cymbal-B all**Samples: 122 RAM: 7 MB Level 2**

Cymbal B

Drumsticks, mallets, metal mallets, brushes

Matrix switches: Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
V1	01 Cym-B_Stick	02 Cym-B_Mallet	03 Cym-B_Metal	04 Cym-B_Brush

04 Cymbal-C all**Samples: 108 RAM: 6 MB Level 2**

Cymbal C

Drumsticks, mallets, metal mallets

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
V1	01 Cym-C_Stick	02 Cym-C_Mallet	03 Cym-C_Metal

05 Cymbal-D all**Samples: 126 RAM: 7 MB Level 2**

Cymbal D

Drumsticks, mallets, metal mallets, brushes

Matrix switches: Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
V1	01 Cym-D_Stick	02 Cym-D_Mallet	03 Cym-D_Metal	04 Cym-D_Brush

06 Cymbal crash 15Z all**Samples: 334 RAM: 20 MB Level 2**

15" crash cymbal

Drumsticks, mallets, timpani mallets, brushes, metal rod, bowed

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
V1	01 Stick	02 Mallet	03 Timpani m.	04 Brush	05 Rod	06 Bow

07 Cymbal crash 16Z all**Samples: 336 RAM: 21 MB Level 2**

16" crash cymbal

Drumsticks, mallets, timpani mallets, brushes, metal rod, bowed

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
V1	11 Stick	12 Mallet	13 Timpani m.	14 Brush	15 Rod	16 Bow

08 Cymbal china 18Z all**Samples: 224 RAM: 14 MB Level 2**

18" China cymbal

Drumsticks, mallets, timpani mallets, brushes, metal rod, bowed

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
V1	01 Stick	02 Mallet	03 Timpani m.	04 Brush	05 Rod	06 Bow

09 Cymbal china 22Z all**Samples: 222 RAM: 13 MB Level 2**

22" China cymbal

Drumsticks, mallets, timpani mallets, brushes, metal rod, bowed

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
V1	11 Stick	12 Mallet	13 Timpani m.	14 Brush	15 Rod	16 Bow

10 Cymbal ride 20Z all**Samples: 323 RAM: 20 MB Level 2**

20" ride cymbal

Drumsticks, mallets, timpani mallets, brushes, metal rod, bowed

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
V1	01 Stick	02 Mallet	03 Timpani m.	04 Brush	05 Rod	06 Bow

11 Cymbal ride 22Z all**Samples: 344 RAM: 21 MB Level 2**

22" ride cymbal

Drumsticks, mallets, timpani mallets, brushes, metal rod, bowed

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
V1	11 Stick	12 Mallet	13 Timpani m.	14 Brush	15 Rod	16 Bow

12 Cymbal splash 6Z all**Samples: 118 RAM: 7 MB Level 2**

6" splash cymbal

Drumsticks, mallets, timpani mallets, brushes, metal rod, bowed

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
V1	01 Stick	02 Mallet	03 Timpani m.	04 Brush	05 Rod	06 Bow

13 Cymbal splash 8Z all**Samples: 147 RAM: 9 MB Level 2**

8" splash cymbal

Drumsticks, mallets, timpani mallets, brushes, metal rod, bowed

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
V1	11 Stick	12 Mallet	13 Timpani m.	14 Brush	15 Rod	16 Bow

14 Cymbal splash 12Z all**Samples: 220 RAM: 13 MB Level 2**

12" splash cymbal

Drumsticks, mallets, timpani mallets, brushes, metal rod, bowed

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
V1	21 Stick	22 Mallet	23 Timpani m.	24 Brush	25 Rod	26 Bow

15 Finger cymbals all**Samples: 10 RAM: 1 MB Level 2**

Patch: 01 Finger_cymbals

16 Tamtam-A all**Samples: 39 RAM: 2 MB Level 2**

Patch: 12 Tam-A

17 Tamtam serie-B all**Samples: 68 RAM: 4 MB Level 2**

Patches:

01 Tam-B_52, 02 Tam-B_60, 03 Tam-B_85, 04 Tam-B_100, 05 Tam-B_110, 06 Tam-B_130

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
V1	01 Tam-B_52	02 Tam-B_60	03 Tam-B_85	04 Tam-B_100	05 Tam-B_110	06 Tam-B_130

18 Tamtam serie-C all**Samples: 95 RAM: 5 MB Level 2**

Patches:

01 Tam-C_30, 02 Tam-C_40, 03 Tam-C_50, 04 Tam-C_60, 05 Tam-C_70, 06 Tam-C_80, 07 Tam-C_90

Matrix switches: Horizontal: Keyswitches, C1–F#1

	C1	C#1	D1	D#1	E1	F1	F#1
V1	01 Tam-C_30	02 Tam-C_40	03 Tam-C_50	04 Tam-C_60	05 Tam-C_70	06 Tam-C_80	07 Tam-C_90

19 Gongs all**Samples: 468 RAM: 29 MB Level 2**

Soft, wood, and metal mallets, bowed

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1
V1	soft mallets	soft mallets, rolls	soft mallets, rolls crescendo	metal mallets	bowed #1	
V2	wood mallets	wood mallets, rolls	wood mallets, rolls crescendo	metal mallets	bowed #2	

20 Exotic gongs all**Samples: 107 RAM: 6 MB Level 2**

China gongs and Peking Opera gongs

Matrix switches: Horizontal: Keyswitches, C1–C#1

	C1	C#1
V1	China gongs	Peking Opera gongs

Presets

Cymbals VSL Preset Level 1

Samples: 637 RAM: 39 MB [Level 1](#)

Matrices:

L1 01 Piatti
 L1 02 Cymbals
 L1 03 Finger cymbals
 L1 04 Tamtam-A
 L1 05 Tamtam serie-B
 L1 08 Gongs

Keyswitches: C7-F7

Cymbals VSL Preset Level 2

Samples: 1850 RAM: 115 MB [Level 2](#)

Matrices:

01 Piatti all
 02 Cymbal-A all
 03 Cymbal-B all
 07 Cymbal crash 16Z all
 09 Cymbal china 22Z all
 15 Finger cymbals all
 16 Tamtam-A all, 17 Tamtam serie-B all
 19 Gongs all
 20 Exotic Gongs all

Keyswitches: C7-A7

84 Mallets

The mallets are the melody instruments in the percussion group. The tasks performed by the mallet instruments in the orchestra are determined by their sound characteristics and are consequently many and varied.

Patches

01 CELESTA

Level 1: Single notes, sustained, normal and soft sound

Level 2: Single notes, staccato

Glissandos, diatonic and pentatonic, slow and fast, up and down

01 CELESTA_sustain	Range: C2–F7	Samples: 264	RAM: 16 MB	Level 1
Single notes, sustained 4 velocity layers				
02 CELESTA_sustain-soft	Range: C2–F7	Samples: 264	RAM: 16 MB	Level 1
Single notes, sustained Soft sound 4 velocity layers				
03 CELESTA_staccato	Range: C2–F7	Samples: 132	RAM: 8 MB	Level 2
Single notes, staccato 2 velocity layers				

04 CELESTA_glissandi

Range: C3–A6

Samples: 36

RAM: 2 MB

Level 2

Glissandos

Diatonic and pentatonic

Slow and fast

Up and down

1 velocity layer

AB switch: up/down

Mapping:

C3–G3 – slow glissandos

C4–G4 – fast glissandos

C–E: diatonic low range/high range/full

C#–F#: pentatonic low range/high range/full

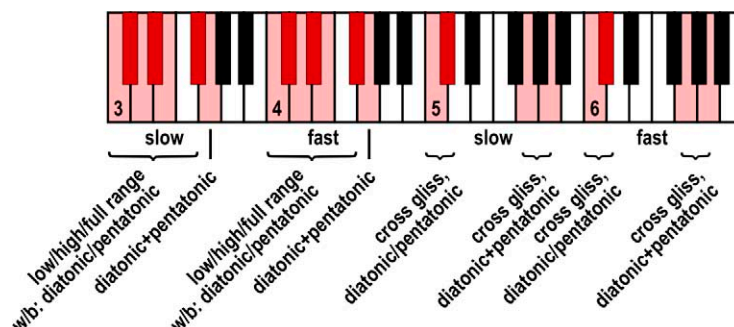
G: diatonic and pentatonic, full

C5–A5 – slow glissandos

C6–A6 – fast glissandos

C–C#: cross glissando, diatonic/pentatonic

G–A: cross glissandos, diatonic and pentatonic, var. 1/2

**02 GLOCKENSPIEL - A**

The Glockenspiel is mapped an octave lower than it sounds.

02 GLOCKENSPIEL - A/01 Metal Mallet**Level 1:** Single notes

Rolls

Glissandos fast, chromatic and diatonic, up and down

Level 2: Single notes with vibrato

Rolls crescendo

Chord tremolos

01 Glsp-A_ME_Single-Hits

Range: F4–D7

Samples: 204

RAM: 12 MB

Level 1

Metal mallets: Single notes

3 velocity layers

2 Alternations

02 Glsp-A_ME_Single-Hits_Vib

Range: F4–D7

Samples: 68

RAM: 4 MB

Level 2

Metal mallets: Single notes, with vibrato

2 velocity layers

03 Glsp-A_ME_Roll	Range: F4–D7	Samples: 136	RAM: 8 MB	Level 1
Metal mallets: Rolls 2 velocity layers Release samples				
04 Glsp-A_ME_Roll_cre	Range: F4–D7	Samples: 34	RAM: 2 MB	Level 2
Metal mallets: Rolls, crescendo 1 velocity layer				
05 Glsp-A_ME_Roll_chords	Range: F4–D7	Samples: 136	RAM: 8 MB	Level 2
Metal mallets: Rolls for chord or alternating tremolos 2 velocity layers Release samples				
06 Glsp-A_ME_Glissandi	Range: C3–D7	Samples: 56	RAM: 3 MB	Level 1
Metal mallets: Glissandos, fast, up and down Chromatic and diatonic Starting notes for chromatic upward glissandos: F#5–G#5, B5, C6, D6, E6, F6, G#6, A6, B6, C7 1 velocity layer AB switch: up/down				

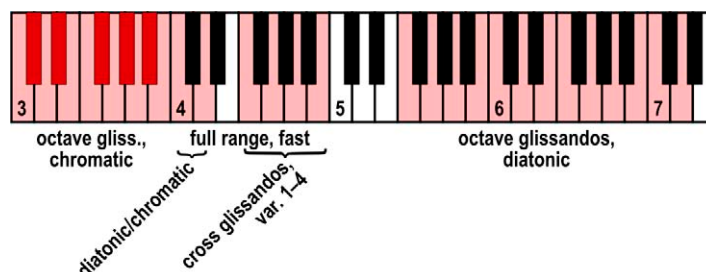
Mapping:

C3–B3: octaves, chromatic, up and down

C4–D4: full range, diatonic/chromatic, up and down

F4–B4: cross glissandos, full range, var. 1–4

F5–D7: octaves, diatonic, up and down (C7 and D7 down only)

**02 GLOCKENSPIEL - A/02 Wood Mallet****Level 1:** Single notes

Rolls

Level 2: Single notes with vibrato

01 Glsp-A_WO_Single-Hits	Range: F4–D7	Samples: 204	RAM: 12 MB	Level 1
Wood mallets: Single notes 3 velocity layers 2 Alternations				
02 Glsp-A_WO_Single-Hits_Vib	Range: F4–D7	Samples: 68	RAM: 4 MB	Level 2
Wood mallets: Single notes, with vibrato 2 velocity layers				

03 Glsp-A_WO_Roll

Range: F4–D7

Samples: 136

RAM: 8 MB

Level 1

Wood mallets: Rolls
2 velocity layers
Release samples

02 GLOCKENSPIEL - A/03 Plastic Mallet

Level 2: Single notes normal and vibrato
Rolls normal and crescendo
Glissandos fast, diatonic, up and down
Cross glissandos diatonic and chromatic

01 Glsp-A_PL_Single-Hits

Range: F4–D7

Samples: 204

RAM: 12 MB

Level 2

Plastic mallets: Single notes
3 velocity layers
2 Alternations

02 Glsp-A_PL_Single-Hits_Vib

Range: F4–D7

Samples: 67

RAM: 4 MB

Level 2

Plastic mallets: Single notes, with vibrato
2 velocity layers

03 Glsp-A_PL_Roll

Range: F4–D7

Samples: 136

RAM: 8 MB

Level 2

Plastic mallets: Rolls
2 velocity layers
Release samples

04 Glsp-A_PL_Roll_cre

Range: F4–D7

Samples: 34

RAM: 2 MB

Level 2

Plastic mallets: Rolls, crescendo
1 velocity layer

05 Glsp-A_PL_Glissandi

Range: C4–D7

Samples: 35

RAM: 2 MB

Level 2

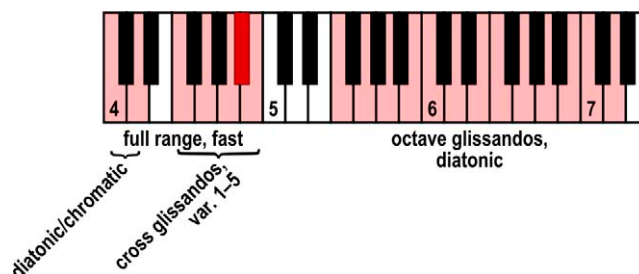
Plastic mallets: Glissandos, fast, up and down, diatonic
Cross glissandos, diatonic and chromatic
1 velocity layer
AB switch: up/down

Mapping:

C4–D4: full range, diatonic/chromatic, up and down

F4, G4, A4, A#4, B4: cross glissandos, full range, var. 1–5

F5–D7: octaves, diatonic, up and down



02 GLOCKENSPIEL - A/04 Big Metal Mallet

Level 2: Single notes normal and vibrato

Rolls normal and crescendo

Glissandos fast, diatonic and chromatic, up and down

01 Glsp-A_bME_Single-Hits	Range: F4–D7	Samples: 68	RAM: 4 MB	Level 2
Large metal mallets: Single notes 1 velocity layer 2 Alternations				
02 Glsp-A_bME_Single-Hits_Vib	Range: F4–D7	Samples: 34	RAM: 2 MB	Level 2
Large metal mallets: Single notes, with vibrato 1 velocity layer				
03 Glsp-A_bME_Roll	Range: F4–D7	Samples: 68	RAM: 4 MB	Level 2
Large metal mallets: Rolls 1 velocity layer Release samples				
04 Glsp-A_bME_Roll_cre	Range: F4–D7	Samples: 34	RAM: 2 MB	Level 2
Large metal mallets: Rolls, crescendo 1 velocity layer				
05 Glsp-A_bME_Glissandi	Range: C3–D7	Samples: 56	RAM: 3 MB	Level 2
Large metal mallets Glissandos, fast, up and down Diatonic and chromatic 1 velocity layer AB switch: up/down				

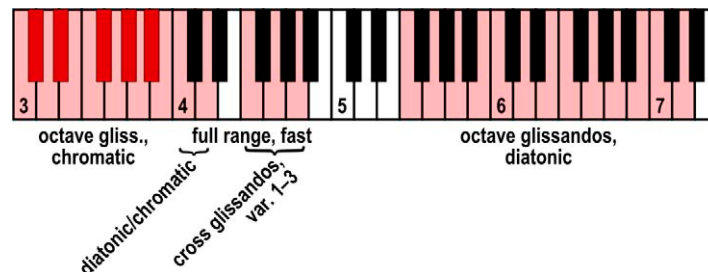
Mapping:

C3–B3: octaves, chromatic, up and down

C4–D4: full range, diatonic/chromatic, up and down

F4–A4: cross glissandos, full range, var. 1–3

F5–D7: octaves, diatonic, up and down



03 GLOCKENSPIEL - B

The Glockenspiel is mapped an octave lower than it sounds.

03 GLOCKENSPIEL - B/01 Metal Mallet

Level 2: Single notes

Rolls

Glissandos fast and slow, diatonic and chromatic, up and down

Cross glissandos, fast

01 Glsp-B_ME_Single-Hits

Range: F4–C7

Samples: 120

RAM: 7 MB

Level 2

Metal mallets: Single notes

2 velocity layers

2 Alternations

02 Glsp-B_ME_Roll

Range: F4–C7

Samples: 120

RAM: 7 MB

Level 2

Metal mallets: Rolls

2 velocity layers

Release samples

03 Glsp-B_ME_Glissandi_fa

Range: C4–C7

Samples: 32

RAM: 2 MB

Level 2

Metal mallets: Glissandos, fast, up and down

Diatonic, chromatic, and pentatonic

Cross glissandos, var. 1–4

1 velocity layer

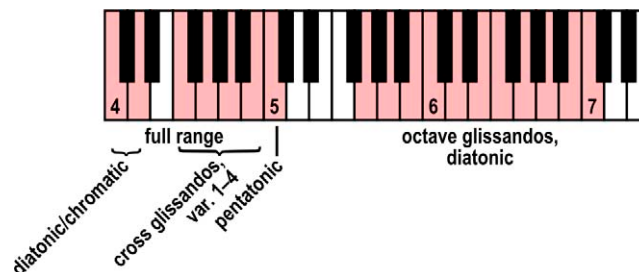
Mapping:

C4–D4: full range, diatonic/chromatic, up and down

F4–B4: cross glissandos, full range, var. 1–4

C5: full range, pentatonic, up and down

G5–C7: octaves, diatonic, up and down



04 Glsp-B_ME_Glissandi_sl**Range: C4–C7****Samples: 26****RAM: 1 MB****Level 2**

Metal mallets: Glissandos, slow, up and down

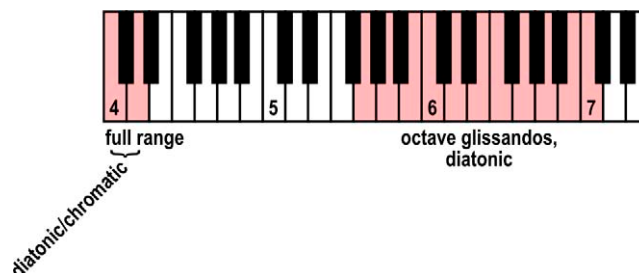
Diatonic and chromatic

1 velocity layer

Mapping:

C4–D4: full range, diatonic/chromatic, up and down

G5–C7: octaves, diatonic, up and down

**03 GLOCKENSPIEL - B/02 Wood Mallet****Level 2:** Single notes

Rolls

01 Glsp-B_WO_Single-Hits**Range: F4–C7****Samples: 120****RAM: 7 MB****Level 2**

Wood mallets: Single notes

2 velocity layers

2 Alternations

02 Glsp-B_WO_Roll**Range: F4–C7****Samples: 120****RAM: 7 MB****Level 2**

Wood mallets: Rolls

2 velocity layers

Release samples

03 GLOCKENSPIEL - B/03 Plastic Mallet**Level 2:** Single notes

Rolls

01 Glsp-B_PL_Single-Hits**Range: F4–C7****Samples: 180****RAM: 11 MB****Level 2**

Plastic mallets: Single notes

3 velocity layers

2 Alternations

02 Glsp-B_PL_Roll**Range: F4–C7****Samples: 149****RAM: 9 MB****Level 2**

Plastic mallets: Rolls

2 velocity layers

Release samples

04 XYLOPHONE

The Xylophone is mapped an octave lower than it sounds.

