



The logo for fxpansion, featuring the word "fxpansion" in a stylized, lowercase font with a blue circular graphic element above the letter "p".

BFD Percussion

Welcome and thank you for purchasing BFD Percussion! Please read through this manual carefully. The installation process and the Hit types used in this expansion pack differ from previous products in the BFD range. Reading through this manual will ensure that you get the most out of the sounds.

The FXpansion team
www.fxpansion.com

Installation

- BFD v1.5.45 or higher is **required** in order to use BFD Percussion. Please make sure it is properly installed before you proceed. Obtain the latest version from your FXpansion.com user account.
- The data on the BFD Percussion DVDs is compressed (using a zero-loss algorithm), to facilitate the delivery of the highest possible level of detail. You must run the installers in order to successfully install the sounds. You cannot simply copy the data to your hard drive.
- Mac users: during the installation process, you may be asked for your Admin password. You must have Admin rights in order to install this software.

• **Each DVD contains an installer specific to the contents of that DVD. Please follow these steps for each DVD !**

1. Insert the DVD and run the BFD Percussion installer.

• Windows:

If the installer does not auto-run, explore the DVD contents in My Computer and double-click **BFD PER Win Setup.exe** to run it.

• Mac:

Open the DVD contents and double-click **BFD PER Mac Setup**.

2. Follow the on-screen instructions until the 'Installation Path' stage appears.

3. Select your **BFD** folder: this is the folder which contains the **Data** folder in which the sample data resides. Make sure you select the **BFD** folder, and not **BFD/Data** or any other folder. If you do not select the correct folder, the new sounds will not be available within BFD. Click **Next** when you're ready to proceed.

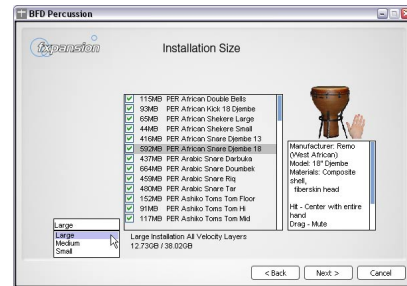


4. You now need to specify the Installation Size: you can specify the detail level and which Kit-Pieces to install.

- First, select a detail level. BFD Percussion can be installed with one of three detail levels, determining the maximum amount of velocity layers (and consequently affecting the hard disk space usage) that are installed for each Kit-Piece on the DVD.

Higher detail levels have a higher impact on system resources.

- Small:** a maximum of 16 velocity layers will be installed
- Medium:** a maximum of 24 velocity layers will be installed
- Large:** all velocity layers will be installed



- Next, deselect the Kit-Pieces which you do not want to install by clearing the check-boxes. All Kit-Pieces on the DVD will be installed with the same detail level during the installer routine. The info display on the right shows information about each Kit-Piece and the Hit types it contains. Use the scroll-bar to scroll through the list.

<input checked="" type="checkbox"/>	44MB	PER	African Snare Small
<input checked="" type="checkbox"/>	416MB	PER	African Snare Djembe 13
<input checked="" type="checkbox"/>	592MB	PER	African Snare Djembe 18
<input checked="" type="checkbox"/>	437MB	PER	Arabic Snare Darbuka
<input checked="" type="checkbox"/>	664MB	PER	Arabic Snare Doumbek

The installer program calculates disk space requirements dynamically, so please be patient when selecting and deselecting Kit-Pieces.

Click **Next** when you're ready to continue.

HINT: If you would like to install different Kit-Pieces from the same DVD with different detail levels (for example, using a higher detail level on snares can be useful), simply re-run the DVD's installer as many times as necessary, de-selecting the appropriate Kit-Pieces each time.

5. Enter your BFD Percussion serial number (located on the inside front cover of the digipak containing the DVDs). You will only need to enter your serial for the first DVD you install. Click **Next** to commence installation.

Installation of each DVD can take quite a while, as a large amount of data needs to be de-compressed and installed.

To register your copy of BFD Percussion, or if you experience any problems during the installation, please consult our support page:

www.fxexpansion.com/support

You MUST be registered to receive support. Registering also means we have a record of your serial if you lose it. Lost serials will NOT be replaced!

Registering also allows you access to the download area, containing free bonus content.

Recording notes

BFD Percussion was produced by John Emrich and the same team responsible for BFD Jazz & Funk Collection, at Omega Studios in Rockville, Maryland. The session was recorded at Omega's Studio B, the recording room measuring 27 ft. x 24 ft. with a 12 ft. ceiling. This setting was chosen because the nature of the instruments demanded a smaller, more intimate setting. The sound characteristic of the room is very similar to that in Jazz & Funk Collection, so it's perfect to use with it, although the instruments in BFD Percussion Collection sound great when mixed with any other BFD kits, or anything else for that matter!

Digidesign HD 192 A/D converters were used for all the channels. Royer 122 ribbon mics were used almost exclusively for the direct mics, capturing the harmonic intricacies of these organic instruments without colouring the sound. No additional processing was applied, except for some very subtle compression on the Room and PZM channels. The channels were set up as follows:

• Direct

A Royer 122 was used for the direct signal.

Instruments that are classified as kicks or snares also used either a second Royer 122, a Neumann U84, or a Neumann FET47. These mics were fed into a set of API preamps.

There are no bleed channels, as only one instrument was recorded at a time.

• Overhead

Pair of Neumann KM184s through Focusrite ISA 115 mic preamps.

• Room

Pair of Neumann U89s, approx. 20 ft. from the kit, into Focusrite Red 1 preamps and an SSL FX G384 bus compressor (set to 4:1 ratio, 1ms attack, auto release).

• PZM

Pair of Crown PZM 30Ds, approx. 18 ft. from the kit, through Focusrite Red 1 preamps and a pair of linked Urei LA4 limiters (set to 4:1 ratio, 9:00 threshold, and 10:30 on the gain - there were no units on the front panels!).

