



MPC STUDIO

User Guide

English

Manual Version 2.8

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Introduction

Thank you for purchasing the MPC Renaissance or MPC Studio. At Akai Professional, we know how serious music is to you. That's why we design our equipment with only one thing in mind—to make your performance the best it can be.

This user guide explains how to create music using **MPC Renaissance** and **MPC Studio**. There is similar documentation available for MPC products that use a touchscreen and for the MPC software application itself.

Welcome to the MPC family.

Akai Professional

System Requirements & Product Support

For the latest information about this product (system requirements, compatibility information, etc.) and product registration, visit **akaipro.com**.

For additional support, visit akaipro.com/support.

About This User Guide

This manual should help you get familiar with using your **MPC Renaissance** or **MPC Studio**. For consistency, the terminology throughout is based on the MPC nomenclature. We also used specific formatting to indicate particular topics of significance:

Important/Note/Tip: Important or helpful information on a given topic.

Names of buttons, controls, parameters, settings, and other options are written in **bold** characters throughout the manual.

Examples: Press the Play Start button.

Turn Q-Link Knob 4.

Tap the **Mute** button.

The Velocity ranges from 0 to 127.

Set the Sample Play selector to One Shot.

Tap **BPM**, and then use the numeric keypad to enter **120** as the tempo.

Some parts of this manual refer to other relevant chapters or sections, which are cited in **bold**, **italic blue** characters. Click the text to skip immediately to that section.

Examples: Read the Important Notes section before proceeding.

For more information about installing the necessary drivers and software, see Setup > 2. Installation.

To learn more about using send effects, see General Features > Effects > Send/Return Effects.

Important Notes

Read the included safety & warranty manual before using your MPC hardware.

Before getting started and connecting devices to your MPC hardware or turning the hardware on/off, make sure all devices are switched off.

Important:

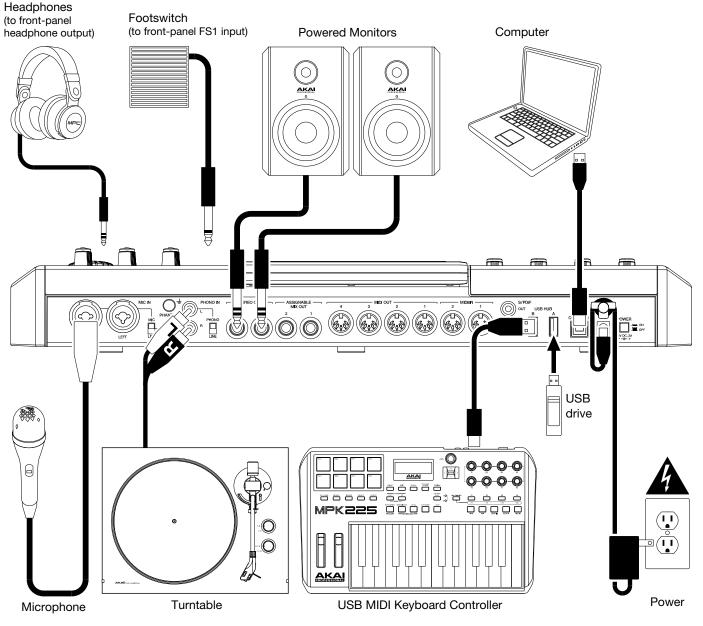
Before installing the MPC software, make sure your computer meets the system requirements described at **akaipro.com**. This applies whether you'll use MPC software as your host software or as a plugin in another digital audio workstation (DAW).

Before connecting your MPC hardware to your computer, install the drivers and software. Visit **akaipro.com** to download the latest versions. Refer to the **2**. *Installation* section for more information.

Setup

1. Connection

Here is just an example of how to use MPC Renaissance in your setup. Items not listed under *Introduction* > *Box Contents* of your included quickstart guide are sold separately.



2. Installation

Follow these steps to download and install the required drivers & software:

- 1. Go to **akaipro.com** and register your product. If you don't have an Akai Professional account yet, you will be prompted to create one.
- 2. In your Akai Professional account, download the MPC software package.
- 3. Open the file and double-click the installer application.
- 4. Follow the on-screen instructions to complete the installation.

Note: By default, the MPC software will be installed in [your hard drive]\Program Files\Akai Pro\MPC (Windows[®]) or Applications (macOS[®]). You can also create a shortcut on your Desktop.

3. Getting Started

- 1. Power on your MPC hardware.
- 2. On your computer, open the **MPC** software.
- 3. Follow the on-screen instructions to authorize your version of MPC.
- 4. You will need an iLok account to complete this. You can create an account at ilok.com.

Make a note of the PACE code in your account, and enter it when asked for it during the authorization/unlock process.

5. In the MPC software, click the **Edit** menu, and select **Preferences**. Click the **Audio** tab and select the sound card you want to use. Click **OK** when you are done.

Important:

We highly recommend using your MPC hardware's sound card (**Akai Pro MPC Renaissance/Studio ASIO**). If you need to use the internal sound card on a Windows computer, we recommend downloading the latest ASIO4ALL driver at **asio4all.com**.

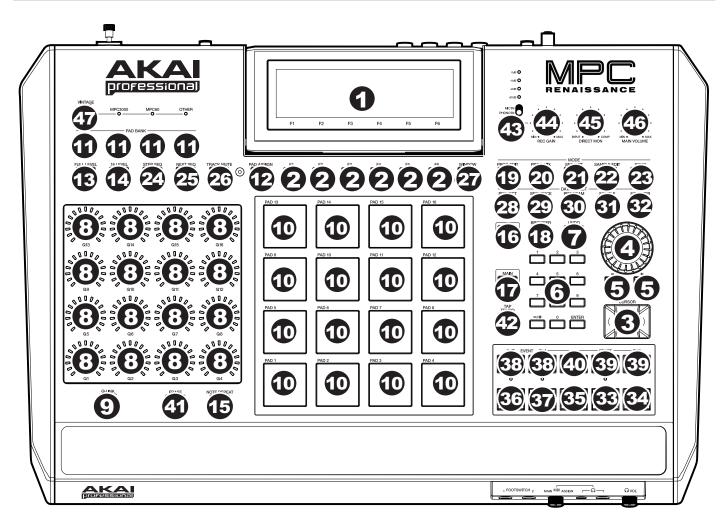
To view the MPC software user guide, click the Help menu, select MPC Help, and select MPC User Manual.

Features

This chapter explains the features and functions of each MPC model with an LCD screen: *MPC Renaissance* and *MPC Studio*.

MPC Renaissance

Top Panel



Navigation & Data Entry Controls

Display: This LCD shows all the information relevant to MPC Renaissance's current operation. Much of this
information is also shown in the software. Use the cursors to navigate through the display, and use the data
dial, and -/+ buttons to adjust the currently selected setting/parameter. Use the Mode buttons to change what
page is shown, and use the function buttons to change what tab is shown.

Tip: You can adjust the display contrast by holding down Shift and turning the data dial.

- 2. **Function Buttons**: Press one of these buttons to select its corresponding tab, shown above the button in the display.
- 3. **Cursors**: Press these buttons to navigate through the fields of menus and options shown on the screen.
- 4. **Data Dial**: Use this dial to scroll through the available menu options or adjust the parameter values of the selected field on the screen.
- 5. -/+: Press these buttons to increase or decrease the value of the selected field on the screen.

- 6. **Numeric Keypad**: If the selected field on the screen is a number, press these numbered buttons as you would on a standard numeric keypad to enter a value. Press the keypad's **Enter** to enter it.
- 7. Undo/Redo: Press this button to undo your last action.

Press and hold **Shift** and press this button to redo the last action you undid.