04 XYLOPHONE/01 Wood Mallet

Level 1: Single notes

Rolls normal

Level 2: Rolls strong dynamics, 0.5., 1, and 3 sec.

Glissandos fast, medium, and slow, diatonic and chromatic

Cross glissandos fast and medium

01 XYL_WO_Single-Hits	Range: F3–C7	Samples: 262	RAM: 16 MB	Level 1
Wood mallets: Single notes 3 velocity layers 2 Alternations				
02 XYL_WO_Roll	Range: F3–C7	Samples: 264	RAM: 16 MB	Level 1
Wood mallets: Rolls 3 velocity layers Release samples				
03 XYL_WO_Roll_dyn_0'5s	Range: F3–C7	Samples: 88	RAM: 5 MB	Level 2
Wood mallets: Rolls strong dynamics, 0.5 sec. 1 velocity layer AB switch: crescendo/diminuendo				
04 XYL_WO_Roll_dyn_1s	Range: F3–C7	Samples: 88	RAM: 5 MB	Level 2
Wood mallets: Rolls strong dynamics, 1 sec. 1 velocity layer AB switch: crescendo/diminuendo				
05 XYL_WO_Roll_dyn_3s	Range: F3–C7	Samples: 88	RAM: 5 MB	Level 2
Wood mallets: Rolls strong dynamics, 3 sec. 1 velocity layer AB switch: crescendo/diminuendo				
06 XYL_WO_Roll_chords	Range: F3–C7	Samples: 86	RAM: 5 MB	Level 2
Wood mallets: Rolls for chord or alternating tremolos 1 velocity layer Release samples				

07 XYL_WO_Glissandi_fa (me)**Range: C3–C7****Samples: 82****RAM: 5 MB****Level 2**

Wood mallets: Glissandos, fast/medium, up and down

Diatonic and chromatic

Cross glissandos, var. 1–2

2 velocity layers

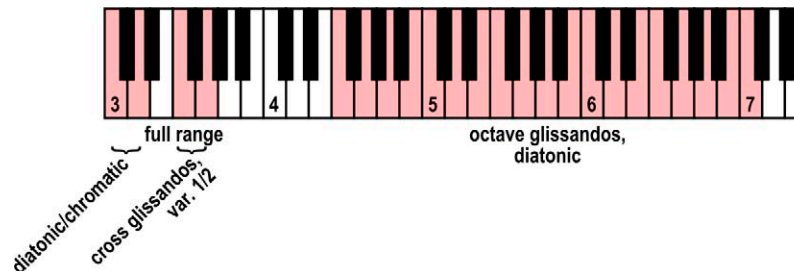
AB switch: up/down

Mapping:

C3–D3: full range, diatonic/chromatic, up and down

F3–G3: cross glissandos, var. 1–2

F4–C7: octaves, diatonic, up and down

**09 XYL_WO_Glissandi_sl****Range: F4–C7****Samples: 38****RAM: 2 MB****Level 2**

Wood mallets: Glissandos, slow, up and down

Diatonic

1 velocity layer

AB switch: up/down

Mapping:

F4–C7: octaves, diatonic, up and down

**04 XYLOPHONE/02 Soft Plastic Mallet****Level 1:** Single notes

Rolls

Level 2: Glissandos fast, medium, and slow, diatonic and chromatic

Cross glissandos fast and medium

01 XYL_sPL_Single-Hits**Range: F3–C7****Samples: 264****RAM: 16 MB****Level 1**

Soft plastic mallets: Single notes

3 velocity layers

2 Alternations

02 XYL_sPL_Roll**Range: F3–C7****Samples: 264****RAM: 16 MB****Level 1**

Soft plastic mallets: Rolls

3 velocity layers

Release samples

03 XYL_sPL_Glissandi_fa (me)**Range: C3–C7****Samples: 82****RAM: 5 MB****Level 2**

Soft plastic mallets: Glissandos, fast/medium, up and down

Diatonic and chromatic

Cross glissandos, var. 1–2

2 velocity layers

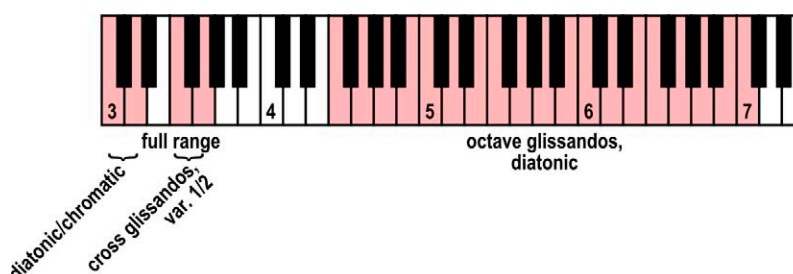
AB switch: up/down

Mapping:

C3–D3: full range, diatonic/chromatic, up and down

F3–G3: cross glissandos, var. 1–2

F4–C7: octaves, diatonic, up and down

**05 XYL_sPL_Glissandi_sl****Range: F4–C7****Samples: 38****RAM: 2 MB****Level 2**

Soft plastic mallets

Glissandos, slow, up and down

Diatonic

1 velocity layer

AB switch: up/down

Mapping:

F4–C7: octaves, diatonic, up and down

**04 XYLOPHONE/03 Medium Plastic Mallet****Level 2:** Single notes

Rolls

Glissandos fast, medium, and slow, diatonic and chromatic

Cross glissandos fast and medium

01 XYL_mPL_Single-Hits**Range: F3–C7****Samples: 264****RAM: 16 MB****Level 2**

Medium plastic mallets: Single notes

3 velocity layers

2 Alternations

02 XYL_mPL_Roll**Range: F3–C7****Samples: 262****RAM: 16 MB****Level 2**

Medium plastic mallets: Rolls

3 velocity layers

Release samples

03 XYL_mPL_Glissandi_fa**Range: C3–C7****Samples: 80****RAM: 5 MB****Level 2**

Medium plastic mallets: Glissandos, fast, up and down

Diatonic and chromatic

Cross glissandos, var. 1–3

2 velocity layers

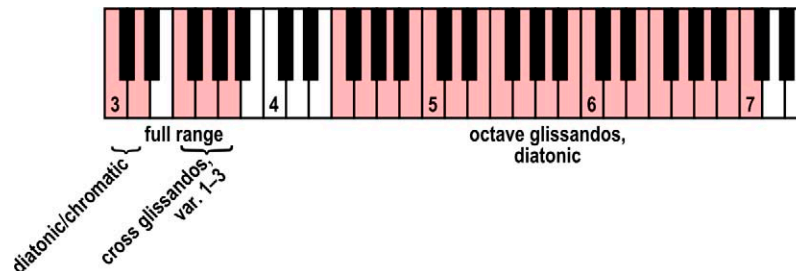
AB switch: up/down

Mapping:

C3–D3: full range, diatonic/chromatic, up and down

F3–A3: cross glissandos, var. 1–3

F4–C7: octaves, diatonic, up and down

**04 XYL_mPL_Glissandi_me****Range: C3–C7****Samples: 82****RAM: 5 MB****Level 2**

Medium plastic mallets: Glissandos, medium, up and down

Diatonic and chromatic

Cross glissandos, var. 1–2

2 velocity layers

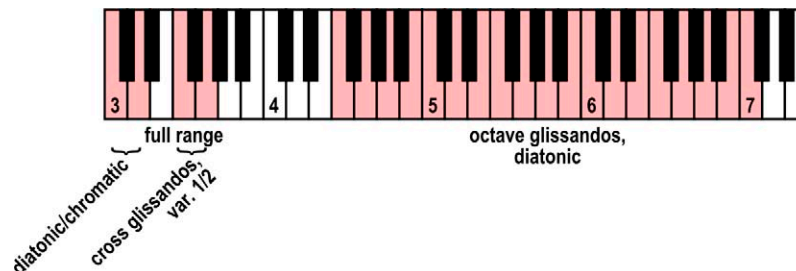
AB switch: up/down

Mapping:

C3–D3: full range, diatonic/chromatic, up and down

F3–G3: cross glissandos, var. 1–2

F4–C7: octaves, diatonic, up and down

**05 XYL_mPL_Glissandi_sl****Range: F4–C7****Samples: 38****RAM: 2 MB****Level 2**

Medium plastic mallets

Glissandos, slow, up and down

Diatonic

1 velocity layer

AB switch: up/down

Mapping:

F4–C7: octaves, diatonic, up and down



04 XYLOPHONE/04 Hard Plastic Mallet

Level 2: Single notes

Rolls

Glissandos fast, medium, and slow, diatonic and chromatic

Cross glissandos fast and medium

01 XYL_hPL_Single-Hits

Range: F3–C7

Samples: 228

RAM: 14 MB

Level 2

Hard plastic mallets: Single notes

3 velocity layers

2 Alternations

02 XYL_hPL_Roll

Range: F3–C7

Samples: 264

RAM: 16 MB

Level 2

Hard plastic mallets: Rolls

3 velocity layers

Release samples

03 XYL_hPL_Glissandi_fa

Range: C3–C7

Samples: 45

RAM: 2 MB

Level 2

Hard plastic mallets: Glissandos, fast, up and down

Diatonic and chromatic

Cross glissandos, var. 1–3

1 velocity layer

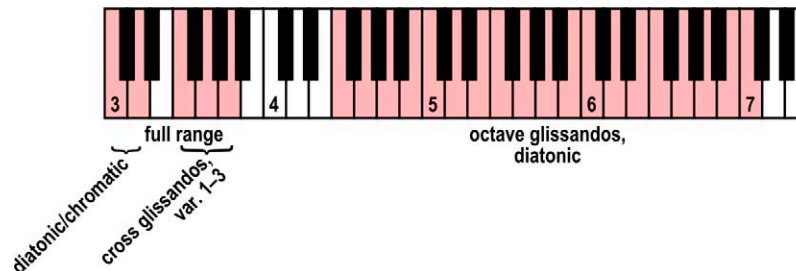
AB switch: up/down

Mapping:

C3–D3: full range, diatonic/chromatic, up and down

F3–A3: cross glissandos, var. 1–3

F4–C7: octaves, diatonic, up and down



04 XYL_hPL_Glissandi_me**Range: C3–C7****Samples: 82****RAM: 5 MB****Level 2**

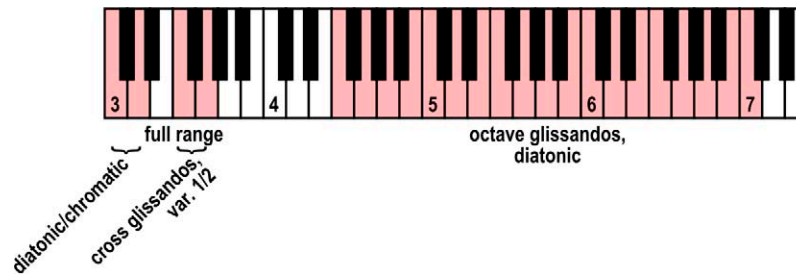
Hard plastic mallets: Glissandos, medium, up and down
 Diatonic and chromatic
 Cross glissandos, var. 1–2
 2 velocity layers
 AB switch: up/down

Mapping:

C3–D3: full range, diatonic/chromatic, up and down

F3–G3: cross glissandos, var. 1–2

F4–C7: octaves, diatonic, up and down

**05 XYL_hPL_Glissandi_sl****Range: F4–C7****Samples: 76****RAM: 4 MB****Level 2**

Hard plastic mallets
 Glissandos, slow, up and down
 Diatonic
 2 velocity layers
 AB switch: up/down

Mapping:

F4–C7: octaves, diatonic, up and down

**04 XYLOPHONE/05 Yarn Mallet****Level 2:** Single notes

Rolls

01 XYL_YA_Single-Hits**Range: F4–C7****Samples: 264****RAM: 16 MB****Level 2**

Yarn-wound mallets: Single notes
 3 velocity layers
 2 Alternations

02 XYL_YA_Roll**Range: F4–C7****Samples: 240****RAM: 15 MB****Level 2**

Yarn-wound mallets: Rolls
 3 velocity layers
 Release samples

04 XYLOPHONE/06 Cluster Mallet

Level 2: Cluster mallets

Single hits and tremolo

Diatonic, chromatic, and pentatonic

01 XYL_CLU_Single-Hits

Range: C2–A6

Samples: 32

RAM: 2 MB

Level 2

Cluster mallets

Clusters, diatonic, chromatic, and pentatonic

1 velocity layer

Mapping:

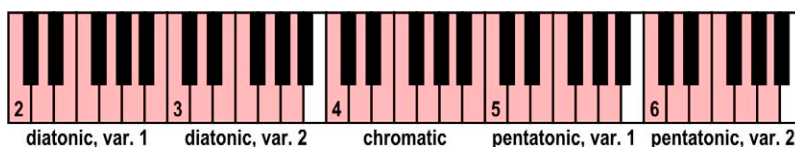
C2–B2: diatonic, var. 1

C3–A3: diatonic, var. 2

C4–B4: chromatic

C5–A5: pentatonic, var. 1

C6–A6: pentatonic, var. 2



02 XYL_CLU_Roll

Range: C2–G6

Samples: 54

RAM: 3 MB

Level 2

Cluster mallets

Cluster tremolo

Diatonic, chromatic, and pentatonic

1 velocity layer

Release samples

Mapping:

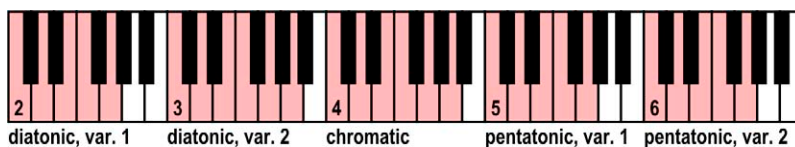
C2–G2: diatonic, var. 1

C3–A3: diatonic, var. 2

C4–A4: chromatic

C5–G5: pentatonic, var. 1

C6–G6: pentatonic, var. 2



05 VIBRAPHONE

05 VIBRAPHONE/01 Medium Mallet

Level 1: Single hits without, with slow and fast vibrato

Glissandos fast and slow, diatonic and chromatic, up and down

Level 2: Single notes, secco

Rolls normal; rolls dynamics, 2 and 4 sec.

Chord tremolos

01 VIB_MD_Single-Hits_speed-0	Range: D#3–G6	Samples: 222	RAM: 13 MB	Level 1
Medium mallets Single hits, without vibrato 3 velocity layers 2 Alternations				
02 VIB_MD_Single-Hits_speed-sl	Range: D#3–G6	Samples: 148	RAM: 9 MB	Level 1
Medium mallets Single hits, slow vibrato 2 velocity layers 2 Alternations				
03 VIB_MD_Single-Hits_speed-fa	Range: D#3–G6	Samples: 148	RAM: 9 MB	Level 1
Medium mallets Single hits, fast vibrato 2 velocity layers 2 Alternations				
04 VIB_MD_Single-Hits_secco	Range: D#3–G6	Samples: 148	RAM: 9 MB	Level 2
Medium mallets Single hits, secco 2 velocity layers 2 Alternations				
05 VIB_MD_Rolls	Range: D#3–G6	Samples: 221	RAM: 13 MB	Level 2
Medium mallets Rolls 3 velocity layers Release samples				
06 VIB_MD_Rolls_dyn_2s	Range: D#3–G6	Samples: 74	RAM: 4 MB	Level 2
Medium mallets Rolls, dynamics, 2 sec., without vibrato 1 velocity layer AB switch: crescendo/diminuendo				
07 VIB_MD_Rolls_dyn_4s	Range: D#3–G6	Samples: 74	RAM: 4 MB	Level 2
Medium mallets Rolls, dynamics, 4 sec., without vibrato 1 velocity layer AB switch: crescendo/diminuendo				

08 VIB_MD_Roll_chords

Range: D#3–G6

Samples: 148

RAM: 9 MB

Level 2

Medium mallets

Rolls for chord or alternating tremolos

2 velocity layers

Release samples

09 VIB_MD_Glissandi_fast (slow)

Range: C2–F7

Samples: 48

RAM: 3 MB

Level 1

Medium mallets

Glissandos, fast/slow, up and down

Diatonic and chromatic

Cross glissandos

1 velocity layer

AB switch: up/down

Mapping:

C, D – full range, diatonic/chromatic, up and down

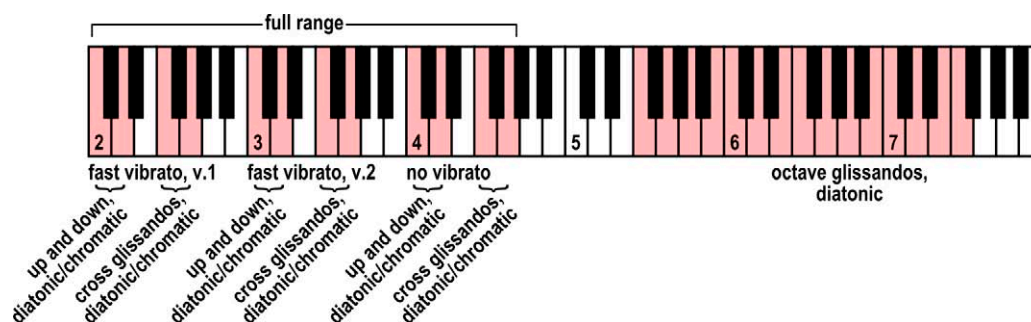
F, G – cross glissandos, full range, diatonic/chromatic

C2–G2: fast vibrato, var. 1

C3–G3: fast vibrato, var. 2

C4–G4: no vibrato

F5–F7: octaves, diatonic, up and down, no vibrato

**05 VIBRAPHONE/02 Soft Mallet****Level 1:** Single hits without, with slow and fast vibrato

Rolls

Level 2: Rolls dynamics, 2 and 4 sec.