Using BFD Percussion

Pre-made Kits

All Kit-Pieces on all DVDs must be installed in order to use the pre-made Kit definitions. If you're only installing a selection of Kit-Pieces, you need to compile your own Kits from the installed Kit-Pieces, something which takes a matter of seconds in BFD.

Hit types and Kit-piece types

- The Kit-pieces in BFD Percussion are organized according to the number of Hit types present.
- The Hit types also differ from those in previous BFD libraries, due to the different and varied nature of these instruments.
- With the exception of the Hihat slot, Snare slots offer the most Hit types. Instruments with five Hit types are provided as snares.
- In the case of instruments such as congas, 2 snare slots will be required for a set of two congas, if you need all the Hit types available for both.
- Bongo sets are classified as toms, and should be loaded into the tom 4, 5 and 6 slots if both of the two available Hit types are required.
- Most of the other instruments have two Hit types and are classified as kicks, cymbals or percussion.
- Make sure you know how to use the 'Type' drop-down selector in the Kit-piece Selector panels to enable you to access all the available Kit-pieces. You can load any Kit-piece into any slot, although the number of Hit types will be reduced if the chosen slot supports fewer Hit types. For example, loading a Bodhran, which usually has five Hit types, into the percussion slot will mean that only the first two Hit types can be used. You will also lose the control over the top and bottom mic channels.
- Read the Kit-piece info displays and the listing in this manual for more specific information on the instruments, including Kit-piece type categorization, the available Hit types and differences from usual BFD Hit type conventions.

Using multiple instances of BFD

If you want to simply drop a few percussion sounds into an existing BFD drumkit setup, then you can use the percussion and extra kick, snare, tom and cymbal slots in the same instance of BFD.

However, if you are going to require more than the first 2 Hit types for the percussion instruments, you will need to load a second BFD instance in your host.

Please bear in mind that this can be too resource-intensive for less powerful systems.

The high levels of detail in these sounds can cause significantly higher RAM overhead compared to the content in the original BFD library, especially when using them alongside drumkit sounds. When using smaller amounts of RAM (768MB to 1GB), you should either install BFD Percussion with Small or Medium detail levels (see the Installation guide for details), or use 'Max layers', '16-bit mode' and other settings described in the BFD FAQ for reducing RAM usage.

More usage tips

Some sounds in BFD Percussion, like the flexatones, waterphones and bowed gongs, are atmospheric 'effect' sounds, intended to be used incidentally rather than rhythmically. It may not be a good idea to load these into slots referenced by Grooves, although by all means do experiment! With adjustment of parameters such as the damping settings, you can use these sounds in many different ways.

Percussion instruments with a lot of high frequency content, like triangles and shakers, sound more natural through the ambient buses rather than the directs. These types of instruments are rarely mic'd closely as they can sound too messy and resonant. It can be a good idea to mute the direct channels for any slots filled with these instruments, using the Output matrix in the Output Options panel, or by turning down the Direct Trim control for the slot in the BFD Mixer. Direct channels are still provided, of course, to give you the freedom to use the sounds in any way you like.

Grooves

BFD Percussion includes a library of Grooves, and presets with which to use them. Please see the **BFD Percussion Grooves** PDF manual on DVD1 for more details.

