

BACK IN TIME RECORDS

Sound Research & Development



Fusion Drums by kpr documentation and tutorial

Introduction

This turns your Fusion into a Drum Machine!

A complete set of 5 new acoustic drum kits, ready-to-use rhythms, additional drum pattern MIDI file and instructional tutorial PDF. **5 new drum kits:**

- Live Drum Kit
- Rock Kit
- Fusion Kit
- Jazz Kit
- 80s Pop Kit

All kits were recorded in a decent studio that is experienced in drums recording with all those famous microphones to capture the sounds perfectly. The mic positions were placed very closely to make the sound rather dry. This allows to add any room ambience with the Fusion's effects section or outboard devices during the mixdown process.

Controller convention

A specific and convenient Controller concept makes the sound totally versatile for all drum kits. Each kit follows the same convention with access to tone attack, mute, pitch and room ambience. Also you have always a suitable drum rhythm by simply hitting the Arp button.

Control Knob 1	Sound attack
Control Knob 2	Pitch
Control Knob 3	Reverb intensity
Control Knob 4	Echo intensity
Mod. Wheel	sound mute
Pitch Bend	Pitch up/down
SW1	Rhythm A/B change on/off
SW2	Latch function on/off
T1	Volume momentary
T2	Pitch momentary
T3	Rhythm fill in

Snares, Hihats and Ride Cymbals are provided in several dynamics for each drum kit, it allows a lively sound like a real drummer does it.

As there are several recordings especially for snares and hihats you can choose between several versions of the same drum kit, which is a very convenient handling. But even this is not all, the new "Fusion Drums by kpr" provides even more drums and percussion kits that are based on the Fusion's internal drums and percussion samples, always including ready-to-use rhythms just by hitting a button. Modern drum kits with many sound mappings for contemporary and classic music styles, they all are here and the Controller assignment follows the same convention as mentioned above. No extra learning curve! A comprehensive how-to instructional PDF is included that explains all instrument details of the drum kits and provides even a tutorial how to customize them for personal variations. Although all Kits provide ready-to-switch-on Drum Beats an additional MIDI file with 64 rhythms is part of the library too. Those beats are pretty long, sound very human and each beat has variations and several fill in parts.

Sample Listing

80s Pop Kit

Kick Dry 1
Kick Dry 2
Snare Dry 1
Snare Dry 2
Snare Dry 3
Snare Dry 4
Tom Low 1
Tom Low 2
Tom Mid 1
Tom Mid 2
Tom High
Hihat closed 1
Hihat closed 2
Hihat open 1
Hihat open 2
Hihat Foot Pedal
Ride Cymbal 1
Ride Cymbal 2
Ride Cymbal Cup
Crash Cymbal 1
Crash Cymbal 2
China Cymbal
Splash Cymbal

Fusion Kit

Kick Dry
Snare 1
Snare 2
Snare 3
Tom Low 1
Tom Low 2
Tom Mid 1
Tom Mid 2
Tom High
Hihat closed 1
Hihat closed 2
Hihat half open 1
Hihat half open 2
Hihat Foot Pedal
Ride Cymbal 1
Ride Cymbal Cup
Crash Cymbal 1
Crash Cymbal 2
Crash Cymbal 3
Crash Cymbal 4
China Cymbal

Jazz Kit

Kick 1
Kick 2
Snare 1
Snare 2
Snare 3
Snare 4
Rimshot
Tom Low
Tom Mid
Tom High
Hihat closed 1
Hihat closed 2
Hihat open 1
Hihat open 2
Hihat Foot Pedal
Ride Cymbal 1
Ride Cymbal 2
Crash Cymbal 1
Crash Cymbal 2
China Cymbal
Splash Cymbal

Rock Kit

Kick 1
Kick 2
Snare 1
Snare 2
Snare 3
Sidestick
Tom Low 1
Tom Low 2
Tom Mid 1
Tom Mid 2
Tom High
Hihat closed 1
Hihat closed 2
Hihat closed 3
Hihat half op 1
Hihat half op 2
Hihat open
Hihat Foot Pedal
Ride Cymbal Cup 1
Ride Cymbal Cup 2
Ride Cymbal Cup 3
Crash Cymbal 1
Crash Cymbal 2
China Cymbal
Splash Cymbal

Yamaha Live Kit

Kick 1
Kick 2
Snare 1
Snare 2
Snare 3
Snare 4
Sidestick
Tom Low 1
Tom Low 2
Tom Mid 1
Tom Mid 2
Tom High
Hihat closed 1
Hihat closed 2
Hihat open 1
Hihat open 2
Hihat Foot Pedal
Ride Cymbal 1
Ride Cymbal 2
Ride Cymbal 3
Crash Cymbal 1
China Cymbal
Splash Cymbal