Pad & Q-Link Controls

- 8. **Q-Link Knobs**: Turn these touch-sensitive knobs to adjust various parameters and settings. The LEDs surrounding each knob show the knob's current position.
- Q-Link Trigger: Press this button to cycle through the three global automation states: Off, Read (solidly lit), and Write (flashing). See Operation > General Features > Automation to learn more about this.
- 10. **Pads**: Press these pads to trigger drum hits or other samples in your software. The pads are velocity-sensitive and pressure-sensitive, which makes them very responsive and intuitive to play. The pads will light up different colors, depending on how hard you play them (ranging from yellow at a low velocity to red at the highest velocity). You can also customize their colors.
- 11. Pad Bank: Press these buttons to access Pad Banks A–D.

Press and hold **Shift** while pressing these buttons to access Pad Banks E–H. Alternatively, double-press one of these buttons.

 Pad Assign/Pad Copy: Press this button to assign samples and specific colors to your pads in each program. See Operation > General Features > Pad Assign to learn more about this.

You can also use this button to copy the samples and parameters from one pad to another. Hold **Shift** and press this button to open the **Copy Pad** window. In the **From Pad** field, press the "source" pad. Use the **cursors** to select the **To Pads** field, and then press the "destination" pads. Press **F5** (**Do It**)—the samples and parameters will be copied automatically from the source pad to the destination pad.

13. Full Level/Half Level: Press this button to activate or deactivate the Full Level feature. When activated, the pads will always trigger their samples at the maximum velocity (127), regardless of how much force you use.

Press and hold **Shift** and then press this button to activate or deactivate the Half Level feature. When activated, the pads will always trigger their samples at half-velocity (**64**).

- 14. 16 Level: Press this button to activate/deactivate 16 Level. When activated, the last pad that was hit will be temporarily copied to all 16 pads. The pads will now output the same note number as the initial pad, but a selectable parameter will be fixed at values that increase as the pad numbers increase (e.g., Pad 1 is the minimum, Pad 16 is the maximum), regardless of how hard you press them. In the screen that appears, use the Type selector to choose the parameter: Velocity, Tune, Filter, Layer, Attack, or Decay. See Operation > General Features > 16 Level to learn more.
- 15. **Note Repeat/Latch**: Press and hold this button, and then press a pad to trigger that pad's sample repeatedly. The rate is based on the current tempo and Time Correct settings.

Press and hold **Shift** and then press this button to "latch" the Note Repeat feature. When latched, you do not have to hold the Note Repeat button for it to be activated. Press **Note Repeat** once more to unlatch it.



Mode & View Controls

Note: See Operation > Modes to learn about the different modes you can access with these controls.

16. Shift: Press and hold this button to access some buttons' secondary functions (indicated by red writing).

Double-press this button to see which buttons have secondary functions—the buttons will flash for a few seconds.

17. Main/Track: Press this button to enter Main Mode.

Press and hold **Shift** and press this button to enter the Track View.

18. **Browser/Save**: Press this button to view the Browser. The Browser lets you navigate your computer's internal hard disk to load samples, sequences, songs, etc. Using filter buttons and user-definable folders, you can easily adapt it to your workflow. You can also preview samples before loading them.

Press and hold **Shift** and press this button to save the current project (including its samples, programs, sequences, and songs).

19. **Prog Edit/Q-Link**: Press this button to view Program Edit Mode, which contains all parameters for editing your programs.

Press and hold **Shift** and press this button to enter Q-Link Edit Mode, where you can determine what the Q-Link knobs control in other modes.

20. **Prog Mix/Track Mix**: Press this button to view the Pad Mixer where you can set a program's levels, stereo panning, routing, and effects.

Press and hold **Shift** and press this button to enter the Channel Mixer where you can set levels, stereo panning, and other settings for your tracks, programs, returns, submixes, and masters.

Important: Prog Mix on your MPC hardware corresponds to the **Pad Mixer** in the MPC software. Similarly, **Track Mix** (or **Shift+Prog Mix/Track Mix**) on your MPC hardware corresponds to the **Channel Mixer** in the MPC software. This is due to the functionality changing as the software has evolved.

21. Seq Edit/Effects: Press this button to view the Edit Sequence screen where you can create or edit sequences.

Press and hold **Shift** and press this button to enter the Effects page, where you can select and route effects as well as edit their parameters.

22. **Sample Edit/Sample Rec**: Press this button to view Sample Edit Mode where you can edit your samples using various functions and processes.

Press and hold **Shift** and press this button to view the Sampler where you can record audio samples to use in your projects.

23. **Song/Other**: Press this button to enter Song Mode where you can arrange sequences in a specific order and/or repetition to create songs. You can edit the structure of a song during playback for easy, on-the-fly composing.

Press and hold **Shift** and press this button to enter MIDI Control Mode, which lets you edit various MIDI parameters for the pads, Q-Link knobs, and certain buttons on your hardware.

- 24. **Step Seq**: Press this button to view the Step Sequencer where you can create or edit sequences by using the pads as "step buttons," simulating the experience of a traditional step-sequencer-style drum machine.
- 25. **Next Seq**: Press this button to view Next Sequence Mode where you can trigger different sequences simply by playing the pads. This is useful for live performances, letting you change a song's structure in real time.
- 26. **Track Mute/Pad Mute**: Press this button to view Track Mute Mode where you can easily mute tracks within a sequence or set mute groups for each track.

Press and hold **Shift** and press this button to view Pad Mute Mode where you can easily mute pads within a program or set mute groups for each pad within a program.

27. Window/Full Screen: When this button is lit, it means the selected field in the display contains additional parameters in a sub-window; press this button to access them. Use the function buttons, cursors, and data dial or -/+ buttons to navigate the sub-window.

Press and hold **Shift** and press this button to switch between Full Screen and Half Screen Modes in the software. In Full Screen Mode, the workspace occupies the whole window. In Half Screen Mode, the parameter controls (Q-Link knobs, pads, sequence and track information, project information, etc.) are shown underneath the workspace.

- 28. **Project/Folder 1**: Press this button to view only project files in the Browser. Press and hold **Shift** and press this button to select the Browser's Folder 1 shortcut.
- 29. Sequence/Folder 2: Press this button to view only sequence files in the Browser. Press and hold Shift and press this button to select the Browser's Folder 2 shortcut.
- 30. **Program/Folder 3**: Press this button to view only program files in the Browser. Press and hold **Shift** and press this button to select the Browser's Folder 3 shortcut.
- 31. **Sample/Folder 4**: Press this button to view only sample files in the Browser. Press and hold **Shift** and press this button to select the Browser's Folder 4 shortcut.
- 32. No Filter/Folder 5: Press this button to view all files in the Browser. Press and hold Shift and press this button to select the Browser's Folder 5 shortcut.

Transport & Recording Controls

- 33. Play: Press this button to play the sequence from the playhead's current position.
- 34. Play Start: Press this button to play the sequence from its start point.
- 35. **Stop**: Press this button to stop playback. You can double-press this button to silence audio that is still sounding once a note stops playing. Quickly pressing this button three times will act as a "MIDI panic" and shut off all voices and stop all audio processing.
- 36. **Rec**: Press this button to record-arm the sequence. Press **Play** or **Play Start** to start recording. Recording in this way (as opposed to using **Overdub**) erases the events of the current sequence. After the sequence plays through once while recording, Overdub will be enabled.
- 37. **Overdub**: Press this button to enable Overdub. When enabled, you can record events in a sequence without overwriting any previously recorded events. You can enable Overdub before or during recording.
- 38. </> (Event |</>): Use these buttons to move the playhead left or right, one step at a time.