BFD Percussion: Kit-Piece Listing

DVD1

<u>Cachos Seeds</u> BFD/Data/PER African/Cachos Seeds Origin: African Model: Cachos Seeds Materials: Dried seed pods <i>Hit</i>	Size: 71 MB								
<u>Double Bells</u> BFD/Data/PER African/Double Bells Origin: West African Model: Double Bells Materials: Automobile muffler Notes: Precursor to agogo <i>Hit - Low pitch</i> <i>Alt - High pitch</i>	Size: 131 MB								
<u>18" Djembe</u> BFD/Data/PER African/Kick 18 Djembe Manufacturer: Remo Model: 18" Djembe Materials: Composite shell, fiberskin head Notes: Played with bass drum mallet <i>Hit</i>	Size: 100 MB								
<u>Shekere Large</u> BFD/Data/PER African/Shekere Large Origin: West African Model: Shekere Large Materials: Gourd with plastic beads <i>Hit</i>	Size: 59 MB								
<u>Shekere Small</u> BFD/Data/PER African/Shekere Small Origin: West African Model: Shekere Small Materials: Gourd with plastic beads <i>Hit</i>	Size: 40 MB								
<u>13" Djembe</u> BFD/Data/PER African/Snare Djembe 13 Origin: West African Model: 13" Djembe Materials: Carved from cherry log Notes: Played with hands. <i>Hit - Center with entire hand</i> <i>Drag - Mute</i> <i>Flam - Flam</i> <i>Rim - Rim with fingers</i> <i>SS - Center with heel of hand</i>	Size: 463 MB	Type: Snare		<u>Riq</u> BFD/Data/PER Arabic/Snare Riq Origin: Arabic Model: 10" Remo Riq Materials: Composite shell, fiberskin head <i>Hit - Center with thumb</i> <i>Drag - Finger flutter</i> <i>Flam - Mute</i> <i>Rim - Edge with fingers</i> <i>SS - Jingle</i>	Size: 381 MB	Type: Snare	<u>Medium Cowbell</u> BFD/Data/PER Bells/Cowbell Medium Manufacturer: LP Model: Medium Cowbell Materials: Metal <i>Hit - Stick on edge</i> <i>Alt - Tip on side</i>	Size: 99 MB	Type: Perc
<u>18" Djembe</u> BFD/Data/PER African/Snare Djembe 18 Manufacturer: Remo (West African) Model: 18" Djembe Materials: Composite shell, fiberskin head <i>Hit - Center with entire hand</i> <i>Drag - Mute</i> <i>Flam - Flam</i> <i>Rim - Rim with fingers</i> <i>SS - Center with heel of hand</i>	Size: 621 MB	Type: Snare		<u>Tar</u> BFD/Data/PER Arabic/Snare Tar Origin: Arabic Model: 14" Cooperman Tar Materials: Cherry shell goatskin head Notes: Played with hand <i>Hit - Ceter with thumb</i> <i>Drag - Finger flutter</i> <i>Flam - Finger flam</i> <i>Rim - Edge with fingers</i> <i>SS - Muted fingers</i>	Size: 489 MB	Type: Snare	<u>Small Cowbell</u> BFD/Data/PER Bells/Cowbell Small Manufacturer: LP Model: Small Cowbell Materials: Metal <i>Hit - Stick on edge</i> <i>Alt - Tip on side</i>	Size: 52 MB	Type: Perc
<u>Darbuka</u> BFD/Data/PER Arabic/Snare Darbuka Origin: Arabic Model: 8" Darbuka Materials: Aluminium <i>Hit - Center with thumb</i> <i>Drag - Finger flutter</i> <i>Flam - Muted finger</i> <i>Rim - Edge with finger</i> <i>SS - Slap</i>	Size: 436 MB	Type: Snare		<u>Ashiko Center</u> BFD/Data/PER Ashiko Toms/Tom Floor Manufacturer: Mountain Rhythm Model: Ashiko Materials: Pine with calfskin head <i>Hit - Center</i>	Size: 145 MB	Type: Floor Tom	<u>Goat Bells</u> BFD/Data/PER Bells/Goat Bells Manufacturer: Goat Herder Model: Goat Bells on a Stick Materials: Brass <i>Hit - Shaken</i>	Size: 135 MB	Type: Perc
<u>Doumbek</u> BFD/Data/PER Arabic/Snare Doumbek Origin: Arabic Model: 10" Doumbek Materials: Aluminium with jingles <i>Hit - Center with thumb</i> <i>Drag - Finger flutter</i> <i>Flam - Muted finger</i> <i>Rim - Edge with fingers</i> <i>SS - Slap</i>	Size: 632 MB	Type: Snare		<u>Ashiko Muted</u> BFD/Data/PER Ashiko Toms/Tom Mid Manufacturer: Mountain Rhythm Model: Ashiko Materials: Pine with calfskin head <i>Hit - Muted</i>	Size: 155 MB	Type: Mid Tom	<u>Sleigh Bells</u> BFD/Data/PER Bells/Sleigh bells Manufacturer: Santa Model: Sleigh Bells Materials: Brass <i>Hit</i>	Size: 88 MB	Type: Perc
				<u>Ashiko Edge</u> BFD/Data/PER Ashiko Toms/Tom Hi Manufacturer: Mountain Rhythm Model: Ashiko Materials: Pine with calfskin head <i>Hit - Edge</i>	Size: 91 MB	Type: High Tom	<u>Blue Jam Block Rubber Mallet</u> BFD/Data/PER Blocks/Blue Jam Block Rubber Manufacturer: LP Model: Blue Jam Block Materials: Composite Notes: Hit with rubber mallet <i>Hit</i>	Size: 69 MB	Type: Perc
				<u>Large Cowbell</u> BFD/Data/PER Bells/Cowbell Large Manufacturer: LP Model: Large Cowbell Materials: Metal <i>Hit - Stick on edge</i> <i>Alt - Tip on side</i>	Size: 111 MB	Type: Perc	<u>Blue Jam Block Stick</u> BFD/Data/PER Blocks/Blue Jam Block Stick Manufacturer: LP Model: Blue Jam Block Materials: Composite Notes: Hit with stick <i>Hit</i>	Size: 70 MB	Type: Perc