Chord tremolos

01 VIB_SO_Single-Hits_speed-0

Range: D#3–G6

Samples: 147

RAM: 9 MB

Level 1

Soft mallets

Single hits, without vibrato

3 velocity layers

2 Alternations

02 VIB_SO_Single-Hits_speed-sl

Range: D#3–G6

Samples: 148

RAM: 9 MB

Level 1

Soft mallets

Single hits, slow vibrato

3 velocity layers

2 Alternations

03 VIB_SO_Single-Hits_speed-fa	Range: D#3–G6	Samples: 148	RAM: 9 MB	Level 1
Soft mallets Single hits, fast vibrato 3 velocity layers 2 Alternations				
04 VIB_SO_Rolls	Range: D#3–G6	Samples: 148	RAM: 9 MB	Level 2
Soft mallets Rolls 3 velocity layers Release samples				
05 VIB_SO_Rolls_dyn_2s	Range: D#3–G6	Samples: 74	RAM: 4 MB	Level 2
Soft mallets Rolls, dynamics, 2 sec., without vibrato 1 velocity layer AB switch: crescendo/diminuendo				
06 VIB_SO_Rolls_dyn_4s	Range: D#3–G6	Samples: 74	RAM: 4 MB	Level 2
Soft mallets Rolls, dynamics, 4 sec., without vibrato 1 velocity layer AB switch: crescendo/diminuendo				
07 VIB_SO_Roll_chords	Range: D#3–G6	Samples: 148	RAM: 9 MB	Level 2
Soft mallets Rolls for chord or alternating tremolos 2 velocity layers Release samples				
05 VIBRAPHONE/03 Hard Mallet				
Level 2: Single hits without, with slow and fast vibrato				
01 VIB_HA_Single-Hits_speed-0	Range: D#3–G6	Samples: 148	RAM: 9 MB	Level 2
Hard mallets Single hits, without vibrato 3 velocity layers 2 Alternations				
02 VIB_HA_Single-Hits_speed-sl	Range: D#3–G6	Samples: 148	RAM: 9 MB	Level 2
Hard mallets Single hits, slow vibrato 3 velocity layers 2 Alternations				
03 VIB_HA_Single-Hits_speed-fa	Range: D#3–G6	Samples: 148	RAM: 9 MB	Level 2
Hard mallets Single hits, fast vibrato 3 velocity layers 2 Alternations				

05 VIBRAPHONE/04 Bowed**Level 2:** Short and long notes without and with fast vibrato**01 VIB_Bow-short_speed-0****Range: D#3–G6****Samples: 37****RAM: 2 MB****Level 2**

Bowed

Short notes, without vibrato

1 velocity layer

2 Alternations

02 VIB_Bow-short_speed-fa**Range: D#3–G6****Samples: 37****RAM: 2 MB****Level 2**

Bowed

Short notes, fast vibrato

1 velocity layer

2 Alternations

03 VIB_Bow-long_speed-0**Range: D#3–G6****Samples: 37****RAM: 2 MB****Level 2**

Bowed

Long notes, without vibrato

1 velocity layer

04 VIB_Bow-long_speed-fa**Range: D#3–G6****Samples: 37****RAM: 2 MB****Level 2**

Bowed

Long notes, fast vibrato

1 velocity layer

06 MARIMBA**06 MARIMBA/01 Hard Mallet****Level 1:** Single hits, normal

Rolls

Glissandos, fast and slow, diatonic and pentatonic

Cross glissandos

Level 2: Single hits, secco

Rolls dynamics, 1, 2, and 4 sec.

Chord tremolos

01 MAR_HA_Single-Hits**Range: C2–C7****Samples: 366****RAM: 22 MB****Level 1**

Hard mallets

Single hits

3 velocity layers

2 Alternations

02 MAR_HA_Single-Hits_secco**Range: C2–C7****Samples: 122****RAM: 7 MB****Level 2**

Hard mallets

Single hits, secco

2 velocity layers

03 MAR_HA_Roll	Range: C2–C7	Samples: 244	RAM: 15 MB	Level 1
Hard mallets Rolls 2 velocity layers Release samples				
04 MAR_HA_Roll_dyn_1s	Range: C2–C7	Samples: 122	RAM: 7 MB	Level 2
Hard mallets Rolls, dynamics, 1 sec. 1 velocity layer AB switch: crescendo/diminuendo				
05 MAR_HA_Roll_dyn_2s	Range: C2–C7	Samples: 122	RAM: 7 MB	Level 2
Hard mallets Rolls, dynamics, 2 sec. 1 velocity layer AB switch: crescendo/diminuendo				
06 MAR_HA_Roll_dyn_4s	Range: C2–C7	Samples: 122	RAM: 7 MB	Level 2
Hard mallets Rolls, dynamics, 4 sec. 1 velocity layer AB switch: crescendo/diminuendo				
07 MAR_HA_Roll_chords	Range: C2–C7	Samples: 244	RAM: 15 MB	Level 2
Hard mallets Rolls for chord or alternating tremolos 2 velocity layers Release samples				

08 MAR_HA_Glissandi_fast (slow)**Range: C4–B6****Samples: 21****RAM: 1 MB****Level 1**

Hard mallets

Glissandos fast/slow, up and down

Diatonic and pentatonic

Cross glissandos

1 velocity layer

AB switch: up/down

Mapping:

C4–E4: diatonic, up and down, low/middle/high range

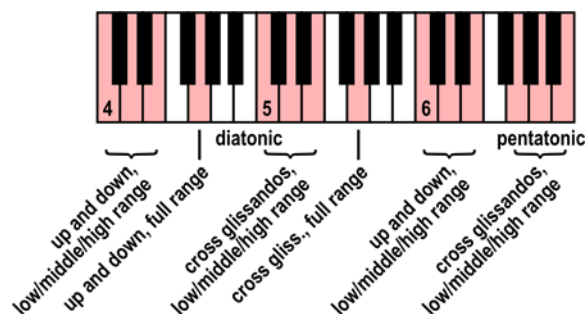
G5: diatonic, up and down, full range

C5–E5: cross glissandos, diatonic, low/middle/high range

G5: cross glissandos, diatonic, full range

C5–E5: pentatonic, up and down, low/middle/high range

G6–A6: cross glissandos, pentatonic, low/middle/high range

**06 MARIMBA/02 Soft Mallet****Level 1:** Single hits, normal

Rolls

Glissandos, fast and slow, diatonic and pentatonic

Cross glissandos

Level 2: Single hits, secco

Rolls dynamics, 1, 2, and 4 sec.

Chord tremolos

01 MAR_SO_Single-Hits**Range: C2–C7****Samples: 366****RAM: 22 MB****Level 1**

Soft mallets

Single hits

3 velocity layers

2 Alternations

02 MAR_SO_Single-Hits_secco**Range: C2–C7****Samples: 183****RAM: 11 MB****Level 1**

Soft mallets

Single hits, secco

3 velocity layers

03 MAR_SO_Roll**Range: C2–C7****Samples: 244****RAM: 15 MB****Level 2**

Soft mallets

Rolls

2 velocity layers

Release samples

04 MAR_SO_Roll_dyn_1s	Range: C2–C7	Samples: 122	RAM: 7 MB	Level 2
Soft mallets Rolls, dynamics, 1 sec. 1 velocity layer AB switch: crescendo/diminuendo				
05 MAR_SO_Roll_dyn_2s	Range: C2–C7	Samples: 122	RAM: 7 MB	Level 2
Soft mallets Rolls, dynamics, 2 sec. 1 velocity layer AB switch: crescendo/diminuendo				
06 MAR_SO_Roll_dyn_4s	Range: C2–C7	Samples: 122	RAM: 7 MB	Level 2
Soft mallets Rolls, dynamics, 4 sec. 1 velocity layer AB switch: crescendo/diminuendo				
07 MAR_SO_Roll_chords	Range: C2–C7	Samples: 244	RAM: 15 MB	Level 2
Soft mallets Rolls for chord or alternating tremolos 2 velocity layers Release samples				
08 MAR_SO_Glissandi_fast (slow)	Range: C4–B6	Samples: 21	RAM: 1 MB	Level 1
Soft mallets Glissandos fast/slow, up and down Diatonic and pentatonic Cross glissandos 1 velocity layer AB switch: up/down				

Mapping:

C4–E4: diatonic, up and down, low/middle/high range

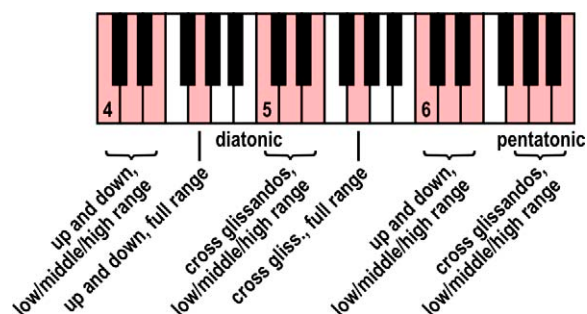
G5: diatonic, up and down, full range

C5–E5: cross glissandos, diatonic, low/middle/high range

G5: cross glissandos, diatonic, full range

C5–E5: pentatonic, up and down, low/middle/high range

G6–A6: cross glissandos, pentatonic, low/middle/high range



06 MARIMBA/03 Additional Mallets**Level 2:** Very soft, medium soft, and extra hard mallets

Single hits

Rolls

01 MAR_SO+ _low_Single-Hits	Range: C2–A4	Samples: 128	RAM: 8 MB	Level 2
Very soft mallets Lower range: Single hits 2 velocity layers 2 Alternations				
02 MAR_SO+ _low_Single-Hits_secco	Range: C2–A4	Samples: 68	RAM: 4 MB	Level 2
Very soft mallets Lower range: Single hits, secco 2 velocity layers				
03 MAR_SO+ _low_Roll	Range: C2–E4	Samples: 100	RAM: 6 MB	Level 2
Very soft mallets Lower range: Rolls 2 velocity layers Release samples				
04 MAR_SO-med _low_Single-Hits	Range: C2–C6	Samples: 182	RAM: 11 MB	Level 2
Medium soft mallets Lower range: Single hits 2 velocity layers 2 Alternations				
05 MAR_SO-med _low_Roll	Range: C2–D4	Samples: 100	RAM: 6 MB	Level 2
Medium soft mallets Lower range: Rolls 2 velocity layers Release samples				
06 MAR_SO-med _low_Roll_chords	Range: C2–D5	Samples: 148	RAM: 9 MB	Level 2
Medium soft mallets Rolls for chord or alternating tremolos 2 velocity layers Release samples				
07 MAR_HA-super _high_Single-Hits	Range: A#2–C7	Samples: 196	RAM: 12 MB	Level 2
Extra hard mallets Higher range: Single hits 2 velocity layers 2 Alternations				
08 MAR_HA-super _high_Roll	Range: A#2–C7	Samples: 196	RAM: 12 MB	Level 2
Extra hard mallets Higher range: Rolls 2 velocity layers Release samples				

06 MARIMBA/04 Specials

Level 2: Rubber mallets, superball, handle, fingers, fingernails, and bowed
Single notes

01 MAR_Rubber	Range: C2–C7	Samples: 183	RAM: 11 MB	Level 2
Rubber mallets Single notes 3 velocity layers				
02 MAR_Superball	Range: C2–D6	Samples: 98	RAM: 6 MB	Level 2
Superball Lower range: Single notes 2 velocity layers				
03 MAR_Handle	Range: C2–C7	Samples: 61	RAM: 3 MB	Level 2
Handle Single notes 1 velocity layer				
04 MAR_Finger	Range: C2–C7	Samples: 61	RAM: 3 MB	Level 2
Fingers Single notes 1 velocity layer				
05 MAR_Finger-nail	Range: C2–C7	Samples: 61	RAM: 3 MB	Level 2
Fingernails Single notes 1 velocity layer				
06 MAR_Bow	Range: C2–C7	Samples: 61	RAM: 3 MB	Level 2
Bowed Single notes 1 velocity layer				

07 WOODBLOCKS

Level 1: Wood mallets

Single hits, tremolo normal and dynamics

1–4 upbeats

Level 2: Rubber, normal and soft yarn-wound mallets

Single hits, tremolo normal and dynamics

1–4 upbeats

01 WBL_Wood (Rubber/Yarn/Yarn-soft)

Range: C2–A#6

Samples: 160

RAM: 10 MB

Level 1

01 Wood/02 Rubber/03 Yarn/04 Soft yarn mallets

Single notes

Tremolo normal and dynamics

1–4 upbeats

3 velocity layers

Release samples

AB switch: crescendo/diminuendo

Mapping:

C2–A#2 – Block 1

C3–A#3 – Block 2

C4–A#4 – Block 3

C5–A#5 – Block 4

C6–A#6 – Block 5

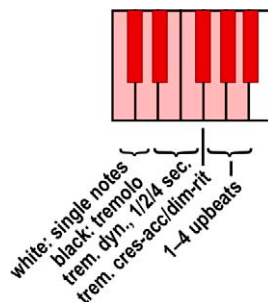
C, D: single notes

C#: tremolo, normal

D#–F: dynamics, 1, 2, and 4 sec.

F#: crescendo-accelerando and diminuendo-ritardando

G–A#: 1–4 upbeats



07 TBL_Wood_Roll_dyn-2s	Range: A#2–G4	Samples: 36	RAM: 2 MB	Level 2
Wood mallets Rolls, dynamics, 2 sec. 1 velocity layer AB switch: crescendo/diminuendo				
08 TBL_Wood_Roll_dyn-4s	Range: A#2–G4	Samples: 36	RAM: 2 MB	Level 2
Wood mallets Rolls, dynamics, 4 sec. 1 velocity layer AB switch: crescendo/diminuendo				
09 TBL_Wood_Roll_acc-rit	Range: A#2–G4	Samples: 36	RAM: 2 MB	Level 2
Wood mallets Rolls, accelerando and ritardando 1 velocity layer AB switch: accelerando/ritardando				
10 TBL_Wood_gliss	Range: C4–D4	Samples: 4	RAM: 1 MB	Level 2
Wood mallets Glissandos, slow and fast, up and down 1 velocity layer AB switch: up/down Mapping: C4: slow, up and down D4: fast, up and down				



08 TEMPLEBLOCKS/02 Yarn Mallet

Level 2: Single hits

1–3 upbeats

Rolls normal and dynamics, 1, 2 and 4 sec., accelerando and ritardando

Glissandos, slow and fast, up and down

01 TBL_Yarn_Single-Hits

Range: A#2–G6

Samples: 105

RAM: 6 MB

Level 2

Hard yarn-wound mallets

Single notes

3 velocity layers

2 Alternations

AB switch: alternation left/right

Mapping:

A#2–G4: left hand/(right hand)

A#4–G6: right hand



A: left/right hand
B: left hand

B: right hand

02 TBL_Yarn_UB_a1

Range: A#2–G4

Samples: 36

RAM: 2 MB

Level 2

Yarn mallets

1 upbeat

2 velocity layers

03 TBL_Yarn_UB_a2

Range: A#2–G4

Samples: 36

RAM: 2 MB

Level 2

Yarn mallets

2 upbeats

2 velocity layers

04 TBL_Yarn_UB_a3

Range: A#2–G4

Samples: 36

RAM: 2 MB

Level 2

Yarn mallets

3 upbeats

2 velocity layers

05 TBL_Yarn_Roll

Range: A#2–G4

Samples: 72

RAM: 4 MB

Level 2

Yarn mallets

Rolls

2 velocity layers

Release samples

06 TBL_Yarn_Roll_dyn-1s

Range: A#2–G4

Samples: 36

RAM: 2 MB

Level 2

Yarn mallets

Rolls, dynamics, 1 sec.

1 velocity layer

AB switch: crescendo/diminuendo

07 TBL_Yarn_Roll_dyn-2s

Range: A#2–G4

Samples: 36

RAM: 2 MB

Level 2

Yarn mallets

Rolls, dynamics, 2 sec.

1 velocity layer

AB switch: crescendo/diminuendo

08 TBL_Yarn_Roll_dyn-4s

Range: A#2–G4

Samples: 36

RAM: 2 MB

Level 2

Yarn mallets

Rolls, dynamics, 4 sec.

1 velocity layer

AB switch: crescendo/diminuendo

09 TBL_Yarn_Roll_acc-rit

Range: A#2–G4

Samples: 36

RAM: 2 MB

Level 2

Yarn mallets

Rolls, accelerando and ritardando

1 velocity layer

AB switch: accelerando/ritardando

10 TBL_Yarn_gliss

Range: C4–D4

Samples: 4

RAM: 1 MB

Level 2

Yarn mallets

Glissandos, slow and fast, up and down

1 velocity layer

AB switch: up/down

Mapping:

C4: slow, up and down

D4: fast, up and down

**08 TEMPLEBLOCKS/03 Additional Mallets****Level 2:** Soft yarn and rubber mallets

Single hits

01 TBL_Yarn-soft_Single-Hits

Range: A#2–G6

Samples: 108

RAM: 6 MB

Level 2

Soft yarn mallets

Single notes

3 velocity layers

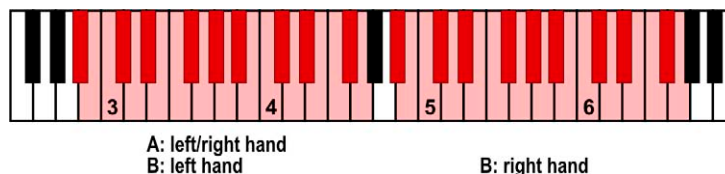
2 Alternations

AB switch: alternation left/right

Mapping:

A#2–G4: left hand/(right hand)

A#4–G6: right hand

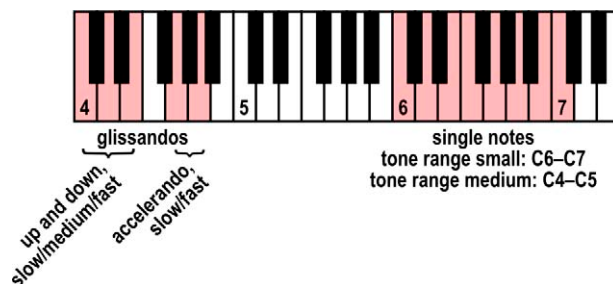


06 LI-s_Roll	Range: G5–D7	Samples: 64	RAM: 4 MB	Level 2
Rolls 2 velocity layers Release samples				
07 LI-s_rubbed	Range: G5–D7	Samples: 16	RAM: 1 MB	Level 2
Single notes: Rubbed, sustained 1 velocity layer				

10 STIR XYLOPOHONE

Level 2: Small, medium, and large stir xylophone
Glissandos, up and down, various speeds
Single notes

01 ST-XY_small (medium)	Range: C4–C7	Samples: 26	RAM: 1 MB	Level 2
01 Small/02 Medium Stir Xylophone Glissandos, up and down, various speeds Single notes (2 alternations) Single notes tone range: C6–C7 1 velocity layer 2 Alternations AB switch: up/down				
Mapping: C4–E4: glissandos, up and down, slow/medium/fast G4–A4: glissandos, accelerando, up and down, slow/fast C6–C7: single notes				



03 ST-XY_large**Range: C4–C7****Samples: 40****RAM: 2 MB****Level 2**

Large stir xylophone

Glissandos, up and down, various speeds

Single notes (2 alternations)

Single notes tone range: C2–C4

1 velocity layer

2 Alternations

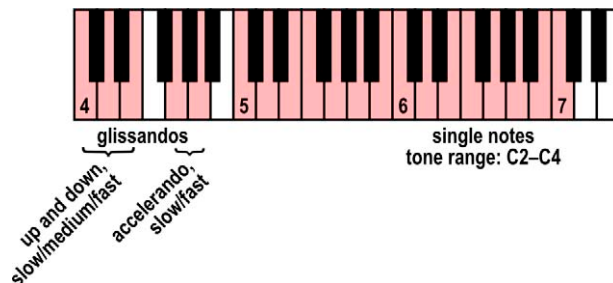
AB switch: up/down

Mapping:

C4–E4: glissandos, up and down, slow/medium/fast

G4–A4: glissandos, accelerando, up and down, slow/fast

C5–C7: single notes



Matrices

Matrix - LEVEL 1

L1 01 Celesta

Samples: 264 RAM: 16 MB [Level 1](#)

Single notes
Sustained, normal and soft

Matrix switches: Vertical: Modwheel, 2 zones

	H1
V1	sustained normal
V2	sustained soft

L1 02 Glockenspiel-A

Samples: 668 RAM: 41 MB [Level 1](#)

Metal and wood mallets
Single notes and rolls
Glissandos

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 2 zones

	C1	C#1	D1
metal mallets	single notes	rolls	glissandos
wood mallets	%	%	%

L1 03 Xylophone

Samples: 1458 RAM: 91 MB [Level 1](#)