Press and hold **Locate** and press one of these buttons to move the playhead to the previous/next event in the sequence grid.

39. <</>> (Start/End): Use these buttons to move the playhead left or right, one bar at a time.

Press and hold **Locate** and press one of these buttons to move the playhead to the start or end of the sequence grid.

- 40. Locate: Press and hold this button to activate the secondary functions of the </> and <</> buttons (i.e., Event |</>| and Start/End, respectively).
- 41. Erase: As a sequence is playing, press and hold this button and then press a pad to delete the note event for that pad at the current playback position. This is a quick way to delete note events from your sequence without having to stop playback. See *Operation* > *General Features* > *Erase* to learn more.
- 42. Tap Tempo: Press this button in time with the desired tempo to enter a new tempo (in BPM). You can set how many taps are required in the Preferences (see *Operation > General Features > Preferences* to learn how to do this).

Press and hold **Shift** and press this button to set whether the currently selected sequence follows its own tempo or a master tempo.

I/O & Level Controls

- 43. Phono/Line Switch: Use this switch to select the Mic In or Phono In jacks on the rear panel. If you are using a mic or other line-level audio source connected to the Mic In jacks, select Mic In. If you are using a phono-level device like a turntable connected to the Phono In jacks, select Phono In.
- 44. Rec Gain: Use this knob to adjust the gain of the incoming signal from the inputs (Mic In Left/Right or Phono In L/R) on the rear panel. Use the level meter above the Mic In/Phono In switch to check the recording level. Be careful when setting this knob at higher levels, which can cause the signal to distort.

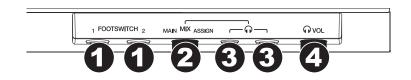
45. Direct Mon: Turn this knob to adjust the balance between the input and output signals in the headphones.

Input corresponds to the input signal—all devices connected to the inputs on the front and rear panels. While recording, you can turn this knob all the way to **Input** for zero-latency direct monitoring.

Comp corresponds to the output signal—the signal sent from the **Stereo Out L/R** outputs on the rear panel. When you are **not** recording, we recommend turning this knob all the way to the **Comp** position to hear the full-volume playback signal.

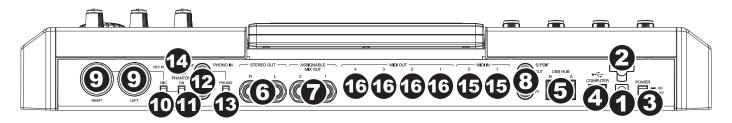
- 46. Main Volume: Turn this knob to adjust the volume level of the Stereo Out L/R outputs.
- 47. **Vintage Mode**: Press this to toggle through the available Vintage Modes. The MPC3000 and MPC60 settings emulate the sounds of those classic MPCs, while the **Other** setting emulates the sound of vintage sampling drum machines. When none of the LEDs are lit, Vintage Mode is off.

Front Panel



- 1. Footswitch Inputs (FS 1/2) (1/4" / 6.35 mm): Connect optional 1/4" (6.35 mm) TS footswitches to these inputs.
- 2. Mix: Turn this knob to adjust the balance between the Main and Assign signals in your headphones. Main is the signal sent from the Stereo Out L/R outputs. Assign is the signal sent from the Assignable Mix Outs 1/2.
- 3. **Headphone Outputs** (1/8" or 1/4" / 3.5 mm or 6.35 mm): Connect your headphones (not included) to either or both of these standard stereo outputs. Use the **Mix** knob to determine what signal is heard in the headphones. Turn the **Headphone Volume** knob to set the volume level.
- 4. **Headphone Volume**: Turn this knob to adjust the volume of the headphone outputs.

Rear Panel



- 1. **Power Input**: Use the included power adapter (12 VDC, 2 A, center-positive) to connect MPC Renaissance to a power outlet. This must be connected to a power outlet in order for MPC Renaissance to power on.
- 2. Power Adapter Restraint: Secure the power adapter cable to this restraint to prevent it from accidentally unplugging.
- 3. Power Switch: Press this button to turn MPC Renaissance's power on or off.
- 4. **Computer USB Port** (USB Type B): Use the included USB cable to connect this high-retention-force USB port to an available USB port on your computer. This connection allows MPC Renaissance to send/receive MIDI and audio data to/from the MPC software on your computer.
- 5. **USB Hub Ports A/B** (USB Type A): Connect USB flash drives or MIDI controllers to these high-speed USB 2.0 ports. These USB ports supply power to connected USB devices and can also be used to receive MIDI messages from external USB MIDI devices, which will be sent to the computer.
- 6. Stereo Out L/R (1/4" / 6.35 mm): Use standard 1/4" (6.35 mm) TRS cables to connect these outputs to your speaker system. The signal sent out of these outputs is the master mix. Turn the **Main Volume** knob to set their volume.

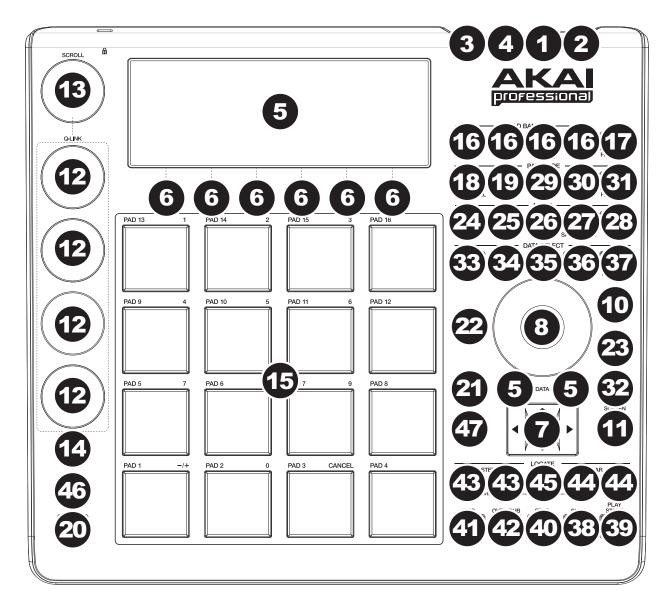
Tip: To route a program to these outputs, set its routing to Out 1,2 in the Channel Mixer when the Mixer field is set to Programs. See Operation > Modes > Channel Mixer to learn more about this.

- 7. Assignable Mix Out 1/2 (1/4" / 6.35 mm): Use standard 1/4" (6.35 mm) TRS cables to connect these outputs to an external mixer. The signal sent from these outputs is full-volume (0 dB).
 Tip: To route a program to these outputs, set its routing to Out 3,4 in the Channel Mixer when the Mixer field is set to Programs. See Operation > Modes > Channel Mixer to learn more about this.
- 8. S/PDIF In/Out: Use standard RCA cables to connect these jacks to devices that can send/receive digital audio.
- 9. Mic In Left/Right (XLR or 1/4" / 6.35 mm): Use standard XLR or 1/4" (6.35 mm) TRS cables to connect these inputs to audio sources (microphone, mixer, synthesizer, etc.). Turn the **Rec Gain** knob to set the input level.
- 10. Mic/Line: Set this switch appropriately for the device you connected to the Mic In Left/Right inputs. If your sound source is a microphone, set it to Mic. If your sound source is a line-level device, like an external mixer or keyboard, set it to Line.
- 11. **Phantom Power**: This switch activates and deactivates phantom power for the **Mic In Left/Right** inputs. When activated, +48V of phantom power will be supplied to both inputs. Note that most dynamic microphones do **not** require phantom power, while most condenser microphones **do**. Refer to your microphone's documentation to check if it needs phantom power.
- 12. Phono In L/R (1/4" / 6.35 mm or RCA): Use standard 1/4" (6.35 mm) TRS cables or stereo RCA cables to connect these inputs to audio sources (mixer, turntable, synthesizer, etc.). To use the 1/4" (6.35 mm) inputs, set the Phono/Line switch to Line. To use the RCA inputs, set the Phono/Line switch to Phono. Turn the Rec Gain knob to set their input levels.
- 13. **Phono/Line**: Set this switch appropriately for the device you connected to the **Phono In L/R** inputs. If your sound source is a phono-level turntable, set it to **Phono**. If your sound source is a line-level device, like an external mixer or keyboard, set it to **Line**.
- 14. **Grounding Terminal**: If you are sending a phono-level turntable signal to the **Phono In L/R** inputs and are hearing a low hum or buzz, it could mean that the turntable is not grounded. If the turntable has a grounding wire, connect it to this terminal.