<u>Blue Jam Block Yarn Mallet</u> BFD/Data/PER Blocks/Blue Jam Block Yarn Manufacturer: LP Model: Blue Jam Block Materials: Composite Notes: Hit with yarn mallet Hit	Size: 69 MB Type: Perc	<u>Wood Block High Yarn Mallet</u> BFD/Data/PER Blocks/Wood Block High Yarn Manufacturer: Ludwig Model: Wood Block High Materials: Wood Notes: Hit with yarn mallet Hit	Size: 42 MB Type: Perc	<u>LP Bongo High Edge</u> BFD/Data/PER Bongos LP/Tom Hi Manufacturer: LP Model: Bongos (high bongo) Materials: Wood with calfskin heads Notes: Hit with hands Hit - Hit on edge	Size: 43 MB Type: High Tom	<u>Wind Chimes Single High to Low</u> BFD/Data/PER Chimes/Wind Chimes LP Down Manufacturer: LP Model: Wind Chimes Single Row Materials: Brass Hit - High to low sweep	Size: 344 MB Type: Perc
<u>Red Jam Block Rubber Mallet</u> BFD/Data/PER Blocks/Red Jam Block Rubber Manufacturer: LP Model: Red Jam Block Materials: Composite Notes: Hit with rubber mallet Hit	Size: 69 MB Type: Perc	<u>Wood Block Low Rubber Mallet</u> BFD/Data/PER Blocks/Wood Block Low Rubber Manufacturer: Duplex Model: Wood Block Low Date: 1960s Materials: Wood Notes: Hit with rubber mallet Hit	Size: 40 MB Type: Perc	<u>Ludwig Bongo Low</u> BFD/Data/PER Bongos Ludwig/Tom Floor Manufacturer: Ludwig Model: Bongos (low bongo) Date: 1960s Materials: Wood with plastic heads Notes: Hit with sticks. Load to tom 4,5,6 slots for Alt hit type Hit - Hit in center Alt - Muted hit	Size: 143 MB Type: Floor Tom	<u>Wind Chimes Single Low to High</u> BFD/Data/PER Chimes/Wind Chimes LP Up Manufacturer: LP Model: Wind Chimes Single Row Materials: Brass Hit - Low to high sweep	Size: 291 MB Type: Perc
<u>Red Jam Block Stick</u> BFD/Data/PER Blocks/Red Jam Block Stick Manufacturer: LP Model: Red Jam Block Materials: Composite Notes: Hit with stick Hit	Size: 78 MB Type: Perc	<u>Wood Block Low Stick</u> BFD/Data/PER Blocks/Wood Block Low Stick Manufacturer: Duplex Model: Wood Block Low Date: 1960s Materials: Wood Notes: Hit with stick Hit	Size: 36 MB Type: Perc	<u>Ludwig Bongo High</u> BFD/Data/PER Bongos Ludwig/Tom Mid Manufacturer: Ludwig Model: Bongos (high bongo) Date: 1960s Materials: Wood with plastic heads Notes: Hit with sticks. Load to tom 4,5,6 slots for Alt hit type Hit - Hit in center Alt - Muted hit	Size: 194 MB Type: Mid Tom	<u>Djembe Center</u> BFD/Data/PER Djembe Toms/Tom Floor Origin: Arabic Model: 10" Small Djembe Materials: Carved log, goatskin head Notes: Played with hand Hit - Center with fingers	Size: 81 MB Type: Floor Tom
<u>Red Jam Block Yarn Mallet</u> BFD/Data/PER Blocks/Red Jam Block Yarn Manufacturer: LP Model: Red Jam Block Materials: Composite Notes: Hit with yarn mallet Hit	Size: 68 MB Type: Perc	<u>Wood Block Low Yarn Mallet</u> BFD/Data/PER Blocks/Wood block Low Yarn Manufacturer: Duplex Model: Wood Block Low Date: 1960s Materials: Wood Notes: Hit with yarn mallet Hit	Size: 52 MB Type: Perc	<u>Ludwig Bongo High Edge</u> BFD/Data/PER Bongos Ludwig/Tom Hi Manufacturer: Ludwig Model: Bongos (high bongo) Date: 1960s Materials: Wood with plastic heads Notes: Hit with sticks Hit - Hit on edge	Size: 68 MB Type: High Tom	<u>Djembe Edge</u> BFD/Data/PER Djembe Toms/Tom Mid Origin: Arabic Model: 10" Small Djembe Materials: Carved log, goatskin head Notes: Played with hand Hit - Edge with fingers	Size: 64 MB Type: Mid Tom
<u>Wood Block High Rubber Mallet</u> BFD/Data/PER Blocks/Wood Block High Rubber Manufacturer: Ludwig Model: Wood Block High Materials: Wood Notes: Hit with rubber mallet Hit	Size: 49 MB Type: Perc	<u>LP Bongo Low</u> BFD/Data/PER Bongos LP/Tom Floor Manufacturer: LP Model: Bongos (low bongo) Materials: Wood with calfskin heads Notes: Hit with hands. Load to tom 4,5,6 slots for Alt hit type Hit - Hit in center Alt - Muted hit	Size: 129 MB Type: Floor Tom	<u>Wind Chimes Double High to Low</u> BFD/Data/PER Chimes/Wind Chimes Double Down Manufacturer: LP Model: Wind Chimes Double Row Materials: Solid brass Hit - High to low sweep	Size: 158 MB Type: Perc	<u>Balinese Nipple Gong Stick</u> BFD/Data/PER EastAsian/Gong Nipple Metal Stick Origin: Balinese Model: 10" Nipple Gong Materials: Metal Notes: Hit with stick Hit	Size: 186 MB Type: Cymbal
<u>Wood Block High Stick</u> BFD/Data/PER Blocks/Wood Block High Stick Manufacturer: Ludwig Model: Wood Block High Materials: Wood Notes: Hit with stick Hit	Size: 50 MB Type: Perc	<u>LP Bongo High</u> BFD/Data/PER Bongos LP/Tom Mid Manufacturer: LP Model: Bongos (high bongo) Materials: Wood with calfskin heads Notes: Hit with hands. Load to tom 4,5,6 slots for Alt hit type Hit - Hit in center Alt - Muted hit	Size: 117 MB Type: Mid Tom	<u>Wind Chimes Double Low to High</u> BFD/Data/PER Chimes/Wind Chimes Double Up Manufacturer: LP Model: Wind Chimes Double Row Materials: Solid brass Hit - Low to high sweep	Size: 186 MB Type: Perc		