Wood/soft plastic mallets
Single notes and rolls
Glissandos fast, medium, and slow

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
wood mallets	single notes	rolls	glissandos fast	glissandos medium	glissandos slow
soft plastic mallets	%	%	%	%	%

L1 04 Vibraphone

Samples: 961 RAM: 60 MB [Level 1](#)

Medium and soft mallets
Single notes
Without, with slow and with fast vibrato

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 2 zones

	C1	C#1	D1
medium mallets	no vibrato	slow vibrato	fast vibrato
soft mallets	%	%	%

L1 05 Marimbaphone**Samples: 1303 RAM: 81 MB****Level 1**

Hard and soft mallets
 Single notes and rolls
 Glissandos fast and slow

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
hard mallets	single notes	rolls	glissandos fast	glissandos slow
soft mallets	%	%	%	%

L1 06 Wood+Templeblocks**Samples: 268 RAM: 16 MB****Level 1**

Patches:
 01 WBL_Wood
 01 TBL_Wood_Single-hits

Matrix switches: Horizontal: Keyswitches, C1–C#1

	C1	C#1
V1	01 WBL_Wood	01 TBL_Wood_Singl e-hits

L1 07 Lithophone small**Samples: 96 RAM: 6 MB****Level 1**

Patch: 01 LI-s_Single-Hits

Matrix - LEVEL 2**01 Celesta all****Samples: 432 RAM: 27 MB****Level 2**

Sustained normal and soft
 Staccato
 Glissando

Matrix switches: Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
V1	sustained normal	sustained soft	staccato	glissando

02 Glockenspiel-A metal all**Samples: 498 RAM: 31 MB****Level 2**

Metal mallet
 Single notes normal and with vibrato
 Rolls normal and crescendo
 Chord tremolo
 Glissando

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
V1	single notes normal	rolls normal	chord tremolo	glissando
V2	single notes vibrato	rolls crescendo	chord tremolo	glissando

03 Glockenspiel-A wood all**Samples: 408 RAM: 25 MB Level 2**

Wood mallet

Single notes normal and with vibrato

Rolls

Matrix switches: Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 2 zones

	C1	C#1
V1	single notes normal	rolls
V2	single notes vibrato	rolls

04 Glockenspiel-A plastic all**Samples: 476 RAM: 29 MB Level 2**

Plastic mallet

Single notes normal and with vibrato

Rolls normal and crescendo

Glissando

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 2 zones

	C1	C#1	D1
V1	single notes normal	rolls normal	glissando
V2	single notes vibrato	rolls crescendo	glissando

05 Glockenspiel-A big.metal all**Samples: 260 RAM: 16 MB Level 2**

Big metal mallet

Single notes normal and with vibrato

Rolls normal and crescendo

Glissando

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 2 zones

	C1	C#1	D1
V1	single notes normal	rolls normal	glissando
V2	single notes vibrato	rolls crescendo	glissando

06 Glockenspiel-B all**Samples: 657 RAM: 41 MB Level 2**

Metal, wood, and plastic mallets

Single notes

Rolls

Glissandos, fast and slow

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1
metal mallets	single notes	rolls	glissandos fast	glissandos slow
wood mallets	%	%	% (metal)	% (metal)
plastic mallets	%	%	% (metal)	% (metal)

07 Xylophone wood all**Samples: 1078 RAM: 67 MB****Level 2**

Single notes

Rolls, chord tremolo, rolls dynamics 0.5, 1, and 3 sec.

Glissando fast, medium, and slow

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1
V1	single notes	rolls	rolls dyn. 0.5 sec.	glissandos fast
V2	single notes	chord tremolo	rolls dyn. 1 sec.	glissandos medium
V3	single notes	chord tremolo	rolls dyn. 3 sec.	glissandos slow

08 Xylophone addition mallets 1**Samples: 2151 RAM: 134 MB****Level 2**

Soft, medium, and hard plastic mallets

Single notes

Rolls

Glissando fast, medium, and slow

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1
soft mallets	single notes	rolls	glissandos fast	glissandos medium	glissandos slow
medium mallets	%	%	%	%	%
hard mallets	%	%	%	%	%

09 Xylophone addition mallets 2**Samples: 590 RAM: 36 MB****Level 2**

Yarn and cluster mallets

Single hits and rolls

Matrix switches: Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 2 zones

	C1	C#1
yarn mallets	single notes	rolls
cluster mallets	single clusters	cluster rolls

10 Vibraphone medium all**Samples: 1279 RAM: 79 MB****Level 2**

Medium mallets

Single notes, without, with slow and with fast vibrato

Single notes, secco

Rolls normal and dynamics

Chord tremolo

Glissando, fast and slow

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1
V1	single notes no vib.	single notes secco	rolls	chord tremolo	glissandos fast
V2	single notes slow vib.	single notes secco	rolls dyn. 2 sec.	chord tremolo	glissandos medium
V3	single notes fast vib.	single notes secco	rolls dyn. 4 sec.	chord tremolo	glissandos slow

11 Vibraphone soft all**Samples: 813 RAM: 50 MB Level 2**

Soft mallets

Single notes, without, with slow and with fast vibrato

Rolls normal and dynamics

Chord tremolo

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 3 zones

	C1	C#1	D1
V1	single notes no vib.	rolls	chord tremolo
V2	single notes slow vib.	rolls dyn. 2 sec.	chord tremolo
V3	single notes fast vib.	rolls dyn. 4 sec.	chord tremolo

12 Vibraphone hard all**Samples: 444 RAM: 27 MB Level 2**

Hard mallets

Single notes, without, with slow and with fast vibrato

Matrix switches: Vertical: Modwheel, 3 zones

	H1
V1	single notes no vib.
V2	single notes slow vib.
V3	single notes fast vib.

13 Vibraphone bow all**Samples: 148 RAM: 9 MB Level 2**

Bowed

Short and long notes

Without and with fast vibrato

Matrix switches: Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 2 zones

	C1	C#1
no vibrato	short notes	long notes
fast vibrato	%	%

14 Marimba hard all**Samples: 1262 RAM: 78 MB Level 2**

Hard mallets

Single notes normal and secco

Rolls normal and dynamics

Chord tremolo

Glissando fast and slow

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
V1	single notes	rolls	rolls dyn. 1 sec.	glissandos fast
V2	single notes secco	chord tremolo	rolls dyn. 2 sec.	glissandos slow

15 Marimba soft all**Samples: 1322 RAM: 82 MB****Level 2**

Soft mallets
 Single notes normal and secco
 Rolls normal and dynamics
 Chord tremolo
 Glissando fast and slow

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
V1	single notes	rolls	rolls dyn. 1 sec.	glissandos fast
V2	single notes secco	chord tremolo	rolls dyn. 2 sec.	glissandos slow

16 Marimba additional**Samples: 1118 RAM: 69 MB****Level 2**

Very soft, medium soft, and extra hard mallets
 Single notes
 Rolls
 Chord tremolo

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 3 zones

	C1	C#1	D1
very soft mallets	single notes	single notes, secco	rolls
medium soft mallets	single notes	rolls	chord tremolo
extra hard mallets	single notes	single notes	rolls

17 Marimba special**Samples: 525 RAM: 32 MB****Level 2**

Played with rubber mallets, superball, handle, fingers, fingernails, and bowed
 Various articulations

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
V1	rubber mallet	superball	handle	fingers	fingernails	bowed

18 Woodblocks all**Samples: 636 RAM: 39 MB****Level 2**

Wood, rubber, yarn, and soft yarn mallets
 Various articulations

Matrix switches: Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
V1	01 WBL_Wood	02 WBL_Rubber	03 WBL_Yarn	04 WBL_Yarn- soft

19 Templeblocks wood**Samples: 292 RAM: 18 MB****Level 2**

Wood mallets
 Single hits
 Rolls normal, accelerando/ritardando, and dynamics
 Glissando

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
V1	single hits	rolls	rolls dyn. 1 sec.	glissando
V2	single hits	rolls acc./rit.	rolls dyn. 2 sec.	glissando

20 Templeblocks yarn**Samples: 289 RAM: 18 MB Level 2**

Yarn mallets

Single hits

Rolls normal, accelerando/ritardando, and dynamics

Glissando

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
V1	single hits	rolls	rolls dyn. 1 sec.	glissando
V2	single hits	rolls acc./rit.	rolls dyn. 2 sec.	glissando

21 Templeblocks additional**Samples: 215 RAM: 13 MB Level 2**

Soft yarn and rubber mallets

Single hits

Matrix switches: Horizontal: Keyswitches, C1–C#1

	C1	C#1
single hits	soft yarn mallets	rubber mallets

22 Lithophone small all**Samples: 272 RAM: 17 MB Level 2**

Single notes

Rolls

Rubbed

1–3 upbeats

Matrix switches: Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 3 zones

	C1	C#1
V1	single notes	1 upbeat
V2	rolls	2 upbeats
V3	rubbed	3 upbeats

23 Stir Xylophone all**Samples: 92 RAM: 5 MB Level 2**

Small, medium, and large stir xylophone

Various articulations

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
V1	01 ST-XY_small	02 ST-XY_medium	03 ST-XY_large

Presets

Mallets VSL Preset Level 1

Samples: 5018 RAM: 313 MB [Level 1](#)

Matrices:

L1 01 Celesta
 L1 02 Glockenspiel-A,
 L1 03 Xylophone
 L1 04 Vibraphone
 L1 05 Marimbaphone
 L1 06 Wood+Templeblocks
 L1 07 Lithophone small

Keyswitches: F1–B1

Mallets VSL Preset Level 2

Samples: 8452 RAM: 528 MB [Level 2](#)

Matrices:

01 Celesta all
 02 Glockenspiel-A metal all
 04 Glockenspiel-A plastic all
 07 Xylophone wood all
 10 Vibraphone medium all
 11 Vibraphone soft all
 14 Marimba hard all
 15 Marimba soft all
 18 Woodblocks all
 19 Templeblocks wood,
 22 Lithophone small all
 23 Stir xylophone all

Keyswitches: F1–E2

85 Bells

Various types of bell and bell substitutes that have been used in the orchestra over the centuries.

Today mainly two instruments have become part of standard instrumentation in the modern opera and symphony orchestra: **tubular bells** and **plate bells**.

Their main role was to act as a substitute for church bells in the orchestra. Tubular bells were developed as an easily portable instrument for everyday use in the orchestra. Their sound was intended to be as close as possible to church bells, a target that they never reached, however. Nowadays their timbre is valued in its own right. They are used in the higher register, while the lower register is covered by the bell plates.

For special effects cow bells, altar-boy bells, sleigh bells and other bells are occasionally called for.

Patches

01 TUBULAR BELLS - A

Tubular Bells A: Philharmonic; Tubular Bells B: Deagen

Level 1: Medium, hard and soft mallets

Single notes

Level 2: Hard and soft mallets

Rolls normal and crescendo

01 Tubular-A_MD_Single-Hit

Range: C3–G#5

Samples: 87

RAM: 5 MB

Level 1

Medium mallets

Single notes

3 velocity layers

02 Tubular-A_HA_Single-Hit

Range: C3–G#5

Samples: 87

RAM: 5 MB

Level 1

Hard mallets

Single notes

3 velocity layers

03 Tubular-A_HA_Roll

Range: C#3–A5

Samples: 87

RAM: 5 MB

Level 2

Hard mallets

Rolls

1 velocity layer

Release samples

AB switch: release duration long/short

04 Tubular-A_HA_Roll_cre

Range: C#3–A5

Samples: 29

RAM: 1 MB

Level 2

Hard mallets

Rolls, crescendo

1 velocity layer

05 Tubular-A_SO_Single-Hit

Range: C3–G#5

Samples: 29

RAM: 1 MB

Level 1

Soft mallets

Single notes

1 velocity layer

06 Tubular-A_SO_Roll	Range: C#3–A5	Samples: 87	RAM: 5 MB	Level 2
Soft mallets Rolls 1 velocity layer Release samples AB switch: release duration long/short				
07 Tubular-A_SO_Roll_cre	Range: C#3–A5	Samples: 29	RAM: 1 MB	Level 2
Soft mallets Rolls, crescendo 1 velocity layer				
02 TUBULAR BELLS - B				
Level 1: Medium, hard and soft mallets Single notes				
Level 2: Rolls, medium, hard and soft mallets, brushes Glissandos, slow and fast Clusters				
01 Tubular-B_MD_Single-Hit	Range: E3–G5	Samples: 75	RAM: 4 MB	Level 1
Medium mallets Single notes 3 velocity layers				
02 Tubular-B_MD_Roll	Range: E3–G5	Samples: 75	RAM: 4 MB	Level 2
Medium mallets Rolls 1 velocity layer Release samples AB switch: release duration long/short				
03 Tubular-B_HA_Single-Hit	Range: E3–G5	Samples: 75	RAM: 4 MB	Level 1
Hard mallets Single notes 3 velocity layers				
04 Tubular-B_HA_Roll	Range: E3–G5	Samples: 75	RAM: 4 MB	Level 2
Hard mallets Rolls 1 velocity layer Release samples AB switch: release duration long/short				
05 Tubular-B_SO_Single-Hit	Range: E3–G5	Samples: 75	RAM: 4 MB	Level 1
Soft mallets Single notes 3 velocity layers				

06 Tubular-B_SO_Roll

Range: E3–G5

Samples: 75

RAM: 4 MB

Level 2

Soft mallets

Rolls

1 velocity layer

Release samples

AB switch: release duration long/short

07 Tubular-B_Brush_Roll

Range: E3–G5

Samples: 75

RAM: 4 MB

Level 2

Brushes

Rolls

1 velocity layer

Release samples

AB switch: release duration long/short

08 Tubular-B_FX

Range: C4–F4

Samples: 6

RAM: 1 MB

Level 2

Effects

Glissandos, slow and fast

Clusters

2 velocity layers

AB switch: up/down

Mapping:

C4–D4: glissandos, slow and fast, up and down

F4: clusters

**03 PLATE BELLS**

Level 1: Single notes

01 Plate Bells

Range: A#2–D5

Samples: 75

RAM: 4 MB

Level 1

Single notes

3 velocity layers

04 HAND BELLS

Level 2: Metal mallet, triangle beater, bowed

Single notes

01 Hand-Bells_Metal

Range: D4–F6

Samples: 74

RAM: 4 MB

Level 2

Metal mallet

Single notes

3 velocity layers

02 Hand-Bells_Triangle	Range: D4–F6	Samples: 74	RAM: 4 MB	Level 2
Triangle beater Single notes 3 velocity layers				
03 Hand-Bells_Bow	Range: D4–F6	Samples: 25	RAM: 1 MB	Level 2
Bowed Single notes 1 velocity layer				
05 CENCERROS				
Level 1: Soft felt, soft and medium yarn mallet, wood mallet Single notes				
Level 2: Hard felt mallet, metal mallet; single notes Rubbing stick, slow and fast rubs				
01 Cencerros_Felt-soft	Range: D3–D5	Samples: 60	RAM: 3 MB	Level 1
Soft felt mallet Single notes 3 velocity layers				
02 Cencerros_Felt-hard	Range: D3–D5	Samples: 57	RAM: 3 MB	Level 2
Hard felt mallet Single notes 3 velocity layers				
03 Cencerros_Yarn-soft	Range: D3–D5	Samples: 62	RAM: 3 MB	Level 1
Soft yarn mallet Single notes 3 velocity layers				
04 Cencerros_Yarn-medium	Range: D3–D6	Samples: 96	RAM: 6 MB	Level 1
Medium yarn mallet Single notes 3 velocity layers				
05 Cencerros_Yarn-hard	Range: D3–D7	Samples: 137	RAM: 8 MB	Level 2
Hard yarn mallet Single notes 3 velocity layers				
06 Cencerros_Wood	Range: D3–D7	Samples: 138	RAM: 8 MB	Level 1
Wood mallet Single notes 3 velocity layers				
07 Cencerros_Metal	Range: D3–D7	Samples: 138	RAM: 8 MB	Level 2
Metal mallet Single notes 3 velocity layers				

08 Cencerros_Bow	Range: D3–D7	Samples: 46	RAM: 2 MB	Level 2
Bowed Single notes 1 velocity layer				
09 Cencerros_Rub-stick_sl	Range: D3–D7	Samples: 46	RAM: 2 MB	Level 2
Rubbing stick Single notes, slow rub 1 velocity layer				
10 Cencerros_Rub-stick_fa	Range: D3–D7	Samples: 46	RAM: 2 MB	Level 2
Rubbing stick Single notes, fast rub 1 velocity layer				

06 COWBELLS

Level 2: Cowbells 1 and 2

Wool and wood mallets, triangle beater, bowed, rubbing stick

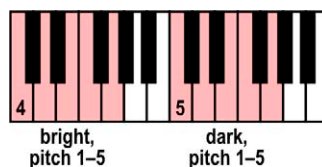
Single notes, variations, rubs

01 Cowbells-1_Wool (Wood/Triangle)	Range: C4–G5	Samples: 10	RAM: 1 MB	Level 2
01 Wool mallet/02 Wood mallet/03 Triangle beater Single notes, bright and dark 1 velocity layer				

Mapping:

C4–G4: bright, pitch 1–5

C5–G5: dark, pitch 1–5

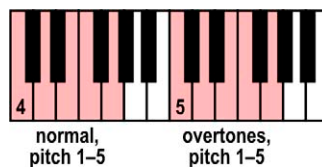


04 Cowbells-1_Bow	Range: C4–G5	Samples: 10	RAM: 1 MB	Level 2
Bowed Single notes, normal and overtones 1 velocity layer				

Mapping:

C4–G4: normal, pitch 1–5

C5–G5: overtones, pitch 1–5



05 Cowbells-1_Rub-stick**Range: C4–G5****Samples: 10****RAM: 1 MB****Level 2**

Rubbing stick

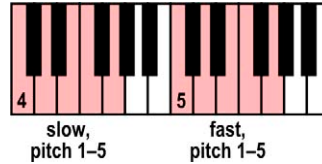
Single notes, slow and fast rubs

1 velocity layer

Mapping:

C4–G4: slow, pitch 1–5

C5–G5: fast, pitch 1–5

**06 Cowbells-2_Wool (Wood/Triangle)****Range: C4–G5****Samples: 20****RAM: 1 MB****Level 2**

06 Wool mallet/07 Wood mallet/08 Triangle beater

Single notes, variation A and B

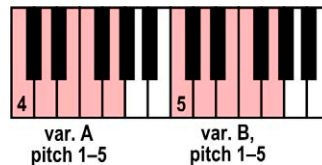
1 velocity layer

2 Alternations

Mapping:

C4–G4: var. A, pitch 1–5

C5–G5: var. B, pitch 1–5

**09 Cowbells-2_Rub-stick****Range: C4–G5****Samples: 20****RAM: 1 MB****Level 2**

Rubbing stick

Single notes, slow and fast rubs

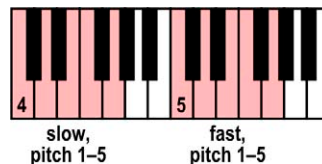
1 velocity layer

2 Alternations

Mapping:

C4–G4: slow rubs, pitch 1–5

C5–G5: fast rubs, pitch 1–5



07 CHURCH BELLS

Level 2: Wood and metal mallets

Single notes

01 Church-Bell_Wood

Range: E4–E5

Samples: 2

RAM: 1 MB

Level 2

Wood mallet

Single notes

1 velocity layer

02 Church-Bell_Metal

Range: E4–E5

Samples: 2

RAM: 1 MB

Level 2

Metal mallet

Single notes

1 velocity layer

08 BURMA BELLS

Level 2: Yarn, wood, metal mallets

Single notes

01 Burma.Bell

Range: C3–D6

Samples: 12

RAM: 1 MB

Level 2

2 Burma Bells

Yarn, wood, metal mallets

Single notes

1 velocity layer

Mapping:

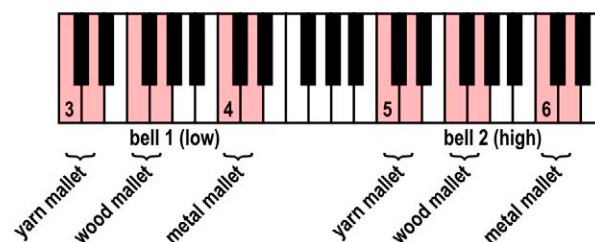
C3–D4 – Burma Bell 1

C5–D6 – Burma Bell 2

C–D: yarn-wound mallet

F–G: wood mallet

C'–D': metal mallet



09 JINGLE BELLS

Level 2: Single notes

Tremolo 1 and 4 sec.