Note: Some turntables have a grounding wire built into the RCA connection and, therefore, nothing needs to be connected to the grounding terminal.

- 15. **MIDI In**: Use standard 5-pin MIDI cables to connect these inputs to the MIDI outputs of optional external MIDI devices.
- 16. **MIDI Out**: Use standard 5-pin MIDI cables to connect these outputs to the MIDI inputs of optional external MIDI devices.

MPC Studio



Power & I/O

- 1. Power Switch: Press this button to turn MPC Studio's power on or off.
- Computer USB Port (USB Type B): Use the included USB cable to connect this high-retention-force USB port to an available USB port on your computer. This connection allows MPC Studio to send/receive MIDI and audio data to/from the MPC software on your computer.
- 3. **MIDI In**: Use standard 5-pin MIDI cables to connect these inputs to the MIDI outputs of optional external MIDI devices.

Important: Do **not** connect audio devices (e.g., headphones, monitors, etc.) to the **MIDI In**. Use the included 1/8"-to-5-pin adapters to connect MIDI devices only.

4. **MIDI Out**: Use standard 5-pin MIDI cables to connect these outputs to the MIDI inputs of optional external MIDI devices.

Important: Do **not** connect audio devices (e.g., headphones, monitors, etc.) to the **MIDI Out**. Use the included 1/8"-to-5-pin adapters to connect MIDI devices only.



Navigation & Data Entry Controls

5. **Display**: This LCD shows all the information relevant to MPC Studio's current operation. Much of this information is also shown in the software. Use the **cursors** to navigate through the display, and use the **data dial**, and -/+ buttons to adjust the currently selected setting/parameter. Use the **Mode** buttons to change what page is shown, and use the **function buttons** to change what tab is shown.

Tip: You can adjust the display contrast by holding down Shift and turning the data dial.

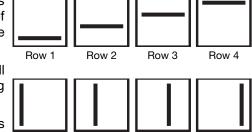
- 6. **Function Buttons**: Press one of these buttons to select its corresponding tab, shown above the button in the display.
- 7. Cursors: Press these buttons to navigate through the fields of menus and options shown on the screen.
- 8. **Data Dial**: Use this dial to scroll through the available menu options or adjust the parameter values of the selected field on the screen.
- 9. -/+: Press these buttons to increase or decrease the value of the selected field on the screen.
- 10. **Numeric**: If the selected field on the screen is a number, press and hold this button, and use the **pads** as you would on a standard numeric keypad to enter a value. The pads' values are written above in **green** and will be lit **green** while as you press and hold this button.
- 11. Undo/Redo: Press this button to undo your last action.

Press and hold Shift and press this button to redo the last action you undid.

Pad & Q-Link Controls

12. **Q-Link Knobs**: Turn these touch-sensitive knobs to adjust various parameters and settings. The knobs can control one column or row of parameters at a time. Use the **Scroll Knob** above them to change which column or row of parameters they currently control.

In modes where the display shows a 4x4 array of parameters, you will see an additional indicator on the top or left side of the array, indicating the currently controlled row/column.



Column 2

Column 3

Column 4

Column 1

- 13. **Scroll**: Turn this knob to change which column or row of parameters the **Q-Link knobs** currently control.
- Q-Link Trigger: Press this button to cycle through the three global automation states: Off, Read (solidly lit), and Write (flashing). See Operation > General Features > Automation to learn more about this.
- 15. **Pads**: Press these pads to trigger drum hits or other samples in your software. The pads are velocity-sensitive and pressure-sensitive, which makes them very responsive and intuitive to play. The pads will light up different colors, depending on how hard you play them (ranging from yellow at a low velocity to red at the highest velocity). You can also customize their colors.
- 16. **Pad Bank**: Press these buttons to access Pad Banks A–D.

Press and hold **Shift** while pressing these buttons to access Pad Banks E–H. Alternatively, double-press one of these buttons.

17. **Pad Assign/Pad Copy**: Press this button to assign samples and specific colors to your pads in each program. See *Operation* > *General Features* > *Automation* to learn more about this.

You can also use this button to copy the samples and parameters from one pad to another. Hold **Shift** and press this button to open the **Copy Pad** window. In the **From Pad** field, press the "source" pad. Use the **cursors** to select the **To Pads** field, and then press the "destination" pads. Press **F5** (**Do It**)—the samples and parameters will be copied automatically from the source pad to the destination pad.

18. Full Level/Half Level: Press this button to activate or deactivate the Full Level feature. When activated, the pads will always trigger their samples at the maximum velocity (127), regardless of how much force you use.

Press and hold **Shift** and then press this button to activate or deactivate the Half Level feature. When activated, the pads will always trigger their samples at half-velocity (**64**).

- 19. 16 Level: Press this button to activate/deactivate 16 Level. When activated, the last pad that was hit will be temporarily copied to all 16 pads. The pads will now output the same note number as the initial pad, but a selectable parameter will be fixed at values that increase as the pad numbers increase (e.g., Pad 1 is the minimum, Pad 16 is the maximum), regardless of how hard you press them. In the screen that appears, use the Type selector to choose the parameter: Velocity, Tune, Filter, Layer, Attack, or Decay. See Operation > General Features > 16 Level to learn more.
- 20. **Note Repeat/Latch**: Press and hold this button, and then press a pad to trigger that pad's sample repeatedly. The rate is based on the current tempo and Time Correct settings.

Press and hold **Shift** and then press this button to "latch" the Note Repeat feature. When latched, you do not have to hold the Note Repeat button for it to be activated. Press **Note Repeat** once more to unlatch it.

Mode & View Controls

Note: See **Operation** > **Modes** to learn about the different modes you can access with these controls.

21. Shift: Press and hold this button to access some buttons' secondary functions (indicated by red writing).

Double-press this button to see which buttons have secondary functions—the buttons will flash for a few seconds.

22. Main/Track: Press this button to enter Main Mode.

Press and hold **Shift** and press this button to enter the Track View.

23. **Browser/Save**: Press this button to view the Browser. The Browser lets you navigate your computer's internal hard disk to load samples, sequences, songs, etc. Using filter buttons and user-definable folders, you can easily adapt it to your workflow. You can also preview samples before loading them.

Press and hold **Shift** and press this button to save the current project (including its samples, programs, sequences, and songs).

24. **Prog Edit/Q-Link**: Press this button to view Program Edit Mode, which contains all parameters for editing your programs.

Press and hold **Shift** and press this button to enter Q-Link Edit Mode, where you can determine what the Q-Link knobs control in other modes.

25. **Prog Mix/Track Mix**: Press this button to view the Pad Mixer where you can set a program's levels, stereo panning, routing, and effects.

Press and hold **Shift** and press this button to enter the Channel Mixer where you can set levels, stereo panning, and other settings for your tracks, programs, returns, submixes, and masters.