<p><u>Balinese Nipple Gong Mallet</u> BFD/Data/PER EastAsian/Gong Nipple Rubber Mallet Origin: Balinese Model: 10" Nipple Gong Materials: Metal Notes: Hit with rubber mallet <i>Hit</i></p>	Size: 194 MB Type: Cymbal	<p><u>Ludwig Temple Block 2</u> BFD/Data/PER EastAsian/Temple Block 2 Manufacturer: Ludwig Model: Temple Block Materials: Maple Notes: Small block #2 <i>Hit</i></p>	Size: 67 MB Type: Perc	<p><u>Flexatone Small Single</u> BFD/Data/PER FX/Flexatone Small Single Manufacturer: Ludwig Model: Flexatone Small (high pitch) Materials: Metal <i>Hit - Single hit with pitch change</i></p>	Size: 91 MB Type: Perc	<p><u>Waterphone Stick Down</u> BFD/Data/PER FX/Waterphone Stick Down Manufacturer: Unknown Model: Waterphone Materials: Bronze rods, tin chamber Notes: Hit with rubber mallet <i>Hit - High to low sweep</i></p>	Size: 364 MB Type: Perc
<p><u>Sabian 28" Symphonic Gong</u> BFD/Data/PER EastAsian/Gong Sabian 28 Manufacturer: Sabian Model: 28" Symphonic Gong Materials: Bronze Notes: Hit with medium beater <i>Hit</i></p>	Size: 653 MB Type: Cymbal	<p><u>Ludwig Temple Block 3</u> BFD/Data/PER EastAsian/Temple Block 3 Manufacturer: Ludwig Model: Temple Block Materials: Maple Notes: Medium block #3 <i>Hit</i></p>	Size: 70 MB Type: Perc	<p><u>Thundersheet Shake</u> BFD/Data/PER FX/Thunder Sheet Shake Manufacturer: John Emrich Model: Thundersheet Materials: Sheet of metal Notes: Shaken, not stirred <i>Hit - Shake</i></p>	Size: 169 MB Type: Perc	<p><u>Waterphone Stick Up</u> BFD/Data/PER FX/Waterphone Stick Up Manufacturer: Unknown Model: Waterphone Materials: Bronze rods, tin chamber Notes: Hit with rubber mallet <i>Hit - low to high pitch sweep</i></p>	Size: 414 MB Type: Perc
<p><u>Han Chi 22" Wind Gong Mallet</u> BFD/Data/PER EastAsian/Gong Wind Mallet Manufacturer: Han Chi Model: 22" Wind Gong Materials: Brass Notes: Hit with mallet <i>Hit</i></p>	Size: 832 MB Type: Cymbal	<p><u>Ludwig Temple Block 4</u> BFD/Data/PER EastAsian/Temple Block 4 Manufacturer: Ludwig Model: Temple Block Materials: Maple Notes: Large block #4 <i>Hit</i></p>	Size: 70 MB Type: Perc	<p><u>Thundersheet Stick</u> BFD/Data/PER FX/Thunder Sheet Stick Manufacturer: John Emrich Model: Thundersheet Materials: Sheet of metal Notes: Hit with stick (cymbal-like) <i>Hit</i></p>	Size: 176 MB Type: Perc	<p><u>Han Chi 22" Wind Gong Bowed</u> BFD/Data/PER FX/Wind Gong Bowed Manufacturer: Han Chi Model: 22" Wind Gong Materials: Brass Notes: Bowed <i>Hit</i></p>	Size: 509 MB Type: Cymbal
<p><u>Han Chi 22" Wind Gong Mallet Water</u> BFD/Data/PER EastAsian/Gong Wind Mallet Water Manufacturer: Han Chi Model: 22" Wind Gong Materials: Brass Notes: Hit with mallet, dunked in water <i>Hit</i></p>	Size: 238 MB Type: Cymbal	<p><u>Ludwig Temple Block 5</u> BFD/Data/PER EastAsian/Temple Block 5 Manufacturer: Ludwig Model: Temple Block Materials: Maple Notes: Large block #5 <i>Hit</i></p>	Size: 70 MB Type: Perc	<p><u>Waterphone Bowed Down</u> BFD/Data/PER FX/Waterphone Bowed Down Manufacturer: Unknown Model: Waterphone Materials: Bronze rods, tin chamber Notes: Bowed <i>Hit - High to low sweep</i></p>	Size: 323 MB Type: Perc	<p><u>Han Chi 22" Wind Gong Bowed Water</u> BFD/Data/PER FX/Wind Gong Bowed Water Manufacturer: Han Chi Model: 22" Wind Gong Materials: Brass Notes: Bowed and dunked in water <i>Hit</i></p>	Size: 284 MB Type: Cymbal
<p><u>Han Chi 22" Wind Gong Stick</u> BFD/Data/PER EastAsian/Gong Wind Stick Manufacturer: Han Chi Model: 22" Wind Gong Materials: Brass Notes: Hit with stick <i>Hit</i></p>	Size: 589 MB Type: Cymbal	<p><u>Flexatone Large Shake</u> BFD/Data/PER FX/Flexatone Large Shake Manufacturer: Ludwig Model: Flexatone Large Materials: Metal <i>Hit - Shake with pitch change</i></p>	Size: 103 MB Type: Perc	<p><u>Waterphone Bowed Up</u> BFD/Data/PER FX/Waterphone Bowed up Manufacturer: Unknown Model: Waterphone Materials: Bronze rods, tin chamber Notes: Bowed <i>Hit - Low to high sweep</i></p>	Size: 300 MB Type: Perc	<p><u>Heels</u> BFD/Data/PER FX/Woman's Heels Manufacturer: Jaime T. Model: Steve Madden Shoes size 9 Date: Never ask a woman her age! Materials: Grape Escape nail polish <i>Hit - Woman putting her foot down!</i></p>	Size: 25 MB Type: Perc
<p><u>Ludwig Temple Block 1</u> BFD/Data/PER EastAsian/Temple Block 1 Manufacturer: Ludwig Model: Temple Block Materials: Maple Notes: Small block #1 <i>Hit</i></p>	Size: 55 MB Type: Perc	<p><u>Flexatone Large Single</u> BFD/Data/PER FX/Flexatone Large Single Manufacturer: Ludwig Model: Flexatone Large Materials: Metal <i>Hit - Single strike with pitch change</i></p>	Size: 73 MB Type: Perc	<p><u>Waterphone Hit</u> BFD/Data/PER FX/Waterphone Hit Manufacturer: Unknown Model: Waterphone Materials: Bronze rods, tin chamber Notes: Hit with hand <i>Hit - Hand strike on bottom</i></p>	Size: 184 MB Type: Perc		
		<p><u>Flexatone Small Shake</u> BFD/Data/PER FX/Flexatone Small Shake Manufacturer: Ludwig Model: Flexatone Small (high pitch) Materials: Metal <i>Hit - Shake with pitch change</i></p>	Size: 85 MB Type: Perc				