Performance repetitions, slow and medium

01 Jingle-Bell

Range: C3–B5

Samples: 63

RAM: 3 MB

Level 2

3 Jingle Bells

Single notes

Tremolo, 1 and 4 sec. (with release samples)

Performance repetitions slow and medium

1 velocity layer

Release samples

Mapping:

C3–B3 – Jingle Bell 1

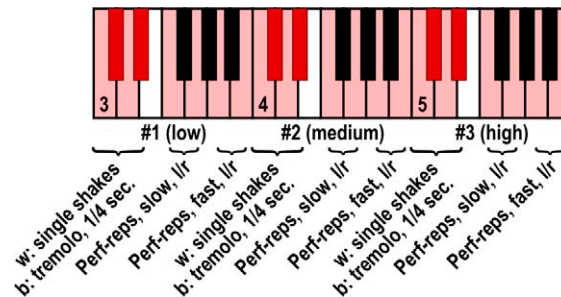
C4–B4 – Jingle Bell 2

C5–B5 – Jingle Bell 3

C, D: single notes; C#, D#: tremolo, 1 and 4 sec.

F–G: performance repetitions, 60 BPM

A–B: performance repetitions, 90 BPM



10 BELL TREE

Level 2: Metal mallets and triangle beaters

Strokes and glissandos, up and down

01 Belltree-Metal

Range: C4–A5

Samples: 11

RAM: 1 MB

Level 2

Metal mallets

Single strokes and glissandos, up and down

1 velocity layer

Mapping:

C4–D4: up, slow, mallet 1/2

E4: up, fast, mallet 1

G4–A4: glissando, up, mallet 1/2

C5–D5: down, slow, mallet 1/2

E5–F5: down, fast, mallet 1/2

G5–A5: glissando, down, mallet 1/2



02 Belltree-Tri

Range: C4–A5

Samples: 12

RAM: 1 MB

Level 2

Triangle beaters

Single strokes and glissandos, up and down

1 velocity layer

Mapping:

C4–D4: up, slow, beater 1/2

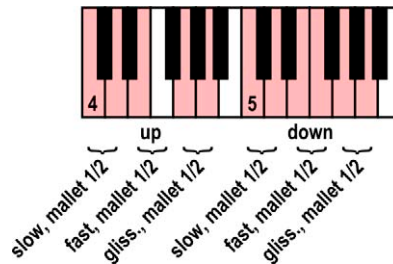
E4–F4: up, fast, beater 1/2

G4–A4: glissando, up, beater 1/2

C5–D5: down, slow, beater 1/2

E5–F5: down, fast, beater 1/2

G5–A5: glissando, down, beater 1/2

**11 BELLS misc****Level 2:** Ship's bell, altar-boy bells, finger bells

Single notes

01 Bells-Misc

Samples: 14

RAM: 1 MB

Level 2

Ship's bell, altar-boy bells, finger bells

Single notes

1 velocity layer

Mapping:

C2–F2: ship's bell, var. 1–4

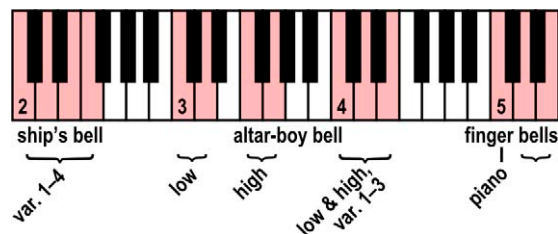
C3–D3: low altar-boy bell

F3–G3: high altar-boy bell

C4–E4: low and high altar-boy bell, var. 1–3

C5: finger bells, piano

D5–E5: finger bells, forte, var. 1–2



Matrices

Matrix - LEVEL 1

L1 01 Tubular bells-A

Samples: 203 RAM: 12 MB [Level 1](#)

Soft, medium, and hard mallets
Single notes

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
V1	soft mallets	medium mallets	hard mallets

L1 02 Tubular bells-B

Samples: 225 RAM: 14 MB [Level 1](#)

Soft, medium, and hard mallets
Single notes

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
V1	soft mallets	medium mallets	hard mallets

L1 03 Plate bells

Samples: 75 RAM: 4 MB [Level 1](#)

Patch: 01 Plate Bells

L1 04 Cow bells

Samples: 397 RAM: 24 MB [Level 1](#)

Soft felt, soft and hard yarn, and wood mallets
Single notes

Matrix switches: Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
V1	soft felt mallets	soft yarn mallets	hard yarn mallets	wood mallets

Matrix - LEVEL 2

O1 Tubular bells-A

Samples: 435 RAM: 27 MB [Level 2](#)

Soft, hard, and medium mallets
Single notes
Rolls normal and crescendo

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 3 zones

	C1 – soft mallets	C#1 – hard mallets	D1 – medium mallets
V1	single notes	single notes	single notes
V2	rolls	rolls	%
V3	rolls crescendo	rolls crescendo	%

02 Tubular bells-B**Samples: 531 RAM: 33 MB Level 2**

Soft, medium, and hard mallets, brushes
 Single notes
 Rolls
 Effects

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1 – soft mallets	C#1 – medium mallets	D1 – hard mallets	D#1
V1	single notes	single notes	single notes	08 Tubular-B_FX
V2	rolls	rolls	rolls	brush rolls

03 Plate bells**Samples: 75 RAM: 4 MB Level 2**

Patch: 01 Plate Bells

04 Hand bells**Samples: 173 RAM: 10 MB Level 2**

Metal mallets, triangle beater, and bowed
 Single notes

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
V1	metal mallets	triangle beater	bowed

05 Cow bells**Samples: 730 RAM: 45 MB Level 2**

Soft and hard felt and yarn mallets, wood and metal mallets, bowed, and rubbing stick
 Single notes

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
V1	soft felt mallets	soft yarn mallets	wood mallets	bowed	rubbing stick slow
V2	hard felt mallets	hard yarn mallets	metal mallets	bowed	rubbing stick fast

06 Cencerros**Samples: 130 RAM: 8 MB Level 2**

Cencerros 1 and 2
 Wool and wood mallets, triangle beater, bowed, and rubbing stick
 Single notes

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
Cencerro 1	wool mallets	wood mallets	triangle beater	bowed	rubbing stick
Cencerro 2	wool mallets	wood mallets	triangle beater	bowed (Cencerro 1)	rubbing stick

07 Church bell**Samples: 4 RAM: 1 MB Level 2**

Wood and metal mallets
 Single notes

Matrix switches: Horizontal: Keyswitches, C1–C#1

	C1	C#1
V1	wood mallets	metal mallets

08 Additional bells**Samples: 112 RAM: 7 MB****Level 2**

Burma bell, jingle bell, bell tree, miscellaneous bells
 Various articulations

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
V1	Burma bell	jingle bell	bell tree, metal mallet	bell tree, triangle beater	01 Bells-Misc

Presets**Bells VSL Preset Level 1****Samples: 900 RAM: 56 MB****Level 1****Matrices:**

L1 01 Tubular bells-A
 L1 02 Tubular bells-B
 L1 03 Plate bells
 L1 04 Cow bells

Keyswitches: F1–G#1**Bells VSL Preset Level 2****Samples: 2190 RAM: 136 MB****Level 2****Matrices:**

01 Tubular bells-A
 02 Tubular bells-B,
 03 Plate bells
 04 Hand bells
 05 Cow bells
 06 Cencerros
 07 Church bell
 08 Additional bells

Keyswitches: F1–C2

86 Percussion

Patches

01 TRIANGLE

Level 1: Triangle A

Single notes, performance repetitions, 1–3 upbeats, tremolo normal and dynamics

Level 2: Triangle B, C, D

Single notes, performance repetitions, 1–4 upbeats, tremolo normal and dynamics

Triangle A and B, performance repetitions dynamics

01 Tri-A

Range: C4–A7

Samples: 128

RAM: 8 MB

Level 1

Single notes, open and damped (4 alternations)

Performance repetitions

1–3 upbeats

Tremolo normal (with release samples) and dynamics

Velocity mapping: Single hits, 8 layers: 0–15 ppp, 16–35 pp, 36–55 p, 56–70 mp, 71–88 mf, 89–108 f, 109–118 ff, 119–127 fff

Repetitions, upbeats, and normal tremolo, 4 layers

Release samples

AB switch: crescendo/diminuendo

Mapping:

C4–D#4: hit from the side, open/damped (damped on black keys)

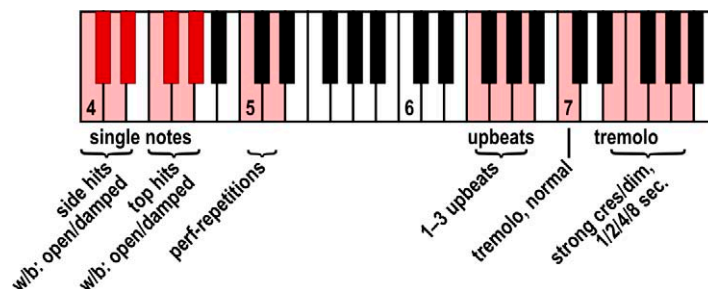
F4–G#4: hit from above, open/damped

C5, D5: performance repetitions (strokes alternating on lower and higher key)

F6–A6: 1–3 upbeats

C7: tremolo, normal

E7–A7: tremolo, strong crescendo and diminuendo, 1/2/4/8 sec.



02 Tri-A_perf-rep_dyn9

Range: C4–D4

Samples: 18

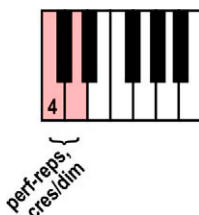
RAM: 1 MB

Level 2

Performance repetitions
Dynamics, 9 repetitions
1 velocity layer

Mapping:

C4: crescendo; D4: diminuendo

**03 Tri-B**

Range: C4–A7

Samples: 128

RAM: 8 MB

Level 2

Single notes, open and damped (4 alternations)
Performance repetitions
1–3 upbeats
Tremolo normal and dynamics
Velocity mapping: Single hits, 8 layers: 0–15 ppp, 16–35 pp, 36–55 p, 56–70 mp, 71–88 mf, 89–108 f, 109–118 ff, 119–127 fff
Repetitions, upbeats, and normal tremolo, 4 layers
Release samples
AB switch: crescendo/diminuendo

Mapping:

C4–D#4: hit from the side, open/damped (damped on black keys)

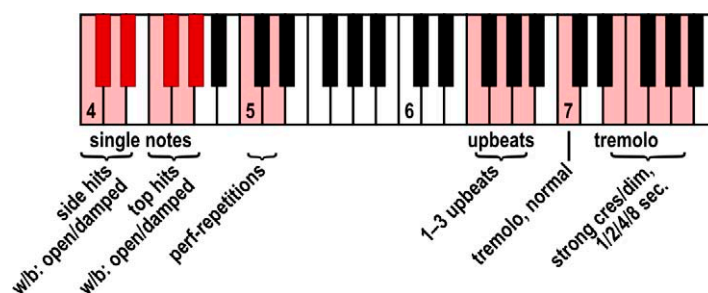
F4–G#4: hit from above, open/damped

C5, D5: performance repetitions (strokes alternating on lower and higher key)

F6–A6: 1–3 upbeats

C7: tremolo, normal

E7–A7: tremolo, strong crescendo and diminuendo, 1/2/4/8 sec.

**04 Tri-B_perf-rep_dyn9**

Range: C4–D4

Samples: 18

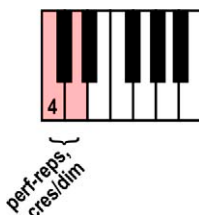
RAM: 1 MB

Level 2

Performance repetitions
Dynamics, 9 repetitions
1 velocity layer

Mapping:

C4: crescendo; D4: diminuendo



05 Tri-C**Range: C2–A#7 Samples: 157 RAM: 9 MB****Level 2**

Various beaters
 Single notes, open and damped
 Performance repetitions
 1–4 upbeats
 Tremolo normal and dynamics
 Velocity mapping: Single hits and repetitions, 4 layers
 Upbeats, 2 layers
 Normal tremolo, 3 layers
 Release samples
 AB switch: crescendo/diminuendo

Mapping:

Wood beater:

C2–D#2: hit from the side, open/damped (damped on black keys)

F2–G2: with vibrato, var. 1/2

Plastic beater:

C3–D#3: hit from the side, open/damped (damped on black keys)

F3–G3: with vibrato, var. 1/2

Thin metal beater:

C4–D#4: hit from the side, open/damped (damped on black keys)

E4: muted fast

F4–G4: with vibrato, var. 1/2

A4–B4: hit from above, var. 1/2

Thick metal beater:

C5–D#5: hit from the side, open/damped (damped on black keys)

F5–G5: with vibrato, var. 1/2

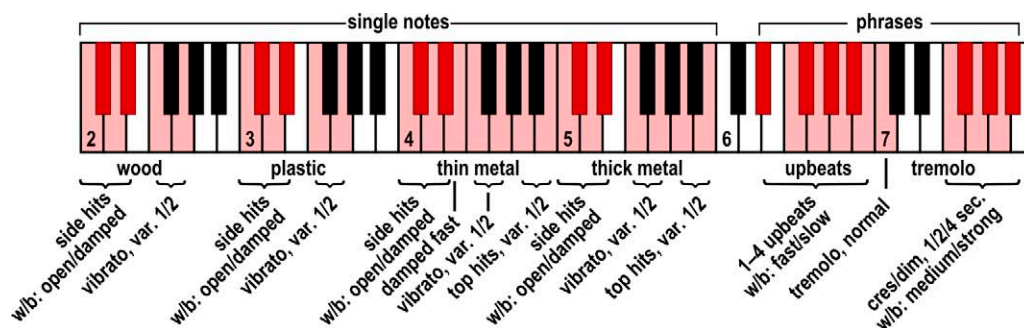
A5–B5: hit from above, var. 1/2

Phrases:

D#6–B6: 1–4 upbeats, slow and fast (slow upbeats on black keys)

C7: tremolo, normal

F7–A#7: tremolo, medium and strong crescendo and diminuendo, 1/2/4 sec. (strong dynamics on black keys)



06 Tri-D**Range: C2–A#7****Samples: 139****RAM: 8 MB****Level 2**

Various beaters

Single notes, open and damped

Performance repetitions

1–3 upbeats

Tremolo normal and dynamics

Velocity mapping: Single hits, repetitions, and normal tremolo, 3 layers

Upbeats, 2 layers

Release samples

AB switch: crescendo/diminuendo

Mapping:

C2–B2 – wood beater

C3–B3 – plastic beater

C4–B4 – thin metal beater

C5–B5 – thick metal beater

C–D#: hit from the side, open/damped (damped on black keys)

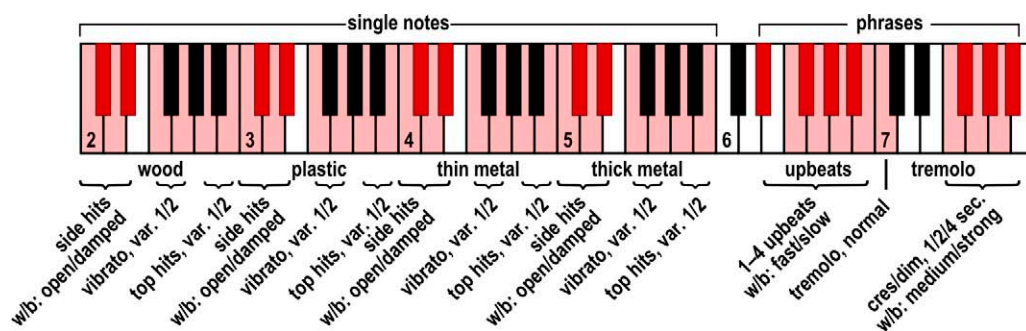
F–G: with vibrato, var. 1/2

A–B: hit from above, var. 1/2

D#6–B6: 1–4 upbeats, slow and fast (slow upbeats on black keys)

C7: tremolo, normal

F7–A#7: tremolo, medium and strong crescendo and diminuendo, 1/2/4 sec. (strong dynamics on black keys)

**02 CROTALES****Level 1:** Metal mallet

Single notes

Level 2: Triangle beater, bowed

Single notes

The crotales are mapped an octave lower than they sound

01 Crotales_Metal**Range: A#4–F#7****Samples: 60****RAM: 3 MB****Level 1**

Metal mallet

Single notes

2 velocity layers

02 Crotales_Tri**Range: A#4–F#7****Samples: 60****RAM: 3 MB****Level 2**

Triangle beater

Single notes

2 velocity layers

03 Crotales_Bow

Range: A#4–F#7 Samples: 30

RAM: 1 MB

Level 2

Bowed
Single notes
1 velocity layer

03 JAP SINGING BOWLS

Level 2: Wood and rubber mallets, single notes
Single notes, secco (damped)

01 J-Bowls_Wood

Range: B4–D6

Samples: 13

RAM: 1 MB

Level 2

Wood mallet
Single notes
1 velocity layer

02 J-Bowls_Rubber

Range: B4–D6

Samples: 13

RAM: 1 MB

Level 2

Rubber mallet
Single notes
1 velocity layer

02 J-Bowls_secco

Range: B4–D6

Samples: 13

RAM: 1 MB

Level 2

Single notes, secco (damped)
1 velocity layer

04 THUNDERSHEET**Level 1:** Thundersheet A

Various techniques

Level 2: Thundersheets B, C, D, E

Various techniques

01 Thunder-Sheet_A

Range: C2–E5

Samples: 21

RAM: 1 MB

Level 1

Various techniques
Single hits, tremolo, rubs, bowed, and shaken
1 velocity layer
Release samples

Mapping:

C2: tremolo

E2–A2: rubbed with the hand, var. 1–4

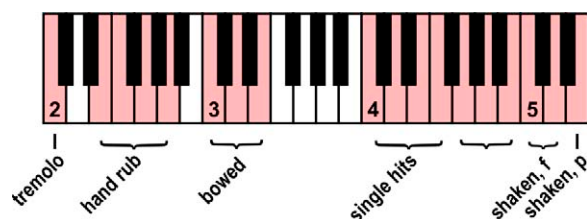
C3–E3: bowed, var. 1–3

C4–F4: single hits, var. 1–4

G4–B4: metal chain, var. 1–3

C5–D5: shaken, forte

E5: shaken, piano



02 Thunder-Sheet_B

Range: C2–E5

Samples: 21

RAM: 1 MB

Level 2

Various techniques

Single hits, tremolo, rubs, bowed, and shaken

1 velocity layer

Release samples

Mapping:

C2–D2: tremolo, var. 1–2

E2–G2: rubbed with the hand, var. 1–3

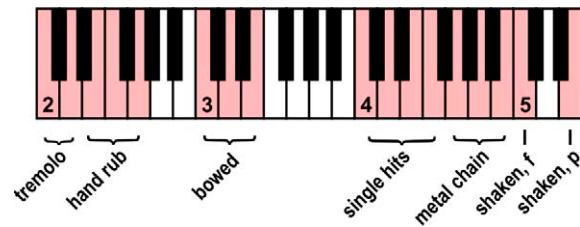
C3–E3: bowed, var. 1–3

C4–F4: single hits, var. 1–4

G4–B4: metal chain, var. 1–3

C5: shaken, forte

E5: shaken, piano

**03 Thunder-Sheet_C**

Range: C2–E5

Samples: 20

RAM: 1 MB

Level 2

Various techniques

Single hits, tremolo, rubs, bowed, and shaken

1 velocity layer

Release samples

Mapping:

C2: tremolo

E2–G2: rubbed with the hand, var. 1–3

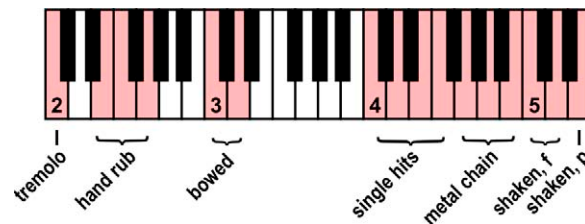
C3–D3: bowed, var. 1–2

C4–F4: single hits, var. 1–4

G4–B4: metal chain, var. 1–3

C5–D5: shaken, forte

E5: shaken, piano



04 Thunder-Sheet_D

Range: C2–B4

Samples: 19

RAM: 1 MB

Level 2

Various techniques

Single hits, tremolo, rubs, and bowed

1 velocity layer

Release samples

Mapping:

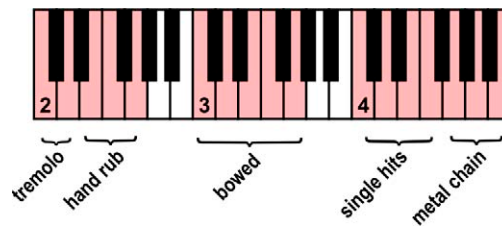
C2–D2: tremolo, var. 1–2

E2–G2: rubbed with the hand, var. 1–3

C3–G3: bowed, var. 1–4

C4–F4: single hits, var. 1–4

G4–B4: metal chain, var. 1–3

**05 Thunder-Sheet_E**

Range: C4–D5

Samples: 9

RAM: 1 MB

Level 2

Thundersheet with studs

Single hits, multi-hit, and shaken

1 velocity layer

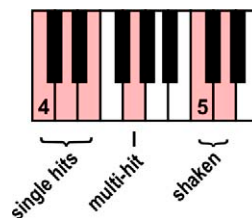
Release samples

Mapping:

C4–E4: single hits, var. 1–3

G4: multi-hit

C5–D5: shaken, var. 1–2



05 STEEL

Level 1: Railway rails

Single hits, tremolo normal and crescendo, 1–3 upbeats

Level 2: Brake disks, single hits

Springs, single hits, glissandos slow and fast

01 Rails

Range: C1–A#7

Samples: 147

RAM: 9 MB

Level 1

Railway rails 1–7

Single hits (2 alternations)

Tremolo normal and crescendo

1–3 upbeats

Velocity mapping: Single hits, 3 layers

All others, 1 layer

Release samples

2 Alternations

Mapping:

C1–A#1 – rail 1

C2–A#2 – rail 2

C3–A#3 – rail 3

C4–A#4 – rail 4

C5–A#5 – rail 5

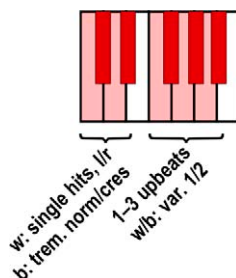
C6–A#6 – rail 6

C7–A#7 – rail 7

C, D: single hits, left/right (2 alternations)

C#, D#: tremolo normal/crescendo

F–A#: 1–3 upbeats, var. 1/2 (2nd variants on black keys)



02 Brakes

Range: C3–G6

Samples: 16

RAM: 1 MB

Level 2

Set of 8 brake disks

Single hits, variations 1 and 2

1 velocity layer

Mapping:

C3–D3: Brake disk 1

F3–G3: Brake disk 2

C4–D4: Brake disk 3

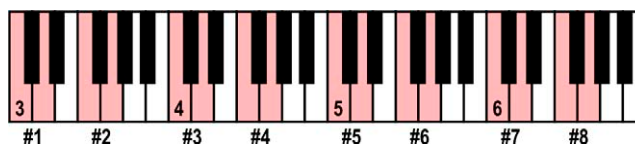
F4–G4: Brake disk 4

C5–D5: Brake disk 5

F5–G5: Brake disk 6

C6–D6: Brake disk 7

F6–G6: Brake disk 8



03 Springs

Range: C3–G5

Samples: 16

RAM: 1 MB

Level 2

2 springs
 Single hits
 Glissandos slow and fast
 2 velocity layers

Mapping:

C3–D3: single strokes, spring 1 (p–f)

F3–G3: single strokes, spring 2 (p–f)

C4–D4: slow glissandos, spring 1

F4–G4: slow glissandos, spring 2

C5–D5: fast glissandos, spring 1

F5–G5: fast glissandos, spring 2

**06 CASTANETS**

Level 1: Single strokes

1–4 upbeats

Tremolo 1 and 8 sec.

Performance repetitions

01 Castanets

Range: C4–D6

Samples: 28

RAM: 1 MB

Level 1

Single strokes (2 alternations)

1–4 upbeats

Tremolo, 1 and 8 sec.

Performance repetitions, variations 1 and 2

1 velocity layer

Release samples

2 Alternations

Mapping:

C4–D4: single strokes, left/right

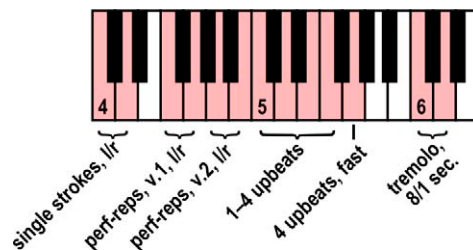
Performance repetitions, 80 BPM (8 reps., strokes alternating on lower and higher keys)

F4–G4: var. 1; A4–B4: var. 2

C5–F5: 1–4 upbeats

G5: 4 upbeats, fast

C6–D6: tremolo 8/1 sec.



07 HONKS

Level 2: Car horns, single notes open and muted

Bicycle horns, single notes low and high, changing notes, open and muted

01 Car-Honks

Range: A#3–E7

Samples: 60

RAM: 3 MB

Level 2

Car horns

Single notes, open and muted

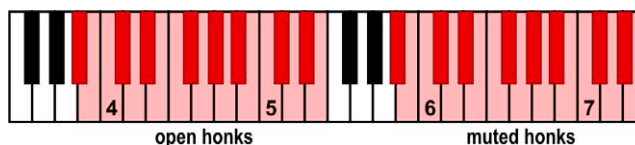
1 velocity layer

2 Alternations

Mapping:

A#3–E5: open honks

A#5–E7: muted honks



02 Bike-Honks

Range: C4–E5

Samples: 10

RAM: 1 MB

Level 2

Bicycle horns

Single notes, low, high, and changing note

Open and muted

1 velocity layer

2 Alternations

Mapping:

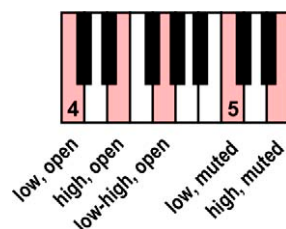
C4: low honk, open

E4: high honk, open

G4: low-high honk, open

C5: low honk, muted

E5: high honk, muted



08 CHIMES

Level 2: Glass, metal, and bamboo chimes

Single strokes, slow and fast, double strokes, tinkling, damped strokes

01 Glass-Chimes

Range: C2–F5

Samples: 14

RAM: 1 MB

Level 2

Single strokes, slow and fast

Double strokes

Up and down

1 velocity layer

Mapping:

C2–F3 – variation 1

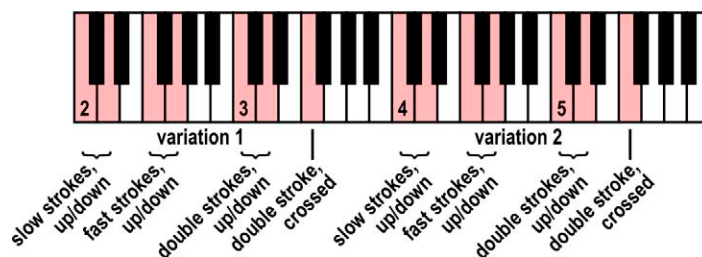
C4–F5 – variation 2

C–D: slow strokes, up/down

F–G: fast strokes, up/down

C'–D': double strokes, up/down

F': double crossed stroke



02 Metal-Chimes

Range: C4–G6

Samples: 10

RAM: 1 MB

Level 2

Single strokes, slow and fast, up and down

Low and high tinkling

Damped strokes

1 velocity layer

Mapping:

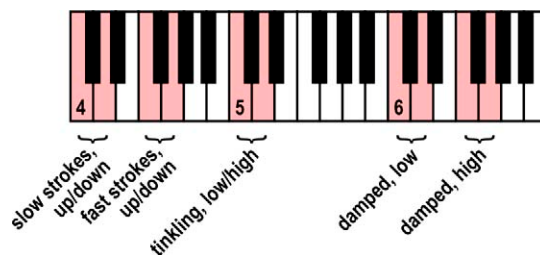
C4–D4: slow strokes, up/down

F4–G4: fast strokes, up/down

C5–D5: tinkling, low/high

C6–D6: damped strokes, low

F6–G6: damped strokes, high



03 Bamboo-Chimes

Range: C2–G6

Samples: 16

RAM: 1 MB

Level 2

Small and large chimes

Single strokes

Tinkling

Damped strokes

1 velocity layer

Mapping:

Small chimes:

C2–D2: slow strokes, up and down

F2–G2: fast strokes, up and down

Large and small chimes:

C3–D3: combination strokes

Large chimes:

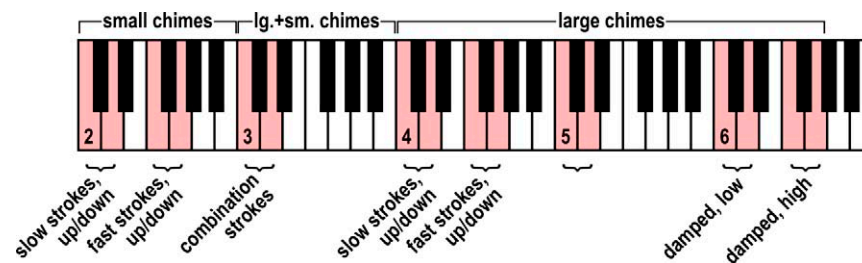
C4–D4: slow strokes, up and down

F4–G4: fast strokes, up and down

C5–D5: tinkling, low and high

C6–D6: damped hits, low

F6–G6: damped hits, high

**09 ANKLUNG**

Level 2: Single notes

Short, medium, and long

01 Anklung_short

Range: F3–D6

Samples: 30

RAM: 1 MB

Level 2

Single notes, short

1 velocity layer

02 Anklung_medium

Range: F3–D6

Samples: 30

RAM: 1 MB

Level 2

Single notes, medium

1 velocity layer

03 Anklung_long

Range: F3–D6

Samples: 30

RAM: 1 MB

Level 2

Single notes, long

1 velocity layer

10 WATERPHONE

Level 1: Single notes, bowed
straight and modulated

Level 2: Pizzicato
Repetitions
3-note arpeggios
Effects

01 WP_basic	Range: C3–G5	Samples: 11	RAM: 1 MB	Level 1
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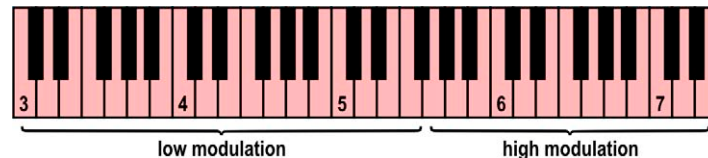
Single notes
Bowed, straight
1 velocity layer

02 WP_basic_modulation	Range: C3–E7	Samples: 20	RAM: 1 MB	Level 1
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Single notes
Bowed, modulated
The modulation of the tone is effected by tipping the instrument or moving it in circles.
1 velocity layer

Mapping:

C3–F5: Low modulations
G5–E7: High modulations



03 WP_pizz	Range: E3–C6	Samples: 11	RAM: 1 MB	Level 2
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Single notes
Pizzicato
1 velocity layer

04 WP_repetition	Range: E3–C6	Samples: 33	RAM: 2 MB	Level 2
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Repetitions, bowed. Each tone is repeated 8 times; due to the quick action of the bow, the water starts to move in the body and modulates the tone, which can be heard especially well in the decay phase of the samples.
1 velocity layer
Release samples
AB switch: release duration long/short

05 WP_arpeggio	Range: E3–A5	Samples: 9	RAM: 1 MB	Level 2
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Arpeggios, bowed. These arpeggios each consist of three notes. The tones sound together after the strokes because of the long decay time, which creates a "singing" effect.
1 velocity layer

06 WP_FX**Range: G1–A#7****Samples: 31****RAM: 1 MB****Level 2**

This Patch contains various effects that can be created with the waterphone, ranging from pizzicato tremolos to multivoice bowing with repetitions. Most of these effects have two variations, each mapped to two keys to allow for a little transposition. Some of the samples are quite long, so – hold the key!

1 velocity layer

Mapping:

G1–A#1: pizzicato, tremolo

C2–D#2: pizzicato, short glissando

F2–G#2: glissando, slow

C3–D#3: spherical sounds, bowed

G3–A#3: cluster glissando

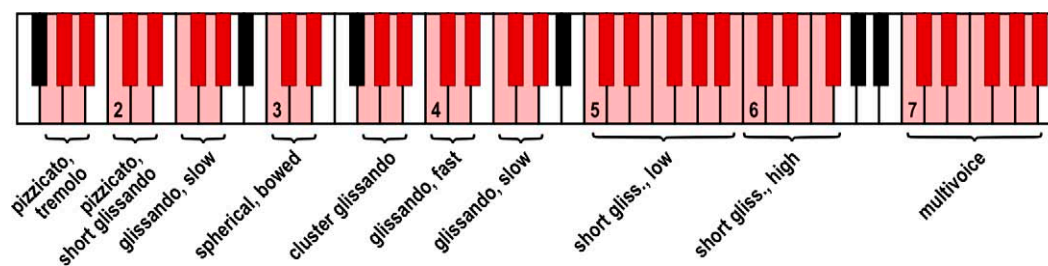
C4–D#4: glissando, fast

F4–G#4: glissando, slow (same as above)

C5–B5: short glissando, low (7 variations)

C6–F#6: short glissando, high (4 variations)

C7–A#7: multivoice (6 variations)



11 SHAKER

Level 2: Bamboo, chrome, and kiwi-shaped shakers

Single shakes

1–2 upbeats

Tremolo normal and dynamics, accelerando and ritardando

Performance repetitions

01 Shaker_Bamboo (Chrome)

Range: C4–A#7

Samples: 22

RAM: 1 MB

Level 2

01 Bamboo/02 Chrome Shaker

Single shakes

1–2 upbeats

Performance repetitions

Tremolo normal and dynamics, accelerando and ritardando (AB switch acc./rit.)

2 velocity layers

Release samples

AB switch: crescendo/diminuendo

Mapping:

C4, D4: single shakes, var. 1/2

C#4, D#4: 1–2 upbeats

Performance repetitions, 88 BPM (8 reps., strokes alternating on lower and higher key)

F4–G4: pattern 1

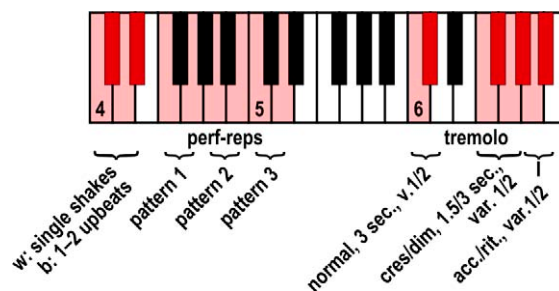
A4–B4: pattern 2

C5–D5: pattern 3

C6–C#6: tremolo, normal, 3 sec., var. 1/2

F6–G#6: tremolo dynamics, 1.5 and 3 sec., var. 1/2 (2nd variants on black keys)

A6–A#6: tremolo, accelerando and ritardando, var. 1/2



03 Shaker_Kiwi**Range: C4–A#7****Samples: 34****RAM: 2 MB****Level 2**

Single shakes

1–2 upbeats

Performance repetitions

Tremolo normal, accelerando and ritardando

1 velocity layer

AB switch: accelerando/ritardando

Mapping:

C4, D4: single shakes, var.1/2

C#4, D#4: 1–2 upbeats

Performance repetitions, 88 BPM (8 reps., strokes alternating on lower and higher key)

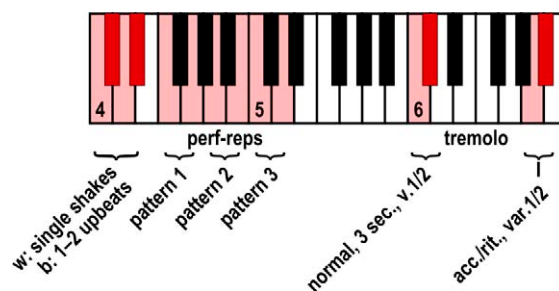
F4–G4: pattern 1

A4–B4: pattern 2

C5–D5: pattern 3

C6–C#6: tremolo, normal, 3 sec., var. 1/2

A6–A#6: tremolo, accelerando and ritardando, var. 1/2



12 CAXIXI

Level 2: Single strokes

Upbeats, slow and fast

Performance repetitions, slow and fast

Caxixi

Range: C2–B7

Samples: 104

RAM: 6 MB

Level 2

Single strokes

Slow and fast upbeats

Performance repetitions, slow and fast

1 velocity layer

Mapping:

Low caxixi:

C2: single stroke; C#2, D#2: slow/fast upbeat

Performance repetitions, p/f (8 reps., strokes alternating on lower and higher key)

F2–B2: 80 BPM, F3–B3: 120 BPM

High caxixi:

C4: single stroke; C#4: upbeat

Performance repetitions, p/f (8 reps., strokes alternating on lower and higher key)