Important: Prog Mix on your MPC hardware corresponds to the **Pad Mixer** in the MPC software. Similarly, **Track Mix** (or **Shift+Prog Mix/Track Mix**) on your MPC hardware corresponds to the **Channel Mixer** in the MPC software. This is due to the functionality changing as the software has evolved.

26. Seq Edit/Effects: Press this button to view the Edit Sequence screen where you can create or edit sequences.

Press and hold **Shift** and press this button to enter the Effects page, where you can select and route effects as well as edit their parameters.

27. **Sample Edit/Sample Rec**: Press this button to view Sample Edit Mode where you can edit your samples using various functions and processes.

Press and hold **Shift** and press this button to view the Sampler where you can record audio samples to use in your projects.

28. **Song/Other**: Press this button to enter Song Mode where you can arrange sequences in a specific order and/or repetition to create songs. You can edit the structure of a song during playback for easy, on-the-fly composing.

Press and hold **Shift** and press this button to enter MIDI Control Mode, which lets you edit various MIDI parameters for the pads, Q-Link knobs, and certain buttons on your hardware.

- 29. **Step Seq**: Press this button to view the Step Sequencer where you can create or edit sequences by using the pads as "step buttons," simulating the experience of a traditional step-sequencer-style drum machine.
- 30. **Next Seq**: Press this button to view Next Sequence Mode where you can trigger different sequences simply by playing the pads. This is useful for live performances, letting you change a song's structure in real time.

31. **Track Mute/Pad Mute**: Press this button to view Track Mute Mode where you can easily mute tracks within a sequence or set mute groups for each track.

Press and hold **Shift** and press this button to view Pad Mute Mode where you can easily mute pads within a program or set mute groups for each pad within a program.

32. Window/Full Screen: When this button is lit, it means the selected field in the display contains additional parameters in a sub-window; press this button to access them. Use the function buttons, cursors, and data dial or -/+ buttons to navigate the sub-window.

Press and hold **Shift** and press this button to switch between Full Screen and Half Screen Modes in the software. In Full Screen Mode, the workspace occupies the whole window. In Half Screen Mode, the parameter controls (Q-Link knobs, pads, sequence and track information, project information, etc.) are shown underneath the workspace.

- 33. **Project/Folder 1**: Press this button to view only project files in the Browser. Press and hold **Shift** and press this button to select the Browser's Folder 1 shortcut.
- 34. **Sequence/Folder 2**: Press this button to view only sequence files in the Browser. Press and hold **Shift** and press this button to select the Browser's Folder 2 shortcut.
- 35. **Program/Folder 3**: Press this button to view only program files in the Browser. Press and hold **Shift** and press this button to select the Browser's Folder 3 shortcut.
- 36. **Sample/Folder 4**: Press this button to view only sample files in the Browser. Press and hold **Shift** and press this button to select the Browser's Folder 4 shortcut.
- 37. No Filter/Folder 5: Press this button to view all files in the Browser. Press and hold Shift and press this button to select the Browser's Folder 5 shortcut.

Transport & Recording Controls

- 38. **Play**: Press this button to play the sequence from the playhead's current position.
- 39. Play Start: Press this button to play the sequence from its start point.
- 40. **Stop**: Press this button to stop playback. You can double-press this button to silence audio that is still sounding once a note stops playing. Quickly pressing this button three times will act as a "MIDI panic" and shut off all voices and stop all audio processing.
- 41. **Rec**: Press this button to record-arm the sequence. Press **Play** or **Play Start** to start recording. Recording in this way (as opposed to using **Overdub**) erases the events of the current sequence. After the sequence plays through once while recording, Overdub will be enabled.
- 42. **Overdub**: Press this button to enable Overdub. When enabled, you can record events in a sequence without overwriting any previously recorded events. You can enable Overdub before or during recording.
- 43. **Step** </>/> (**Event** |</>): Use these buttons to move the playhead left or right, one step at a time.

Press and hold **Go To** and press one of these buttons to move the playhead to the previous/next event in the sequence grid.

44. **Bar <</>> (Start/End**): Use these buttons to move the playhead left or right, one bar at a time.

Press and hold **Go To** and press one of these buttons to move the playhead to the start or end of the sequence grid.

- 45. **Go To**: Press and hold this button to activate the secondary functions of the </> and <</> buttons (i.e., **Event** |</>| and **Start/End**, respectively).
- 46. **Erase**: As a sequence is playing, press and hold this button and then press a pad to delete the note event for that pad at the current playback position. This is a quick way to delete note events from your sequence without having to stop playback. See *Operation* > *General Features* > *Erase* to learn more.
- 47. Tap Tempo: Press this button in time with the desired tempo to enter a new tempo (in BPM). You can set how many taps are required in the Preferences (see *Operation > General Features > Preferences* to learn how to do this).

Press and hold **Shift** and press this button to set whether the currently selected sequence follows its own tempo or a master tempo.

Basic Concepts

This chapter should help explain some fundamental aspects of the MPC universe.

The MPC workflow is quite different from traditional digital audio workstations (DAWs). In most typical DAWs, each track uses an instance of each instrument, and all tracks are always playing even if they don't contain any audio or MIDI information. Furthermore, your entire project needs to be arranged just as the resulting song would be. This isn't the case with MPC, which offers much more flexibility within your project. It's important to understand some basic terms, though:

A **sequence** is a "building block" of a song. It contains multiple tracks that play at the same time like a normal DAW. In a project, you might create one sequence for your verse and another sequence for your chorus, alternating and/or repeating each one in a specific order to create the song. (A project can contain **128 sequences**.)

A track is a layer in a sequence. There are two types of tracks:

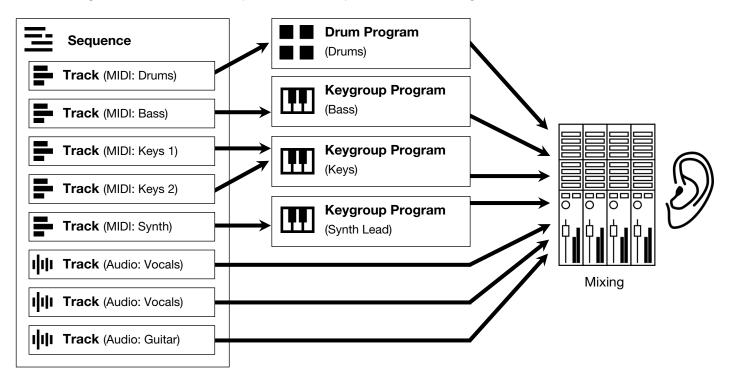
MIDI tracks consist of MIDI data only, no audio data. These tracks produce sound by using **programs**, described below. Unlike a normal DAW, each MIDI track exists only in its sequence. The advantage of this is not having to manage empty or unwanted tracks across all of your sequences—each sequence contains only the tracks you want to use in it. If you want to use the same track across multiple sequences, you can copy the track from one sequence into another. (A sequence can contain **128 MIDI tracks**.)

Audio tracks consist of a recorded audio signal, like a traditional DAW. These tracks do **not** use programs because the audio is already contained in the track. Also, unlike MIDI tracks, audio tracks are present in every sequence in the project, even if the tracks themselves are empty. (A sequence can contain **128 audio** tracks.)

A **program** is a preset through which MIDI tracks are routed. Programs may contain audio samples that are triggered when tracks play through them, producing the sound you want on that track. Programs are independent of tracks and sequences, so you can set multiple tracks to use the same program (unlike normal DAWs where each track requires its own set of samples). Furthermore, you can use the same program/programs across multiple sequences. (A project can contain **128 programs**.)