DVD2

<p><u>Large Coffee Mug</u> BFD/Data/PER Household/BFD Coffee Mug Manufacturer: www.FXpansionStore.com Model: Large Coffee Mug Materials: Ceramic Notes: Hit with rubber mallet <i>Hit</i></p>	Size: 74 MB	<p><u>12" Frying Pan</u> BFD/Data/PER Household/Frying Pan Low Manufacturer: Kitchen Essentials Model: 12" Frying Pan Materials: Teflon-coated metal <i>Hit</i></p>	Size: 70 MB	<p><u>Cookie Sheet</u> BFD/Data/PER Household/Snare Cookie Sheet Manufacturer: K-Mart Model: Cookie Sheet Materials: Aluminium <i>Hit - Center Drag - Drag Flam - Flam Rim - Edge SS - Suspended</i></p>	Size: 431 MB	<p><u>Water Cooler Stick</u> BFD/Data/PER Household/Snare Water Cooler Stick Manufacturer: Culligan Model: Water Cooler Materials: Plastic Notes: Hit with stick <i>Hit - Center with stick Drag - Side scraped with stick Flam - Flam Rim - Edge with stick SS - Muted strike with stick</i></p>	Size: 279 MB
<p><u>Coffee Can Bottom</u> BFD/Data/PER Household/Coffee Can Bottom Manufacturer: Illy Model: Coffee Can Materials: Aluminium Notes: Hit with stick <i>Hit - Low pitch hit on bottom Alt - High pitch hit on bottom</i></p>	Size: 110 MB	<p><u>Large Cardboard Box</u> BFD/Data/PER Household/Kick Cardboard Box Manufacturer: Unknown Model: Large Box Materials: Cardboard Notes: Hit with big stick <i>Hit</i></p>	Size: 109 MB	<p><u>Kitchen Sink Snare</u> BFD/Data/PER Household/Snare Kitchen Sink Origin: American Model: Kitchen Sink Materials: Stainless steel (with some food stuck to it!) <i>Hit - Struck with hand Drag - Struck with brush Flam - Wooden club Rim - Struck with fork SS - Faucet struck with spatula</i></p>	Size: 570 MB	<p><u>Small Water Cooler</u> BFD/Data/PER Household/Snare Water Cooler Small Stick Manufacturer: Culligan Model: Small Water Cooler Materials: Plastic Note: Hit with stick <i>Hit - Center with stick Drag - Side scraped with stick Flam - Flam Rim - Edge with stick SS - Muted strike with stick</i></p>	Size: 284 MB
<p><u>Coffee Can Lid</u> BFD/Data/PER Household/Coffee Can Lid Manufacturer: Illy Model: Coffee Can Materials: Aluminium Notes: Hit with stick <i>Hit - Stick on lid</i></p>	Size: 34 MB	<p><u>22 Gallon Bin</u> BFD/Data/PER Household/Kick Rubbermaid Manufacturer: Rubbermaid Model: 22 Gallon Bin Materials: Plastic Notes: Hit with soup ladle <i>Hit</i></p>	Size: 96 MB	<p><u>Plastic Bucket</u> BFD/Data/PER Household/Snare Plastic Bucket Manufacturer: Billy's Buckets Model: Mixing Bucket Materials: Plastic <i>Hit - Center Drag - Drag Flam - Flam Rim - Rim SS - Closed</i></p>	Size: 364 MB	<p><u>Spoons</u> BFD/Data/PER Household/Spoons Manufacturer: Oneida Model: Spoons Materials: Metal Notes: Struck against leg <i>Hit</i></p>	Size: 44 MB
<p><u>1 Quart Saucepan</u> BFD/Data/PER Household/Cooking Pot High Manufacturer: Farberware Model: 1 Quart Saucepan Materials: Metal with spaghetti residue <i>Hit</i></p>	Size: 54 MB	<p><u>Kitchen Sink Crash</u> BFD/Data/PER Household/Kitchen Sink Crash Origin: American Model: Kitchen Sink Materials: Stainless Steel (with some food stuck to it!) <i>Hit - Spoons, forks, pots and pans dropped in!</i></p>	Size: 115 MB	<p><u>Water Cooler Hand</u> BFD/Data/PER Household/Snare Water Cooler Hand Manufacturer: Culligan Model: Water Cooler Materials: Plastic Notes: Hit with hand <i>Hit - Center Drag - Scrape with fingernails Flam - Knuckle Rim - Mute SS - Slap</i></p>	Size: 244 MB	<p><u>Spoons on Mouth</u> BFD/Data/PER Household/Spoons On Mouth Manufacturer: Oneida Model: Spoons Materials: Metal Notes: One spoon against mouth, struck with remaining spoon <i>Hit</i></p>	Size: 32 MB
<p><u>2 Quart Saucepan</u> BFD/Data/PER Household/Cooking Pot Low Manufacturer: Farberware Model: 2 Quart Saucepan Materials: Non-stick metal <i>Hit</i></p>	Size: 54 MB	<p><u>6.5" Saw Blade</u> BFD/Data/PER Household/Saw Blade Manufacturer: Ace Model: 6.5" Saw Blade Materials: Steel <i>Hit - Ringing stick hit Alt - Muted hit</i></p>	Size: 212 MB	<p><u>Small Beer Can Shaker</u> BFD/Data/PER Household/Shaker Beer Can Small Origin: American Model: Small Beer Can Shaker Materials: Aluminium <i>Hit</i></p>	Size: 29 MB	<p><u>Trashcan Lid</u> BFD/Data/PER Household/Trash Can Lid Stick Manufacturer: Trash Model: Trashcan Lid Materials: Metal Notes: Hit with stick <i>Hit</i></p>	Size: 170 MB
<p><u>8" Frying Pan</u> BFD/Data/PER Household/Frying Pan High Manufacturer: Kitchen Essentials Model: 8" Frying Pan Materials: Non-stick metal <i>Hit</i></p>	Size: 67 MB	<p><u>Coffee Thermos Shaker</u> BFD/Data/PER Household/Shaker Thermos Large Origin: American Model: Coffee Thermos Shaker Materials: Aluminium <i>Hit</i></p>	Size: 40 MB				