Program Presets Listing

alphabetical order

80s Pop Kit 1
80s Pop Kit 2
Effects Kit 1 (WK} Bt 1
Effects Kit 1 (WK}
Effects Kit 2 (WK} Bt 1
Effects Kit 2 (WK}
Fusion Kit 1
Fusion Kit 1b
Fusion Kit 1c
Fusion Kit 2
Fusion Kit 3 Bt 10
Fusion Kit 3 Bt 11
Fusion Kit 3 Bt 2
Fusion Kit 3 Bt 3
Fusion Kit 3 Bt 4
Fusion Kit 3 Bt 5
Fusion Kit 3 Bt 6
Fusion Kit 3 Bt 7
Fusion Kit 3 Bt 8
Fusion Kit 3 Bt 9
Fusion Kit 3 Bt1
Jazz Kit 1
Jazz Kit 2
Modern Drum Kit 1
Modern Drum Kit 10 Bt 1
Modern Drum Kit 10 Bt 10
Modern Drum Kit 10 Bt 11
Modern Drum Kit 10 Bt 12
Modern Drum Kit 10 Bt 2
Modern Drum Kit 10 Bt 3
Modern Drum Kit 10 Bt 4
Modern Drum Kit 10 Bt 5
Modern Drum Kit 10 Bt 6
Modern Drum Kit 10 Bt 7
Modern Drum Kit 10 Bt 8
Modern Drum Kit 10 Bt 9
Modern Drum Kit 11 Bt 1
Modern Drum Kit 11 Bt 2
Modern Drum Kit 11 Bt 3
Modern Drum Kit 11 Bt 4
Modern Drum Kit 12 Bt 1
Modern Drum Kit 12 Bt 2
Modern Drum Kit 12 Bt 3
Modern Drum Kit 12 Bt 4
Modern Drum Kit 2
Modern Drum Kit 3
Modern Drum Kit 4
Modern Drum Kit 5
Modern Drum Kit 6
Modern Drum Kit 7
Modern Drum Kit 8 Bt 1
Modern Drum Kit 8 Bt 10
Modern Drum Kit 8 Bt 11
Modern Drum Kit 8 Bt 12

Modern Drum Kit 8 Bt 13
Modern Drum Kit 8 Bt 14
Modern Drum Kit 8 Bt 15
Modern Drum Kit 8 Bt 16
Modern Drum Kit 8 Bt 17
Modern Drum Kit 8 Bt 2
Modern Drum Kit 8 Bt 3
Modern Drum Kit 8 Bt 4
Modern Drum Kit 8 Bt 5
Modern Drum Kit 8 Bt 6
Modern Drum Kit 8 Bt 7
Modern Drum Kit 8 Bt 8
Modern Drum Kit 8 Bt 9
Modern Drum Kit 9 Bt 1
Modern Drum Kit 9 Bt 10
Modern Drum Kit 9 Bt 11
Modern Drum Kit 9 Bt 12
Modern Drum Kit 9 Bt 13
Modern Drum Kit 9 Bt 14
Modern Drum Kit 9 Bt 15
Modern Drum Kit 9 Bt 16
Modern Drum Kit 9 Bt 17
Modern Drum Kit 9 Bt 18
Modern Drum Kit 9 Bt 2
Modern Drum Kit 9 Bt 3
Modern Drum Kit 9 Bt 4
Modern Drum Kit 9 Bt 5
Modern Drum Kit 9 Bt 6
Modern Drum Kit 9 Bt 7
Modern Drum Kit 9 Bt 8
Modern Drum Kit 9 Bt 9
Rock Kit 1
Rock Kit 1b
Rock Kit 1c
Rock Kit 2
Rock Kit 3
Rock Kit 4 Bt1 10
Rock Kit 4 Bt1 11
Rock Kit 4 Bt1 12
Rock Kit 4 Bt1 13
Rock Kit 4 Bt1 14
Rock Kit 4 Bt1 15
Rock Kit 4 Bt1 16
Rock Kit 4 Bt1 17
Rock Kit 4 Bt1 18
Rock Kit 4 Bt1 19
Rock Kit 4 Bt1 2
Rock Kit 4 Bt1 3
Rock Kit 4 Bt1 4
Rock Kit 4 Bt1 5
Rock Kit 4 Bt1 6
Rock Kit 4 Bt1 7
Rock Kit 4 Bt1 8
Rock Kit 4 Bt1 9
Rock Kit 4 Bt1
Studio Kit 1 Bt 1
Studio Kit 1 Bt 2
Studio Kit 1

Studio Kit 1b Bt 1
Studio Kit 1b
Y-Live Kit 1
Y-Live Kit 2 Bt 1
Y-Live Kit 2 Bt 10
Y-Live Kit 2 Bt 11
Y-Live Kit 2 Bt 12
Y-Live Kit 2 Bt 13
Y-Live Kit 2 Bt 2
Y-Live Kit 2 Bt 3
Y-Live Kit 2 Bt 4
Y-Live Kit 2 Bt 5
Y-Live Kit 2 Bt 6
Y-Live Kit 2 Bt 7
Y-Live Kit 2 Bt 8
Y-Live Kit 2 Bt 9

MIDI Note numbers

The mapping always follows the GM standard, so you can even change the kit during a song and the concerned sound types (kick, snare, toms, cymbals, hihats) will remain as they are located on the same keys. Not satisfied with a kit in a song? Just change the Preset and get a better one, no further editing necessary!