Each program can be played using the **16 pads** (across eight pad banks, which gives you access to **128 pads in each program**). Each pad plays a MIDI note when you press it, but that MIDI note will trigger something different for each program. For instance, in drum programs, the pads are assigned to samples—one pad could trigger a kick drum sound and another could trigger a snare drum sound—whereas in keygroup programs, each pad triggers a MIDI note that plays the corresponding pitch of the sample assigned to its keygroup.

Here's a diagram to illustrate an example of how these pieces could work together:



Please take a look at the following *Tutorial* chapter, as well. It will walk you through the creation of a short song to show you some of your MPC hardware's most important features.

Tutorial

This chapter should familiarize you with some basic MPC features. We'll create a short song to illustrate some of the most important features. To get the most out of this chapter, we recommend reproducing each of the described steps.

Starting Up

Make sure you have completed all of the steps described in *Introduction > Setup*. This includes:

- Installing the most current drivers and software.
- Connecting your MPC hardware to a power source using the included power adapter and powering it on.
- Opening and authorizing your MPC software.

Creating a Drum Kit

Let's start by making a simple drum kit.

1 (2) (3) (4) (5) C:>Users>Akai>Drum and Percussion	Samples
01 Kicks	
💼 02 Snares	
🗖 03 Sidesticks	
🖿 04 Claps	
💼 05 Hats	-
Auto Play Volume Set	Open
() (2) (3) (4) (5) C: NUsersNAkaiND.cussion SamplesN0	9 Cymbals
↔ 1980Crash.wav	
🖶 1980RideA.wav	
🖶 1980RideB.wav	
🖶 1984Crash.wav	
🖶 1984RideA.wav	

- 1. Press Browser to show the Browser.
- 2. Find and load a kick drum sample:

To move through lists, use the data dial, -/+ buttons, or up and down cursors.

To view only samples while browsing, press Sample/Folder 5.

To move up one folder level, press the left cursor.

To enter a folder, select it and press the right cursor.

To load a selected file, press F6/Load.

To play a selected sound, press and hold F3/Play.

To enable or disable the audition function, press F2/Auto. When enabled, each sample file will automatically play when it is first selected.



Program: Program 001		Style: VELO	Pad: ALL
1980Kick1	1980Snare	1980HatCl	1980HatOp
Sample Re	ed Yellow	Green Ar	nber Default

After loading samples for a drum kit into the sample pool, assign a kick drum sound to a pad:

- 1. Press **Pad Assign**. The **pads** will be shown in a 4x4 array in the screen.
- 2. Make sure the Sample tab is selected (press F1/Sample).
- 3. Press the **pad** to which you want to assign the sample.
- Use the data dial or -/+ buttons to select the kick drum sample. Its name will appear in the pad in the screen. Now, you can press Pad 1 to play the kick drum sample.

To create a simple drum kit, repeat the above steps for other pads. We recommend loading a snare drum, a closed hi-hat, and an open hi-hat.

Creating a Drum Sequence

Now that your drum kit is set up, let's record a drum sequence.

Now: 001	:04 :16	5			
Seq: 001 - 9	Sequence	01		Loop: ON	In C
Bpm: 80.79	MST	Bars: 2		Tran: Off	Out 🗆 👘 📘
Trk: 001 – D)rums	Туре:	Dhum	Len: SEQ F	Rec Arm:ON
Pam: Proana	am 001		Ų	el%:100	Mon‡ AUTO
Midi	Audio	Track-	Track+	Mute	Solo

- 1. Press Main to enter Main Mode.
- 2. Press **Tap Tempo** repeatedly at the speed you want to record your sequence. Your MPC hardware will detect the rate and adjust itself automatically.
- 3. Press **Rec** to record-arm the sequence.
- 4. Press **Play** to start the actual recording. You will hear the count-in for one measure before the recording starts. We recommend recording only one sound (pad) at a time, especially if you're not familiar with playing drums on the pads.
- 5. Play a simple kick drum pattern. The note events you just recorded will automatically be placed in the grid (in this case, on 16th notes). The initial measure length is two bars. After the two bars, the recording will automatically activate Overdub; the sequence will play again from the beginning and keeps looping, allowing you to record further notes. Don't stop the recording!
- 6. Play the snare drum part, then a hi-hat part.
- 7. When you're done recording, press **Stop**.

If you start recording again on this sequence, keep in mind that the pads you play in your new recording will replace existing notes played with the same pads. To prevent this, press **Overdub** before recording instead of the Rec button. Overdub lets you record additional note events over the existing sequence.

The **Undo** button functions differently while recording. Normally, pressing **Undo** will undo just the last event. When there is an event to undo, the **Undo** button will be lit solid. While recording, the **Undo** button will flash. In this case, pressing **Undo** will erase **all** events from that recording (i.e., since **Play** or **Play Start** was pressed).

We recommend doing some renaming of your programs and samples before going further. The collection of drum samples you loaded earlier (and their respective pad assignments) are arranged into a program. When you load this program in the future, you will be able to use all of the samples that belong to it.

Use the MPC software window to name your program and samples, and then save your project.

To see the user guide in the MPC software and learn how to do this, click the **Help** menu, select **MPC Help**, and select **MPC User Manual**.

Making Basic Sound Edits

Let's make sure the samples are properly tuned and have good levels.

Press **Prog Edit** to enter Program Edit Mode.

🔄 Prosra	m <mark>:</mark> Dhur	ns							
Poly:	Pole	Semi:		0	Fine:		0		
		Level	:	71	Pan :		C		
Sim Play 1:	Off	2:	0	ff	3:	C)ዮዮ 4፡	0	ff
Mute Tst 1:	Off	2:	0	ff	3:	C)ff 4:	0	ff
Master		es 📘	Pan Vel	F	lt Env	Lfo	Mod	Effect	s

Press a pad to show its parameters on the screen. Make sure the Master tab is selected (press F1/Master).

To adjust its volume, turn Q-Link Knob 10 (MPC Renaissance) or the second Q-Link knob in the second row (MPC Studio). Alternatively, use the cursors to select Level and then use the data dial or -/+ buttons to adjust it.

To adjust its stereo panning, turn Q-Link Knob 11 (MPC Renaissance) or the third Q-Link knob in the second row (MPC Studio). Alternatively, use the cursors to select Pan and then use the data dial or -/+ buttons to adjust it.

Adjust the level of each pad to suit your taste. We recommend spreading the panning of the bright sounds (e.g., cymbals, snare drum) a little. Additionally, you can tune the sound by adjusting the **Semi** and **Fine** parameters using **Q-Link Knobs 14** and **15** (MPC Renaissance) or the **second** and **third Q-Link knobs** in the **first row** (MPC Studio).

The snare drum may need some reverb to give it a more spatial sound.

Press F6/Effects to view the Effects tab. Press the pad with your snare drum sound to select it.

Phose	Program: Program 001					erts: ON
Ins	ert 1:				Sen	d 1: 0
Ins	Insert 2:					d 2: 0
Ins	ert 3:				Sen	d 3: 0
Ins	ert 4:				Sen	d 4: 0
Master	Samples	Pan Vel	Fit Env	Lfo	Mod	Effects

6		Select	Effect			
Revent) Larse) Larse 2) Medium		MPC	Akai	Professi Professi Professi	onal
Revent) Out Gate) Small		MPC	Akai	Professi Professi Professi	onal
		Back	Sele	st =		

Progr	ram‡ Prosnai	m 001			Inse	ents:	ON
Ins	Insert 1: Reverb Medium					4 1:	0
Ins	Insert 2:						0
Ins	Insert 3:						0
Ins	ert 4:				Send	3 4 :	0
Master	Samples	Pan Vel	Fit Env	Lfo	Mod	Effe	cts

To add an effect:

- 1. Use the cursors to select the Insert 1 slot.
- 2. Use the **data dial** or -/+ buttons.
- 3. In the **Select Effect** screen that appears, use the **data dial**, -/+ buttons, or **up** and **down cursors** to move through the list.
- 4. Select Reverb Medium and then press F4/Select to load it.