<p>Trashcan Lids BFD/Data/PER Household/Trash Can Lids Crash Manufacturer: Trash Model: Trashcan Lids Materials: Metal Notes: Struck together like concert cymbals <i>Hit</i></p>	Size: 188 MB	<p>Bodhran Tipper BFD/Data/PER Irish/Snare Bodhran Tipper Manufacturer: Walton Model: Bodhran Materials: Wood frame, goatskin head Notes: Hit with tipper <i>Hit - Low</i> <i>Drag - Mute</i> <i>Flam - (redirected to hit)</i> <i>Rim - High</i> <i>SS - Shell</i></p>	Size: 291 MB	<p>Caixi BFD/Data/PER Latin/Caixi Origin: Latin Model: Caixi Materials: Woven basket, gourd bottom <i>Hit - Shaken sideways</i> <i>Alt - Shaken down on gourd bottom</i></p>	Size: 98 MB	<p>LP Multi-Guiro Rake BFD/Data/PER Latin/Multi-Guiro Rake Manufacturer: LP Model: Multi-Guiro Materials: Metal Notes: Played with metal rake <i>Hit - Rake strike</i> <i>Alt - Rake scrape</i></p>	Size: 88 MB
<p>Trashcan Beater BFD/Data/PER Household/Trash Can BD beater Manufacturer: Trash Model: Trashcan Materials: Metal Notes: Hit with wood beater <i>Hit</i></p>	Size: 81 MB	<p>Agogo Bell Metal Beater BFD/Data/PER Latin/Agogo Bell Metal Manufacturer: LP Model: Agogo Bell Materials: Metal Notes: Hit with metal beater <i>Hit - Low</i> <i>Alt - High</i></p>	Size: 211 MB	<p>Claves High BFD/Data/PER Latin/Claves Hi Origin: Latin Model: Claves High Materials: Rosewood <i>Hit</i></p>	Size: 71 MB	<p>LP Multi-Guiro Shaker BFD/Data/PER Latin/Multi-Guiro Shaker Manufacturer: LP Model: Multi-Guiro Materials: Metal Notes: Played as shaker <i>Hit - Shake</i></p>	Size: 57 MB
<p>Trashcan Chains BFD/Data/PER Household/Trash Can Chains Manufacturer: Trash Model: Trashcan Materials: Metal with added chains Notes: Can slammed against floor! <i>Hit</i></p>	Size: 81 MB	<p>Agogo Bell Stick BFD/Data/PER Latin/Agogo Bell Stick Manufacturer: LP Model: Agogo Bell Materials: Metal Notes: Hit with wooden stick <i>Hit - Low</i> <i>Alt - High</i></p>	Size: 171 MB	<p>Claves Low BFD/Data/PER Latin/Claves Lo Origin: Latin Model: Claves Low Materials: Rosewood <i>Hit</i></p>	Size: 58 MB	<p>Cajon BFD/Data/PER Latin/Snare Cajon Manufacturer: John Emrich Model: Wood Box Materials: Wood with plexiglass head <i>Hit - Open edge with fingers</i> <i>Drag - Open strike (no snare)</i> <i>Flam - Knuckle (no snare)</i> <i>Rim - Muted strike on edge</i> <i>SS - Muted strike</i></p>	Size: 332 MB
<p>Pig Ribs BFD/Data/PER Irish/Bones Origin: Irish Model: Pig Ribs Materials: Bone <i>Hit</i></p>	Size: 50 MB	<p>Gourd Cabasa BFD/Data/PER Latin/Cabasa Gourd Origin: Latin Model: Gourd Cabasa Materials: Gourd with wood beads <i>Hit - Long sweep</i> <i>Alt - Short sweep</i></p>	Size: 141 MB	<p>Guiro BFD/Data/PER Latin/Guiro Origin: Cuban Model: Guiro Materials: Wood Notes: Played with wooden rod <i>Hit - Guiro strike</i> <i>Alt - Guiro Scrape</i></p>	Size: 124 MB	<p>Gon Bops Conga BFD/Data/PER Latin/Snare Gon Bop Conga Manufacturer: Gon Bops Model: Conga Materials: Oak with calfskin head <i>Hit - Open</i> <i>Drag - Mute</i> <i>Flam - (redirected to hit)</i> <i>Rim - Slap</i> <i>SS - Heel</i></p>	Size: 328 MB
<p>Bodhran Mallet BFD/Data/PER Irish/Snare Bodhran Mallet Manufacturer: Walton Model: Bodhran Materials: Wood frame, goatskin head Notes: Hit with mallet <i>Hit - Low</i> <i>Drag - Mute</i> <i>Flam - Drag</i> <i>Rim - High</i> <i>SS - Shell</i></p>	Size: 537 MB	<p>LP Cabasa BFD/Data/PER Latin/Cabasa Metal Manufacturer: LP Model: Cabasa Materials: Metal beads and surface <i>Hit - Short sweep</i> <i>Alt - Long sweep</i></p>	Size: 139 MB	<p>Maracas BFD/Data/PER Latin/Maraca Manufacturer: Latin Model: Maracas Materials: Gourd <i>Hit</i></p>	Size: 70 MB	<p>Gon Bops Quinto BFD/Data/PER Latin/Snare Gon Bop Quinto Manufacturer: Gon Bops Model: Quinto Materials: Oak with calfskin heads <i>Hit - Open hit</i> <i>Drag - Muted hit</i> <i>Flam - Heel strike</i> <i>Rim - Slap</i> <i>SS - Knuckle</i></p>	Size: 324 MB
		<p>Castanets BFD/Data/PER Latin/Castanets Manufacturer: Ludwig Model: Castanets Materials: Plastic <i>Hit</i></p>	Size: 101 MB				