Note: The Fusion starts always one octave lower than listed below.

B1	Kick Drum 2
C2	Kick Drum 1
C#2	Side Stick
D2	Snare Drum 1
D#2	Hand Clap
E 2	Snare Drum 2
F2	Low Tom 2
F#2	Closed Hihat
G2	Low Tom 1
G#2	Pedal Hihat
A2	Mid Tom 2
A#2	Open Hihat
B2	Mid Tom 1
C3	High Tom 2
C#3	Crash Cymbal 1
D3	High Tom 1
D#3	Ride Cymbal 1
E3	China Crash
F3	Ride Bell/Cup
F#3	Tambourine
G3	Splash Cymbal
G#3	Cowbell
A3	Crash Cymbal 2
A#3	Vibraslap
B3	Ride Cymbal 2
C4	Bongo High
C#4	Bongo Low
D4	Conga High, muted
D#4	Conga High, open
E4	Conga Low
F4	Timbale High
F#4	Timbale Low
G4	Agogo High
G#4	Agogo Low
A4	Cabasa
A#4	Maracas
B4	Whistle High, short
C5	Whistle Low, long
C#5	Guiro, short
D5	Guiro, long
D#5	Claves
E5	Woodblock High
F5	Woodblock Low
F#5	Cuica, muted
G5	Cuica, open
G#5	Triangle, muted
A5	Triangle, open
A#5	Shaker

B5	Jingle Bell
C6	Bell Tree
C#6	Castanets
D6	Surdo, muted
D#6	Surdo, open
E6	Conga Hig, slap
F6	Gong, small
F#6	Gong, big
G6	Pandiero, muted
G#6	Pandiero, open
A6	Tamborim
A#6	Chime Tree
B6	Caxixi

Drum Machine Tutorial

The Arpeggiator works as drum machine engine. You can use the Controllers to switch the Fill and rhythm A/B variations to on/off positions. Pressing the Edit button opens the access to all details, so if you select the Arpeggiator by hitting the ARP button the rhythm details can be modified.

Press Edit Arp and you will see the Pattern Length, press Playback and you have the control for Step, Octave Range, Center. Try out the different settings to get a clear picture of the options.

The Fusion is not only a synthesizer but also a drum machine with synthesizer features. And a very powerful one too. When you are exploring it's Drum options it will get you the feeling of having a brandnew instrument, without paying extra money for it and already have it at home right now. Just by looking into the deep of the Fusion's sound modifier options.

Let's start with a Standard Drum kit, you can find it in the factory ROM Program presets under the name "Standard Set" O1 (112) in Bank 1. Pressing the Edit button allows you to view the current settings. There is nothing special to see on the first view, the instrument mode is assigned to Drum and this means that you are using samples for the kit. 64 different ones can be assigned to the keyboard keys (MIDI notes) and by pressing the concerned key you can listen to each sound. It is possible to alter the sound by changing the Pitch, using the Sample Start option which gives the option for a different tone attack and one of the most important features is the chance to assign a specific Filter setting for each Drum sound. By the way: A Drum sound might be stacked too, the Fusion allows 4 different samples for one Drum sound. Keep in mind, that you can modulate them and also play them with the various dynamic options (Velocity, Crossfade, Envelope, etc.). Even to reverse them is possible! Also you can choose the Loop Start and End positions.

Now for the extra functions. Each Drum sound can be modulated with a specific action. Just switch to the Mod Page and select any Source Modulation like Envelope and as Destination any of the Drum kits Oscillators (= drum sounds). Having this you can control this Envelope Modulation with any Controller in realtime: Add a Mod (Mod Wheel, Control Knob, etc.) and select as source the previously assigned Envelope with

Destination Amount # xx and set a value you like. Now you can control this specific Drum sound parameter in realtime and this means that you can do it live with your hands and even record it in a extra track with your DAW.

This is just the beginning. As soon as you created or modified a existing to a own Drum kit you can import it to the Mix Mode. There you can assign individual effects, and this is a great chance to do really powerful Drum tracks. Some instruments should remain dry but with additional Compressor. Others are to spread a set of them in a stereo field by assigning them with balance amounts. Finally you can add Insert and Bus Effects to enhance those big snares or toms. Also you can assign the Drum Machine w/rhythm just to the lowest keys and keep the remaining keyboard for other sounds.

Also the Fusion houses VA and FM synthesis and both are great for synthetic percussions. Check your existing factory Presets and also any others you have purchased from us or downloaded free from Hollow Sun and import them to the Mix too. They are perfectly suitable as addition to your custom Drum kit.