To adjust the effect's parameters, select its name, and then press Window. In the screen that appears, use the **Q-Link knobs** to adjust the parameters. Alternatively, use the **cursors** to select a parameter, and use the **data dial** or –/+ buttons.

To turn the effect on or off, press F6/On/Off.

To remove the effect, select its name, and then load an effect as described above, but select <none> instead of an actual effect.

Let's try recording a bass line. Unlike a drum kit, it's important to be able to play and record a bass sound chromatically, so this will be slightly different than setting up the drum kit.

Adding a bass line over the drum part means we need to work on a new track. A **track** is simply a layer of a sequence. Each track uses a program within your project. You can work with multiple tracks in a single sequence (e.g., a drum track, a bass track, a piano track, etc.). When you play the sequence, all of them will play simultaneously.

First, let's make an empty track.

Now: 001 : 01 : 00			
Seq: <mark>001</mark> - Sequence 01		Loop: ON I Tran: Off Ou	ո⊓:!!::ՈՈ
Bem: 120.00 mst Bar	rs: 2	Tran: Off Ou	ť⊟∷∷UU
Trk: 002 - (unused)	Type: Drum	Len: SEQ Rec	Anm: ON
Pam: Program 001	l de la companya de l	Je1%: 100	Mon: AUTO
Midi Audio	Frack- Track+	• Mute	Solo

To select a new track:

- 1. Press Main to go back to Main Mode.
- 2. Press F4/Track+ to select Track 002 (unused). Alternatively, use the Trk field.

Let's create a new program for this track to use.

(*****	New Program	
	New Name: Program 002	
	Type: Keysnoup	
	Cancel Do It	

To create a new program:

- 1. Use the **cursors** to select the **Pgm** field, and then press **Window**.
- 2. In the Edit Program screen that appears, press F3/New.
- 3. In the **New Program** screen that appears, select **Type**, and set it to **Keygroup**. This indicates a keygroup program, which is necessary to play the bass sound chromatically with the pads.
- 4. Press F5/Do It.

You are now using a keygroup program on your new track.



භ හා	C:NUsersNAkaiND.cussion SamplesNi	10 Extras
🖶 BassDrop.wav		<u>م</u>
🗰 BassHrm.wav		
🗰 BassOpen.wav		
🗰 BassReso.wav		
🗰 BassSl1.wav		-
Auto) Play Volume	Load

To load and edit a bass sound:

- 1. Press **Browser** to show the Browser, and use it to navigate to where your bass sounds are located, and load one to the project's sample pool. (You can look at *this earlier section* if you forgot how to do this!)
- 2. After loading a bass sample to the sample pool, **don't** use Pad Assign like you did when creating a drum program; keygroup programs are different.

Instead, press **Prog Edit** to enter Program Edit Mode.

Progr	am: Program 00	2	LOOP	Lock: ON
Layer:	1 Smpl:	BassOpen		
Start:	0 End:	438965 Loop:	0 <mark>51i</mark>	ce: Pad
Tune: 0	: 0Dir:	Fwd Loop:	Off	
Ware:	Off Stretch:	100 BPM:		Sanc: On
Master	Samples Pa	n Vel 📘 Flt Env	Lfo Mod	Effects

- 3. In Program Edit Mode, press F2/Samples to show the first Samples tab.
- 4. Make sure **Layer** in the upper-left corner is set to **1**. Select the **Smpl** field, and then set it to the bass sample you just loaded to the sample pool. Because you're working with a keygroup program instead of a drum program, this sample is now playable across **all** pads.

Tip: On your MPC hardware, press the **Pad Bank D** button to switch to Pad Bank D and press **Pad 13**. You should hear the bass sample played back with its original pitch. You can use the other pads to play your sample chromatically.

Let's add a second layer and set the layers' velocity ranges so the bass will sound different when played at a higher velocity (as a real bass would):

Prosr	ram: Program	n 002			
S1 Pan:	C:Low:	0	Hish:	80 Root:	Sample
S2 Pan :	C Low:	81	Hish:	127 Root:	Sample
S3 Pan:	C Low:	0	Hish:	127 Root:	Sample
S4 Pan:	C Low:	0	Hish:	127 Root:	Sample
Master	Samples	Pan Vel	Fit Env	Lfo Mod	Effects

- 1. Press **Browser** to show the Browser, and select a different bass sample that sounds similar but a little bit brighter, and load it to the project's sample pool.
- 2. Return to Program Edit Mode, and in the **first Samples** tab, set **Layer** to **2**, and set **Smpl** to the new bass sample. Press a **pad** to hear both samples will sound at once. Maybe this new sound is interesting as it is, but let's make some quick edits to get as close as we can to a real-life bass sound.
- 3. Press F3/Pan Vel tab to show the panning and velocity parameters for each sample layer: S1–S4.
- Set S1's High setting to 80, and then do the same to set S2's Low setting to 81. You can do this with Q-Link Knobs 15 and 10 (MPC Renaissance) or the first Q-Link knob in the third column and second Q-Link knob in the second column (MPC Studio), respectively.

Now when you press a pad, the lower velocities (0–80) will trigger the Layer 1 sample only, while higher velocities (81–127) will trigger the Layer 2 sample only.

Let's record that bass line now. Prepare your recording as described earlier, and record some bass notes. You can edit your recording just like we've done earlier.

Once you've recorded it, let's tweak the sound a bit in the **Filter** section.

Kbd>Flt: 0V>Attack: 0V>Env: 0V>Filter: 0 Flt Atk: 0Flt Dec: 6Flt Sust: 127Flt Rel: 0 Amp Atk: 0Amp Dec: 6Amp Sust: 127Amp Rel: 0	Pros	nam: Progra	m 002			
Flt Atk: 0Flt Dec: 6Flt Sust: 127Flt Rel: 0 Amp Atk: 0Amp Dec: 6Amp Sust: 127Amp Rel: 0	Туре:	Low 4 Cuto	ff:	127 Reso:	0 ⁱ Env	<i>)</i> : 0
Amp Atk: 0 Amp Dec: 6 Amp Sust: 127 Amp Rel: 0	Kbd>F1t:	0(V)At	tack:	0 V>Env:	0.0XF	ilter: 0
	Flt Atk:	0 F1t	Dec:	6 Flt Sus	t: 127 F1	Rel: 0
Master Samples Pan Hel Elt Enu Ifo Mod Effects	Amp Atk:	0 Amp	Dec:	6 Amp Sus	t: 127 Ame	Rel: 0
Haber barries ran ver Pic Ero riod Erreos	Master	Samples	Pan Ve	el 📕 Fit En	🗸 📘 Lfo Mo	d Effects

- 1. In Program Edit Mode, press F4/Flt Env tab to show the filter and envelope parameters.
- 2. Set the **Type** to **Low 4**, a 4-pole low-pass filter by turning **Q-Link Knob 13** (MPC Renaissance) or the **first Q-Link knob** in the **first row** (MPC Studio).
- 3. Turn **Q-Link Knobs 14** and **15** (MPC Renaissance) or the **second** and **third Q-Link knobs** in the **first row** (MPC Studio) to adjust the **Cutoff** or **Reso** (resonance) settings until your bass sample sounds good to you.
- 4. Turn **Q-Link Knobs 1** and **4** (MPC Renaissance) or the **first** and **fourth Q-Link knobs** in the **fourth row** (MPC Studio) to adjust the **Amp Atk** (attack) or **Amp Rel** (release) settings. These control the overall level characteristics of the sound.