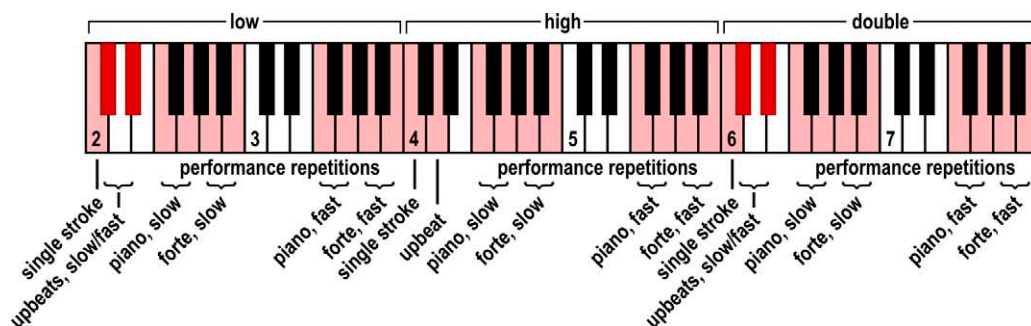
F4–B4: 80 BPM, F5–B5: 120 BPM

Double caxixi:

C6: single stroke; C#6, D#6: slow/fast upbeat

Performance repetitions, p/f (8 reps., strokes alternating on lower and higher key)

F6–B6: 80 BPM, F7–B7: 120 BPM



13 GUIRO

Level 2: Wood and gourd guiros

Single strokes, short, medium, long, and accelerando

Open and muted attack

Performance repetitions

01 Guiro_Wood (Gourd)

Range: C3–G#6

Samples: 108

RAM: 6 MB

Level 2

01 Wood/02 Gourd Guiro

Single strokes: Short, medium, long, and accelerating

Up and down, open and muted attack

Performance repetitions, 4 patterns (pattern 1+2: 12 repetitions; 3+4: 8 repetitions)

1 velocity layer

2 Alternations

Mapping:

C3–D#3 – short strokes, up/down, open and muted (muted on black keys)

F3–G#3 – medium strokes, up/down, open and muted (muted on black keys)

C4–D4 – long strokes, up/down, open

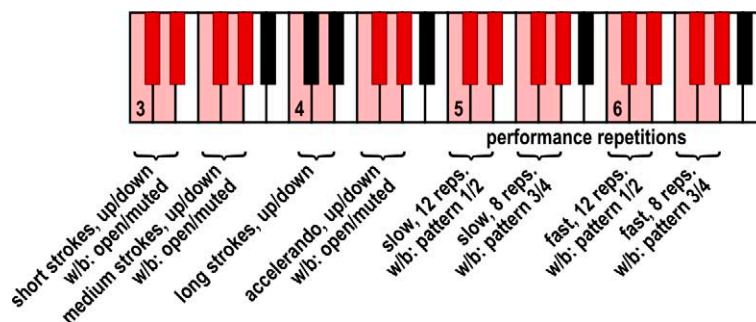
F4–D#4 – accelerando, up/down, open and muted (muted on black keys)

Performance repetitions (alternating on two keys):

C5–G#5 – slow (67 BPM)

C6–G#6 – medium (84 BPM)

C–D: pattern 1; C#–D#: pattern 2; F–G: pattern 3; F#–G#: pattern 4



14 CLAVES

Level 2: Fiber and wood claves, low and high

Single strokes

1–3 upbeats

01 Claves

Range: C3–A6

Samples: 20

RAM: 1 MB

Level 2

Fiber and wood claves, low and high

Single strokes

1–3 upbeats

1 velocity layer

Mapping:

C3–A3 – fiber claves, low

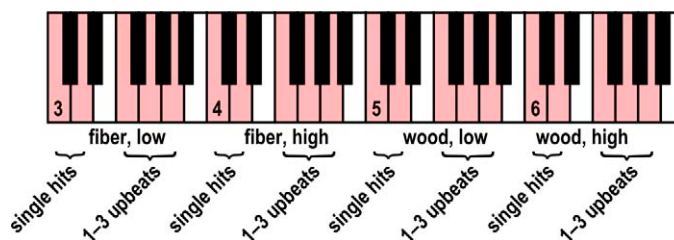
C4–A4 – fiber claves, high

C5–A5 – wood claves, low

C6–A6 – wood claves, high

C–D: single strokes

F–A: 1–3 upbeats



15 LOG DRUM

Level 1: Hard mallets, single hits (AB switching left/right hand variant)

Soft mallets, single hits and rolls

Level 2: Hard and wood mallets

Single hits and rolls

01 Log-Drum_Hard (Medium/Soft/Wood)

Range: F#3–G#6

Samples: 24

RAM: 1 MB

Level 1

01 Hard/02 Medium/03 Soft/04 Wood mallets

Single hits

Rolls

Attention: Hard and soft mallets are Standard, medium and wood mallets Extended content.

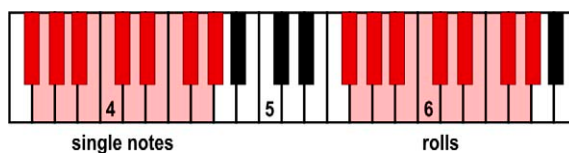
3 velocity layers

2 Alternations

Mapping:

F#3–G#4: single notes

F#5–G#6: rolls



16 BOOBAMS

16 BOOBAMS/01 Stick

Level 2: Single hits

1–4 upbeats

Rebounds, fast and slow

Rolls, var. 1 and 2

Rim hits

01 Boo_Stick_Single-Hits

Range: A#2–D6

Samples: 222

RAM: 13 MB

Level 2

Wood sticks

Single hits

3 velocity layers

2 Alternations

02 Boo_Stick_UB-a1

Range: A#2–D6

Samples: 72

RAM: 4 MB

Level 2

Wood sticks

1 upbeat

2 velocity layers

03 Boo_Stick_UB-a2

Range: A#2–D6

Samples: 144

RAM: 9 MB

Level 2

Wood sticks

2 upbeats, classical and open

2 velocity layers

AB switch: closed/open

04 Boo_Stick_UB-a3

Range: A#2–D6

Samples: 144

RAM: 9 MB

Level 2

Wood sticks

3 upbeats, classical and open

2 velocity layers

AB switch: closed/open

05 Boo_Stick_UB-a4

Range: A#2–D6

Samples: 144

RAM: 9 MB

Level 2

Wood sticks

4 upbeats, classical and open

2 velocity layers

AB switch: closed/open

06 Boo_Stick_Rebounds

Range: A#2–D6

Samples: 144

RAM: 9 MB

Level 2

Wood sticks

Rebounds, fast and slow

2 velocity layers

AB switch: speed fast/slow

07 Boo_Stick_Roll

Range: A#2–D6

Samples: 222

RAM: 13 MB

Level 2

Wood sticks

Rolls, variations 1 and 2

2 velocity layers

Release samples

AB switch: variation 1/2

08 Boo_Stick_Rim	Range: A#2–D6	Samples: 37	RAM: 2 MB	Level 2
Wood sticks Rim hits 1 velocity layer				
16 BOOBAMS/02 Yarn Mallet	Range: A#2–D6			
Level 2: Single hits 1–4 upbeats Rebounds, fast and slow Rolls, var. 1 and 2				
01 Boo_Yarn_Single-Hits		Samples: 222	RAM: 13 MB	Level 2
Yarn mallets Single hits 3 velocity layers 2 Alternations				
02 Boo_Yarn_UB-a1		Samples: 72	RAM: 4 MB	Level 2
Yarn mallets 1 upbeat 2 velocity layers				
03 Boo_Yarn_UB-a2		Samples: 72	RAM: 4 MB	Level 2
Yarn mallets 2 upbeats 2 velocity layers				
04 Boo_Yarn_UB-a3		Samples: 72	RAM: 4 MB	Level 2
Yarn mallets 3 upbeats 2 velocity layers				
05 Boo_Yarn_UB-a4		Samples: 72	RAM: 4 MB	Level 2
Yarn mallets 4 upbeats 2 velocity layers				
06 Boo_Yarn_Rebounds	Range: C3–B5	Samples: 144	RAM: 9 MB	Level 2
Yarn mallets Rebounds, fast and slow 2 velocity layers AB switch: speed fast/slow				
07 Boo_Yarn_Roll		Samples: 148	RAM: 9 MB	Level 2
Yarn mallets Rolls 2 velocity layers Release samples				

17 JINGLE RING

Level 2: Jingle rings A, B, C

Single strokes

Performance repetitions

Tremolo normal and dynamics

01 Jingle-Ring_A (B/C)

Range: C4–F7

Samples: 84

RAM: 5 MB

Level 2

Jingle Rings A/B/C

Single strokes

Rolls

Performance repetitions, pattern 1 (8 repetitions) and 2 (16 repetitions)

Tremolo normal and dynamics

1 velocity layer

AB switch: crescendo/diminuendo

Mapping:

C4–D#4: single strokes, normal/without attack (w/o attack on black keys)

F4–G4: rolls, var. 1/2

Performance repetitions, pattern 1 (8 reps., strokes alternating on lower and higher key):

C5–D5: 80 BPM; F5–G5: 100 BPM; A5–B5: 120 BPM

Performance repetitions, pattern 2 (16 reps., strokes alternating on lower and higher key):

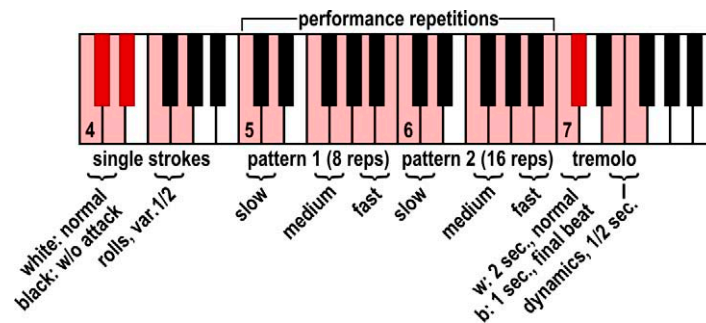
C6–D6: 80 BPM; F6–G6: 100 BPM; A6–B6: 120 BPM

Tremolo:

C7: normal, 2 sec.

C#7: 1 sec., with final beat

E7–F7: dynamics, 1 and 2 sec.



50 MISC PERCUSSION

50 MISC PERCUSSION/01 Windmachine

Level 1: Sound variations 1–7

01 Windmachine

Range: C4–B4

Samples: 7

RAM: 1 MB

Level 1

7 sound variations

1 velocity layer

50 MISC PERCUSSION/02 Rainmaker

Level 2: Rainmakers 1–3

Slow, fast, shaken

01 Rainmaker

Range: C3–B6

Samples: 15

RAM: 1 MB

Level 2

Slow, fast, and shaking sounds from three rainmakers. Rainmaker 3 also has 2 patterns at different speeds.

1 velocity layer

Mapping:

Rainmaker 1:

C3–E3: slow, fast, shaken

Rainmaker 2:

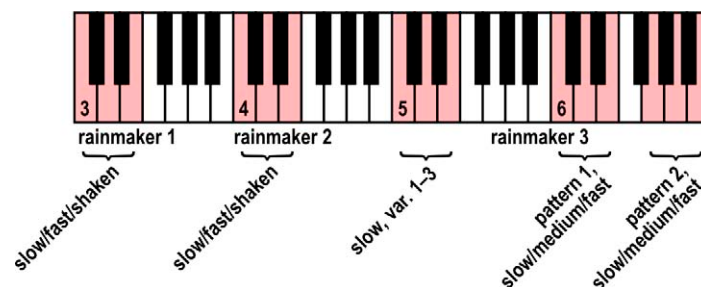
C4–E4: slow, fast, shaken

Rainmaker 3

C5–E5: slow, var. 1–3

C6–E6: pattern 1, BPM 90, 104, 134

G6–B6: pattern 2, BPM 86, 96, 126



50 MISC PERCUSSION/03 Ocean-Drums

Level 2: Ocean drum A and B
 Short, long, and motion sounds
 Accents
 Full samples and excerpts

01 Ocean_drum-A

Range: C4–C8

Samples: 26

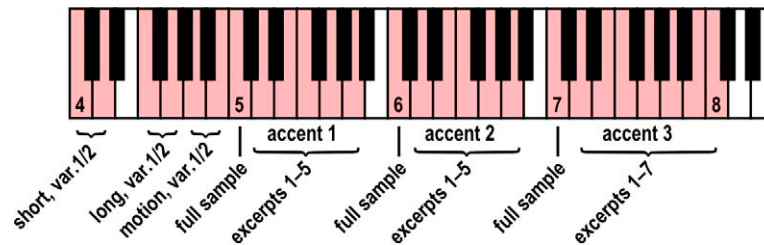
RAM: 1 MB

Level 2

Short and long sounds
 Motion sounds
 Accents, 3 sets with full samples and excerpts
 1 velocity layer

Mapping:

C4–D4: short sounds
 F4–G4: long sounds
 A4–B4: motion sounds
 Accent 1:
 C5: full sample
 D5–A5: excerpts 1–5
 Accent 2:
 C6: full sample
 D5–A5: excerpts 1–5
 Accent 3:
 C7: full sample
 D7–C8: excerpts 1–7



02 Ocean_drum-B

Range: C3–B6

Samples: 22

RAM: 1 MB

Level 2

Slow short and long sounds

Motion sounds

Accents, 3 sets with full samples and excerpts

1 velocity layer

Mapping:

C4–D4: slow, short, var. 1/2

F4–G4: slow, long, var. 1–3

A4–B4: motion sounds, var. 1–3

Accent 1:

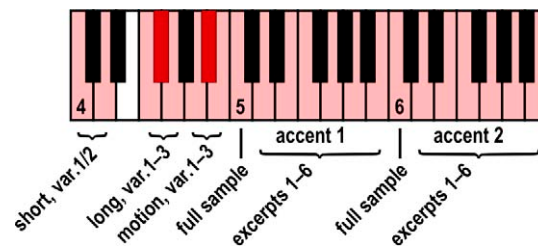
C5: full sample

D5–B5: excerpts 1–6

Accent 2:

C6: full sample

D6–B6: excerpts 1–6

**50 MISC PERCUSSION/04 Gun shots****Level 2:** 6mm pistol, 6/9 mm revolver

Shots, wet and dry

01 Shots

Range: C2–C5

Samples: 14

RAM: 1 MB

Level 2

6mm pistol, 6 and 9 mm revolvers

Single and double shots

Wet and dry variations

1 velocity layer

Mapping:

Pistol, 6mm:

C2–F2: single shots, wet (with reverb)

G2: double shot, wet

Revolver, 6mm:

C3–E3: single shots, wet

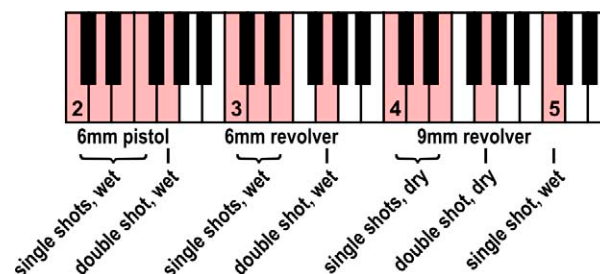
G3: double shot, wet

Revolver, 9mm:

C4–E4: single shots, dry (no reverb)

G4: double shot, dry

C5: single shot, wet



50 MISC PERCUSSION/05 Whip

Level 2: 2 whips
2 sound variations

01 Whip

Range: C3–D4

Samples: 8

RAM: 1 MB

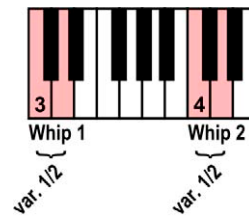
Level 2

2 whips with 2 sound variations each
2 velocity layers

Mapping:

C3–D3: Whip 1, var. 1/2

C4–D4: Whip 2, var. 1/2



50 MISC PERCUSSION/06 Hammer

Level 2: Hammer beats
Various surfaces

01 Hammer

Range: C3–E5

Samples: 20

RAM: 1 MB

Level 2

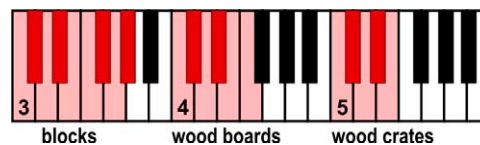
Hammer beats on wood blocks, boards, and crates
1 velocity layer

Mapping:

C3–G#3: blocks

C4–F4: wood boards

C5–E5: wood crates



50 MISC PERCUSSION/07 Ratchet

Level 2: Ratchets 1–5

Staccato, short, medium, long tones

01 Ratchets

Range: C2–F6

Samples: 25

RAM: 1 MB

Level 2

Ratchets 1–5

Staccato

Short, medium, and long tones (with release samples)

1 velocity layer

Release samples

Mapping:

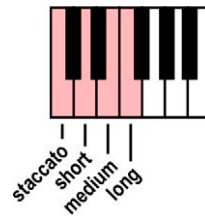
Ratchet 1: C2–F2; Ratchet 2: C3–F3; Ratchet 3: C4–F4; Ratchet 4: C5–F5; Ratchet 5: C6–F6

C: staccato

D: short tone

E: medium tone

F: long tone



50 MISC PERCUSSION/08 Sirens

Level 2: Sirens 1–3

Dry and wet tones

01 Sirens

Range: C2–G5

Samples: 18

RAM: 1 MB

Level 2

Siren 1: 3 dry and 3 wet tones

Siren 2: 7 dry tones

Siren 3: 5 dry tones

Various durations

1 velocity layer

Mapping:

Siren 1:

C2–E2: dry, 27, 31, 45 sec.

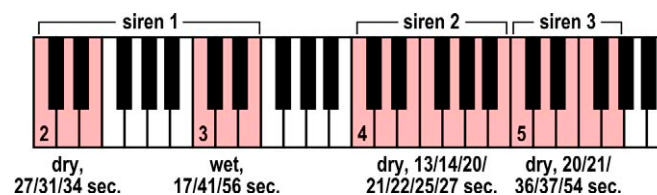
C3–E3: wet, 17, 41, 56 sec.

Siren 2:

C4–B4: dry, 13, 14, 20, 21, 22, 25, 27 sec.

Siren 3:

C5–G5: dry, 20, 21, 36, 37, 54 sec.