<p>Meinl Quinto BFD/Data/PER Latin/Snare Meinl Quinto Manufacturer: Meinl Model: Quinto Materials: Rubber wood with calfskin heads <i>Hit - Open hit</i> <i>Drag - Muted hit</i> <i>Flam - Heel strike</i> <i>Rim - Slap</i> <i>SS - Knuckle</i></p>	Size: 401 MB	<p>Vibraslap BFD/Data/PER Latin/Vibraslap Manufacturer: LP Model: Vibraslap Materials: Wood <i>Hit</i></p> <p><u>Egg Shakers</u> BFD/Data/PER Misc/Egg Shaker Manufacturer: Rhythm Tech Model: Egg Shakers Materials: Plastic <i>Hit</i></p>	Size: 159 MB	<p>Carrol Sound Tambourine BFD/Data/PER Misc/Snare Tamb Carrol Sound Manufacturer: Carrol Sound Model: Tambourine Materials: Wood shell, calfskin head Notes: Use flam for side-to-side shakes <i>Hit - Center</i> <i>Drag - Thumb roll</i> <i>Flam - Single shake</i> <i>Rim - Edge with fingers</i> <i>SS - Mute</i></p>	Size: 327 MB	<p>Perdell 4" Triangle BFD/Data/PER Misc/Triangle Small Manufacturer: Perdell Model: 4" Triangle Materials: Chrome-plated steel <i>Hit - Ringing</i> <i>Alt - Muted</i></p>	Size: 371 MB
<p>Meinl Tumba BFD/Data/PER Latin/Snare Meinl Tumba Manufacturer: Meinl Model: Tumba Materials: Rubber wood with calfskin heads <i>Hit - Open hit</i> <i>Drag - Slide</i> <i>Flam - Heel strike</i> <i>Rim - Muted hit</i> <i>SS - Knuckle</i></p>	Size: 336 MB	<p><u>Finger Cymbals</u> BFD/Data/PER Misc/Finger Cymbal Manufacturer: Zildjian Model: Finger Cymbals Materials: Bronze Notes: Struck together <i>Hit</i></p>	Size: 61 MB	<p>Ludwig 8" Tambourine BFD/Data/PER Misc/Snare Tamb Ludwig Manufacturer: Ludwig Model: 8" Tambourine Materials: Wood shell, calfskin head Notes: Use flam for side-to-side shakes! <i>Hit - Center</i> <i>Drag - Thumb roll</i> <i>Flam - Single shake</i> <i>Rim - Rim with fingers</i> <i>SS - Mute</i></p>	Size: 268 MB	<p>Pakistani Tambourine BFD/Data/PER SouthAsian/Snare Tamb Pakistan Origin: Pakistani Model: Pakistani Tambourine Materials: Wood shell, calfskin head Notes: Use flam for side-to-side shakes! <i>Hit - Center</i> <i>Drag - Thumb roll</i> <i>Flam - Single shake</i> <i>Rim - Rim with fingers</i> <i>SS - Mute</i></p>	Size: 321 MB
<p>Pandeiro BFD/Data/PER Latin/Snare Pandeiro Origin: Spanish Model: Pandeiro Materials: Wood shell, plastic head <i>Hit - Center</i> <i>Drag - Thumb roll</i> <i>Flam - Heel of hand</i> <i>Rim - Fingers</i> <i>SS - Slap</i></p>	Size: 395 MB	<p><u>Fingersnaps</u> BFD/Data/PER Misc/Finger Snaps Manufacturer: Human Model: Fingersnaps Materials: Skin and bone Notes: Four-person ensemble <i>Hit</i></p> <p><u>Handclaps</u> BFD/Data/PER Misc/Group Claps Manufacturer: Human Model: Handclaps Materials: Skin and Bone Notes: Four-person ensemble <i>Hit</i></p>	Size: 32 MB	<p>Stick Clicks BFD/Data/PER Misc/Stick Clicks Manufacturer: Pro Mark Model: 5a Wood Tip Materials: Oak Notes: Sticks struck together <i>Hit</i></p>	Size: 40 MB	<p>Udu Drum BFD/Data/PER SouthAsian/Snare Udu Origin: West African Model: Udu Drum Materials: Clay <i>Hit - Knuckle</i> <i>Drag - Low</i> <i>Flam - Hand slap</i> <i>Rim - Bell strike</i> <i>SS - Scoop</i></p>	Size: 325 MB
<p>13" Timbale BFD/Data/PER Latin/Snare Timbale 13 Manufacturer: Slingerland Model: 13" Timbale (smaller drum) Materials: Steel shell <i>Hit - Center</i> <i>Drag - Drag</i> <i>Flam - Shell</i> <i>Rim - Rim Shot</i> <i>SS - Cross Stick</i></p>	Size: 777 MB	<p>Rain Stick BFD/Data/PER Misc/Rain Stick Origin: Chilean Model: Rain Stick Materials: Cactus filled with beads <i>Hit - Rain</i></p>	Size: 40 MB	<p>Grover 6" Triangle BFD/Data/PER Misc/Triangle Bronze Manufacturer: Grover Model: 6" Triangle Materials: Bronze <i>Hit - Ringing</i> <i>Alt - Muted</i></p>	Size: 833 MB	<p>Ludwig 9" Triangle BFD/Data/PER Misc/Triangle Large Manufacturer: Ludwig Model: 9" Triangle Materials: Chrome-plated steel <i>Hit - Ringing</i> <i>Alt - Muted</i></p>	Size: 737 MB
<p>14" Timbale BFD/Data/PER Latin/Snare Timbale 14 Manufacturer: Slingerland Model: 14" Timbale (larger drum) Materials: Steel shell <i>Hit - Center</i> <i>Drag - Drag</i> <i>Flam - Shell</i> <i>Rim - Rim Shot</i> <i>SS - Cross Stick</i></p>	Size: 662 MB		<p></p>				



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