50 MISC PERCUSSION/09 Bull roarer**Level 2:** 6 bullroarer sounds**01 Bull_roarer****Range:** C2–B7**Samples:** 39**RAM:** 2 MB**Level 2**

6 bullroarer sounds

Full samples with 3 to 8 excerpts each

1 velocity layer

Mapping:

14 sec. – C2: full sample; D2–G2: excerpts 1–4

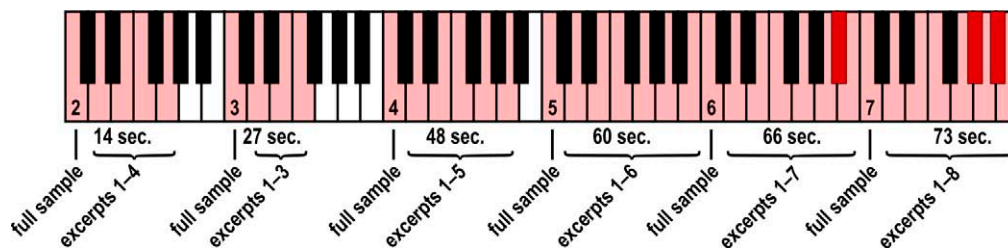
27 sec. – C3: full sample; D3–F3: excerpts 1–3

48 sec. – C4: full sample; D4–A4: excerpts 1–5

60 sec. – C5: full sample; D5–B5: excerpts 1–6

66 sec. – C6: full sample; D6–A6, A#6, B6: excerpts 1–7

73 sec. – C7: full sample; D7–B7: excerpts 1–8 (samples on G#7 and A#7)



50 MISC PERCUSSION/10 Spring drum

Level 1: 2 spring drums

Various techniques

Spr-Drum

Range: C2–F#6

Samples: 35

RAM: 2 MB

Level 1

2 spring drums

Pizzicato, finger slides and snips, rotation, and pulses

1 velocity layer

Mapping:

Spring Drum 1:

C2–D2: pizzicato, p–mf–ff

D#2: finger snip

E2–F2: finger slide, slow and fast

A2–B2: rotation, p, f, and stereo

E3–F3: pulse, single strokes

F#3–A3: pulse, slow, medium, and fast 1–2

Spring Drum 2:

C4–D#4: pizzicato, p–mf–f–ff

C5–D5: finger snips

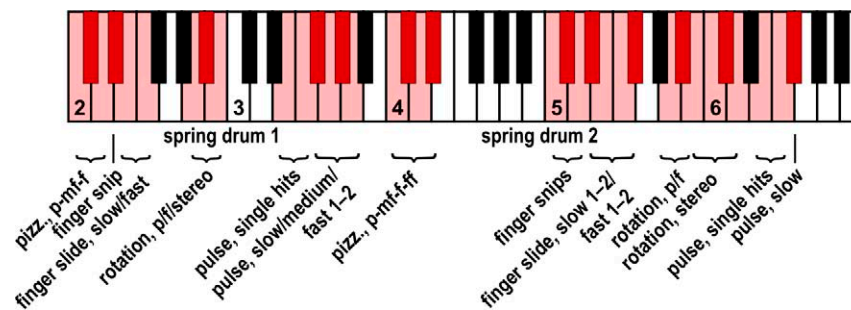
D#5–F#5: finger slide, slow 1–2 and fast 1–2

A5–A#5: rotation, p and f

B5–D6: stereo rotation 1–4

E6–F6: pulse, single strokes

F#6: slow pulse



50 MISC PERCUSSION/11 Vibratone

Level 2: Low and high vibratone

Single strokes

Pitch changes

Tremolo accelerando and ritardando

Vibratone_1 (2)

Range: C4–E5

Samples: 10

RAM: 1 MB

Level 2

Low/high Vibratone

Single strokes

1–4 Pitch changes

Tremolo accelerando and ritardando

1 velocity layer

Mapping:

C4: no pitch change

D4–E4: single pitch change, up/down

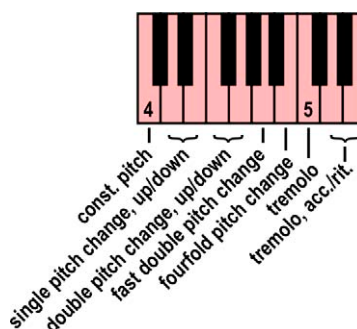
F4–G4: double pitch change, up/down

A4: fast double pitch change

B4: fourfold pitch change

C5: tremolo, normal

D5–E5: tremolo, accelerando/ritardando



50 MISC PERCUSSION/12 Flexatone

Level 2: Flexatone A and B

Static tones

Glissandos up and down, 2 and 4 sec.

Effects

01 Flexatone-A_static

Range: G#2–C6

Samples: 14

RAM: 1 MB

Level 2

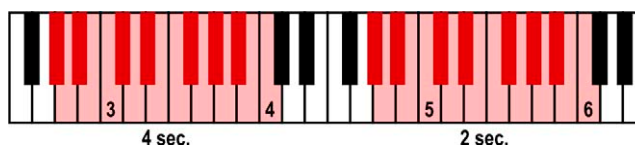
Static tones, 2 and 4 sec. tone length

1 velocity layer

Mapping:

G#2–C4: 4 sec. tones

G#4–C6: 2 sec. tones



02 Flexatone-A_glissandi

Range: C2–A6

Samples: 24

RAM: 1 MB

Level 2

Glissandos, up and down

2 and 4 sec.

Various intervals and starting notes

1 velocity layer

Mapping:

Up, 2 sec.:

C2–E2: D5, minor 3rd; A2: E5, dim. 5th; B2: F5, 4th

G2: A#4, major 3rd, dim. 5th, octave

Up, 4 sec.:

C3–E3: A#4, major 3rd, dim. 5th, octave

F3: D5, minor 3rd; G3: E5, dim. 5th; A3: F5, 4th

Down, 2 sec.:

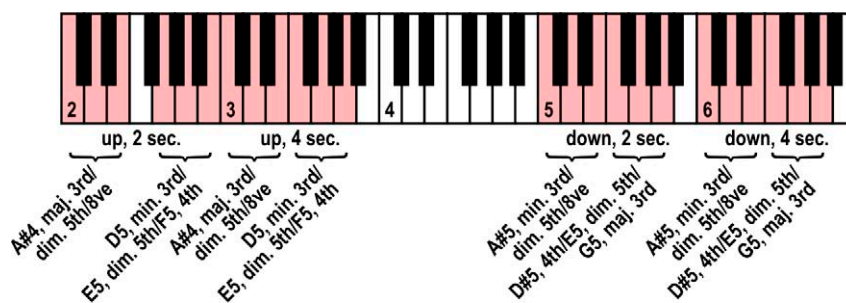
C5–E5: A#5, minor 3rd, dim. 5th, octave

F5: D#5, 4th; G5: E5, dim. 5th; A5: G5, major 3rd

Down, 4 sec.:

C6–E6: A#5, minor 3rd, dim. 5th, octave

G6: D#5, 4th; A6: E5, dim. 5th; B6: G5, major 3rd

**03 Flexatone-A_FX**

Range: C4–B5

Samples: 12

RAM: 1 MB

Level 2

2 sets of effects

Full samples with 4 and 6 excerpts

1 velocity layer

Mapping:

Set 1:

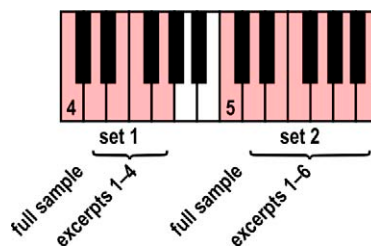
C4: full sample

D4–G4: excerpts 1–4

Set 2:

C5: full sample

D5–B5: excerpts 1–6



04 Flexatone-B_glissandi**Range: C3–G4****Samples: 8****RAM: 1 MB****Level 2**

Glissandos, up and down

2 and 4 sec.

Various intervals and starting notes

1 velocity layer

Mapping:

Up, 2 sec.:

C3: E5, 5th; D3: B5, 4th

Up, 4 sec.:

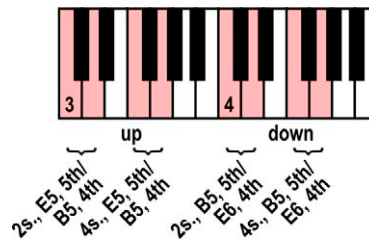
F3: E5, 5th; G3: B5, 4th

Down, 2 sec.:

C4: B5, 5th; D4: E6, 4th

Down, 4 sec.:

F4: B5, 5th; G4: E6, 4th

**05 Flexatone-B_FX****Range: C3–A4****Samples: 11****RAM: 1 MB****Level 2**

2 sets of effects

Full samples with 4 and 5 excerpts

1 velocity layer

Mapping:

Set 1:

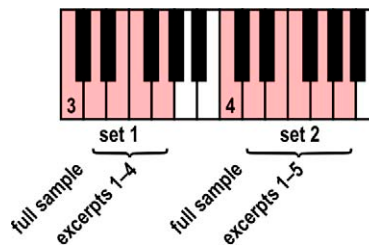
C3: full sample

D3–G3: excerpts 1–4

Set 2:

C4: full sample

D4–A4: excerpts 1–5



50 MISC PERCUSSION/13 Cuica

Level 2: Cuica 1–3

Short, medium, and long tones

Effect sounds

Cuica_1

Range: C2–D6

Samples: 18

RAM: 1 MB

Level 2

Short, medium, and long tones, piano and forte

2 effect sounds

1 velocity layer

Mapping:

C2–D2: short tones, piano

F2–A2: medium tones, piano

C3–F3: long tones, piano

C4–D4: short tones, forte

F4–A4: medium tones, forte

C5–D5: long tones, forte

C6–D6: effect sounds



Cuica_2

Range: C2–D6

Samples: 13

RAM: 1 MB

Level 2

Short, medium, and long tones, piano and forte

2 effect sounds

1 velocity layer

Mapping:

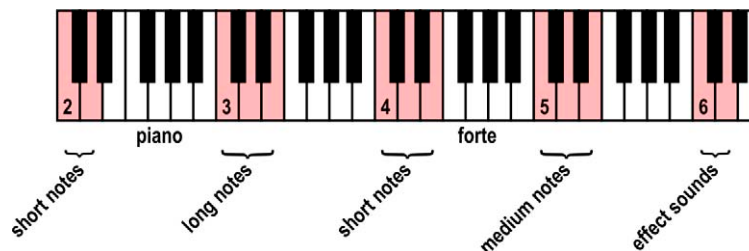
C2–D2: short notes, piano

C3–E3: long notes, piano

C4–E4: short notes, forte

C5–E5: medium notes, forte

C6–D6: effect sounds



Cuica_3**Range: C2–F6****Samples: 17****RAM: 1 MB****Level 2**

Short, medium, and long tones, piano and forte

2 effect sounds

1 special sound

1 velocity layer

Mapping:

C2–F2: short notes, piano

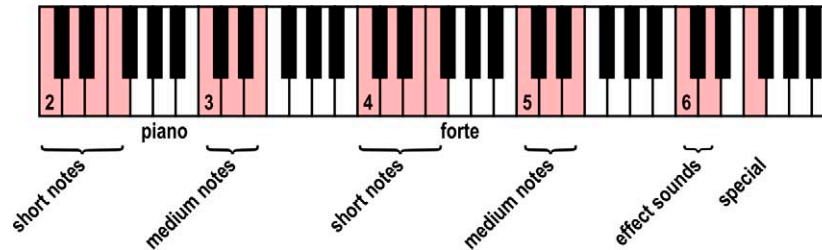
C3–E3: medium notes, piano

C4–F4: short notes, forte

C5–E5: medium notes, forte

C6–D6: effect sounds

F6: special

**50 MISC PERCUSSION/14 Waldteufel****Level 2:** Small and large waldteufel

Short, medium, long, and extra-long sounds

Waldteufel**Range: C3–D5****Samples: 14****RAM: 1 MB****Level 2**

Small and large waldteufel

Short, medium, long, and extra-long sounds

1 velocity layer

Mapping:

Small waldteufel:

C3–D3: short

F3–G3: medium

A3–B3: long

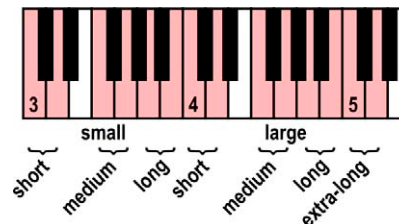
Large waldteufel:

C4–D4: short

F4–G4: medium

A4–B4: long

C5–D5: extra long



50 MISC PERCUSSION/15 Lion roar

Level 2: Short, medium, and long variations

Tremolos

Lion_roar

Range: C3–G5

Samples: 14

RAM: 1 MB

Level 2

Short, medium, and long tones with variations

Tremolos

1 velocity layer

Mapping:

C3: short tone

D3: medium tone

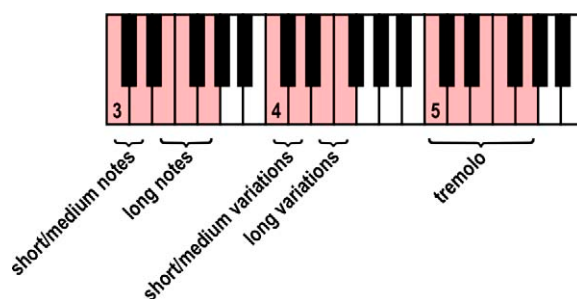
E3–G3: long tones

C4: variation, short tone

D4: variation, medium tone

E4–F4: variations, long tones

C5–G5: tremolos



Matrices

Matrix - LEVEL 1

L1 01 Triangle-A

Samples: 128 RAM: 8 MB [Level 1](#)

Patch:
01 Tri-A

L1 02 Crotales

Samples: 60 RAM: 3 MB [Level 1](#)

Patch:
01 Crotales_Metal

L1 03 Thundersheet

Samples: 21 RAM: 1 MB [Level 1](#)

Patch:
01 Thunder-Sheet_A

L1 04 Rails

Samples: 147 RAM: 9 MB [Level 1](#)

Patch:
01 Rails

L1 05 Castanets

Samples: 28 RAM: 1 MB [Level 1](#)

Patch:
01 Castanets

L1 06 Waterphone

Samples: 31 RAM: 1 MB [Level 1](#)

Patches:
01 WP_basic
02 WP_basic_modulation

Matrix switches: Vertical: Modwheel, 2 zones

	H1
V1	01 WP_basic
V2	02 WP_basic_modulation

L1 07 Log drum

Samples: 72 RAM: 4 MB [Level 1](#)

Patches:
01 Log-Drum_Hard
03 Log-Drum_Soft

Matrix switches: Vertical: Modwheel, 2 zones

	H1
V1	01 Log-Drum_Hard
V2	03 Log-Drum_Soft

L1 08 Misc percussion

Samples: 95 RAM: 5 MB [Level 1](#)

Miscellaneous percussion
Wind machine, whip, hammer, ratchets, and spring drum

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
V1	01 Windmachine	01 Whip	01 Hammer	01 Ratchets	Spr-Drum

Matrix - LEVEL 2**01 Triangle-A****Samples: 146 RAM: 9 MB Level 2**

Patches:

01 Tri-A

02 Tri-A_perf-rep_dyn9

Matrix switches: Horizontal: Keyswitches, C1–C#1

	C1	C#1
V1	01 Tri-A	02 Tri-A_perf-rep_dyn9

02 Triangle-B**Samples: 146 RAM: 9 MB Level 2**

Patches:

03 Tri-B

04 Tri-B_perf-rep_dyn9

Matrix switches: Horizontal: Keyswitches, C1–C#1

	C1	C#1
V1	03 Tri-B	04 Tri-B_perf-rep_dyn9

03 Crotales**Samples: 150 RAM: 9 MB Level 2**

Patches:

01 Crotales_Metal

02 Crotales_Tri

03 Crotales_Bow

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
V1	01 Crotales_Metal	02 Crotales_Tri	03 Crotales_Bow

04 Japanese Singing Bowls**Samples: 39 RAM: 2 MB Level 2**

Patches:

01 J-Bowls_Wood

02 J-Bowls_Rubber

03 J-Bowls_Secco

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
V1	01 J-Bowls_Wood	02 J-Bowls_Rubber	03 J-Bowls_Secco

05 Thundersheets**Samples: 90 RAM: 5 MB Level 2**

Thundersheets A–E

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
V1	thundersheet A	thundersheet B	thundersheet C	thundersheet D	thundersheet E

06 Steel**Samples: 179 RAM: 11 MB Level 2**

Patches:

01 Rails

02 Brakes

03 Springs

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
V1	01 Rails	02 Brakes	03 Springs

07 Castanets**Samples: 28 RAM: 1 MB Level 2**

Patch:

01 Castanets

08 Honks**Samples: 70 RAM: 4 MB Level 2**

Patches:

01 Car-Honks

02 Bike-Honks

Matrix switches: Horizontal: Keyswitches, C1–C#1

	C1	C#1
V1	01 Car-Honks	02 Bike-Honks

09 Chimes**Samples: 40 RAM: 2 MB Level 2**

Patches:

01 Glass-Chimes

02 Metal-Chimes

03 Bamboo-Chimes

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
V1	01 Glass-Chimes	02 Metal-Chimes	03 Bamboo-Chimes

10 Angklung**Samples: 90 RAM: 5 MB Level 2**

Patches:

01 Angklung_short

02 Angklung_medium

03 Angklung_long

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
V1	01 Angklung_short	02 Angklung_medium	03 Angklung_long

11 Waterphone**Samples: 115 RAM: 7 MB Level 2**

Sounds normal and modulated

Pizzicato

Repetitions

Arpeggio

Effects

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
V1	01 WP_basic	03 WP_pizz	04 WP_repetition	05 WP_arpeggio	06 WP_FX
V2	02 WP_basic_modulation	03 WP_pizz	04 WP_repetition	05 WP_arpeggio	06 WP_FX

12 Rhythm Percussion**Samples: 588 RAM: 36 MB Level 2**

Bamboo and kiwi shakers

Caxixi

Wood and gourd guiros

Jingle rings A and B

Claves

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
V1	01 Shaker_Bamboo	Caxixi	01 Guiro_Wood	01 Jingle-Ring_A	01 Claves
V1	03 Shaker_Kiwi	Caxixi	01 Guiro_Gourd	02 Jingle-Ring_B	01 Claves

13 Log drums**Samples: 168 RAM: 10 MB Level 2**

Wood, hard, medium, and soft mallets

Matrix switches: Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
V1	wood mallets	hard mallets	medium mallets	soft mallets

14 Boobams stick**Samples: 1055 RAM: 65 MB Level 2**

Wood stick

Single hits, rim hits, rolls, rebounds, 1–4 upbeats

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
V1	single hits	rolls	1 upbeat	3 upbeats
V2	rim hits	rebounds	2 upbeats	4 upbeats

15 Boobams yarn**Samples: 728 RAM: 45 MB Level 2**

Yarn-wound mallets

Single hits, rolls, rebounds, 1–4 upbeats

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
V1	single hits	rolls	1 upbeat	3 upbeats
V2	single hits	rebounds	2 upbeats	4 upbeats

16 Misc Percussion**Samples: 146 RAM: 9 MB Level 2**

Miscellaneous percussion

Wind machine, shots, hammer, sirens, rainmaker, whip, ratchets, and bullroarer

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
V1	wind machine	shots	hammer	sirens
V2	rainmaker	whip	ratchets	bullroarer

Presets**Add-Perc VSL Preset Level 1****Samples: 582 RAM: 36 MB Level 1****Matrices:**

L1 01 Triangle-A
 L1 02 Crotales
 L1 03 Thundersheet
 L1 04 Rails
 L1 05 Castanets
 L1 06 Waterphone
 L1 07 Log drum
 L1 08 Misc percussion

Keyswitches: F1–C2**Add-Perc VSL Preset Level 2****Samples: 2659 RAM: 166 MB Level 2****Matrices:**

01 Triangle-A
 02 Crotales
 04 Japanese Singing Bowls
 05 Thundersheets
 06 Steel
 07 Castanets
 08 Honks
 12 Rhythm Percussion
 13 Log drums
 14 Boobams stick
 16 Misc Percussion

Keyswitches: F1–D#2