Do you want to add an effect? Do this in the **Effects** tab like you did earlier.

(January 1997)	Select	Effect			
Autopan Autopan Sync Chorus 2-voice Chorus 4-voice Compressor Master		MPC MPC MPC	Akai Akai Akai	Professi Professi Professi Professi Professi	onal onal onal
Ľ(Back	Sele	ct 🖛		

Program: Program 002					Inserts: ON	
Ins	Insert 1: Chorus 2-voice					d 1: 0
Ins	Insert 2:				Sen	d 2: 0
Ins	Insert 3:				Sen	d 3: 0
Ins	Insert 4:				Sen	d 4: 0
Master	Samples	Pan Vel	Fit Env	Lfo	Mod	Effects

- 1. Select the **Insert 1** slot, and then use the **data dial** or **-/+** buttons.
- 2. In the Select Effect screen that appears, select Reverb Medium and then press F4/Select to load it.

So far, we've created a simple drum sequence and a bass line to go with it. Repeat this process to create a second sequence.

Recording an Audio Track

We've already created some MIDI tracks, so let's record some actual audio for our next track:

Now: 00	1:01:00				
Seq: 001 -	Sequence 0	1			
Bem: 120.0	10 <mark>mst</mark>	Bars:2			LL
Trk:001 - Audio 001 Input:1,2 Rec Arm:ON					Anm: ON
			Lv1:0.	00dB	Mon: OFF
Midi	Audio	Track-	Thack+	Mute	Solo

- 1. Press Main to go back to Main Mode.
- 2. Press F2/Audio. 001 Audio 001 will appear in the Trk field.
- 3. Connect a synthesizer or other line-level audio source to the XLR/1/4" (6.35 mm) **input/inputs** on your MPC hardware's rear panel, and set the **Mic/Line** selector to **Line**.
- 4. Set **Input** field to **Input 1** or **Input 1,2** (depending on your audio source).
- 5. Set Mon to AUTO-you will hear incoming audio while the track is record-enabled only.
- 6. Turn the **Rec Gain** knob to set the input level while playing your audio source. You should now see the level in the meter. Make sure it does not exceed the maximum level (the meter should not be "peaking" constantly).
- 7. If Mute or Solo are on, press F5/Mute or F6/Solo so they are off. Also, press Q-Link Trigger until it is off (not solidly lit or flashing).
- 8. Press **Shift+F4/Rec Arm** to record-enable the track.
- 9. Press Rec to record-arm the sequence.
- 10. To start recording, press Play or Play Start-then play your audio source! You should hear your existing sequence playing in the background.
 - To stop recording, press Stop.

Record another audio track for your other sequence: Select the other sequence in Main Mode, and create another audio track (Audio 002) to go with that sequence.

Creating a Song

This section explains how to make a song out of your sequences. Before starting, make sure that you have recorded some sequences (which we described *earlier*).

To enter Song Mode, make sure playback is stopped, and then press Song.

Nov	J <mark>:001</mark> :01 :00	80.79	MSt	Sons: 01 -	-MPC Prod	iect 1
Step	See	uence		Rets	BPM	Bans
>1	1:Intro			1	(126.00)	2
2	2:Verse 1			2	(126.00)	2
3	4:Chorus 1			2	(126.00)	2
-4	3:Verse 2			1	(126.00)	2
Clea	Clear Convert Delete Insert					

In Song Mode, each of the sequences you've created in this project assigned to a pad. The sequence playlist is to the left of the pads, showing the song's structure.

As a song plays, it moves through each step of the sequence playlist. Each step contains a sequence you assigned. Each step can be repeated, determined by the value in the **Repeat** column (the **repeat icon**; a value of **1** means the sequence will play through only once). The **Bars** column on the right shows the length of that sequence.

Each step can be set to play its sequence at an independent tempo, determined by the value in the **BPM** column.

Important: Each sequence has its own tempo, while the project itself may use a different master tempo. The BPM value for each sequence may be different from the master tempo. As long as playback is set to follow the master tempo, each sequence's individual tempo will be ignored. By default, each project is set to use the sequence tempo, which you set back in the *Creating a Drum Sequence* chapter. We recommend pressing **Shift+Tap Tempo** (so that the top of the screen shows **Mst** instead of **Seq**) and entering a master tempo to ensure all sequences use the same tempo.

To insert a step at the current position, press F6/Insert.

To delete the currently selected step, press F5/Delete.

To set which sequence plays for a step, select the step's Sequence field, and then use the data dial or -/+ buttons to select a sequence.

To set how many times a sequence repeats, select the step's **Rpts** field, and then use the **data dial** or -/+ buttons to select a number.

Exporting the Song

Want to share your new song? Just export it first using the **Audio Mixdown** window in the MPC software. The Audio Mixdown window lets you render and export either the current sequence or song as an audio file. In Song Mode, this will export the entire song. In Main Mode, this will export the current sequence only.

To see the user guide in the MPC software and learn more about this, click the **Help** menu, select **MPC Help**, and select **MPC User Manual**.

Other Features Explained

This chapter describes various advanced features. For a fuller explanation of these features, please refer to their corresponding sections in the *Operation* chapter.

Step Sequencer

You've already learned how to record note events on a track, but you can quickly enter note events in the Step Sequencer by using the pads as "step buttons," simulating the experience of a traditional step-sequencer-style drum machine.

To enter the Step Sequencer, press Step Seq.

Now:001:01:00	Bar: 1 Pad: A01
Seq: 001 - Sequence 01	Loop: ON 🕴 To 🗖 🖓 🗆 🛄
Bem: 120.00(<u>mst</u>) Bars: 2	Loop: ON In [[®]] Tran: Off Out [
Trk: 002 - (unused) Type	:Drum Len:SEQ Rec Arm:ON
Pam: Program 001	Vel%:100 Mon:AUTO
T.C. Bar- Bar+	Pad Sel Pad- Pad+

Let's create a sequence on a new track:

- 1. Select Trk and select an (unused) track.
- 2. Select **Len** and set a length for the track. If you select the minimum value, **SEQ**, the track will be however long your sequence is.

Tip: This lets you maintain tracks of different lengths. For instance, you could play a 1-bar drum sequence repeatedly under a 4-bar bass line.

- 3. Press **F2/Bar–** or **F3/Bar+** to select the bar whose steps you want to create or edit. The bar number will appear in the **Bar** field at the top of the screen.
- 4. Press **F5/Pad–** or **F6/Pad+** to select the pad whose steps want to create or edit. The pad number will appear in the **Pad** field at the top of the screen.
- 5. Press Play to start your sequence.
- 6. Each pad represents a step in the bar. If the pad already has note events on the selected track, the corresponding pads (steps) will be lit with colors corresponding to their velocities.

To enter a note at a step, press an unlit pad. The pad will light up with a color corresponding to its velocity.

To delete the note from a step, press a lit pad. The pad will become unlit.

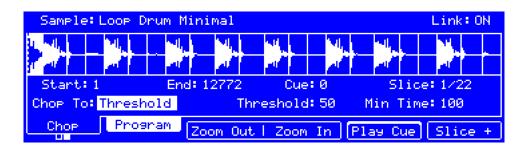
See **Operation** > **Modes** > **Step Sequencer** to learn more about this feature.

Drum Loops & Chop Mode

Modern music producers often use drum loops to add grit and nuance to programmed beats. This section explains how to use Sample Edit Mode to work with drum loops.

Use the Browser to locate a drum loop, and then double-tap it to add it to the current program. The loop does not have to match the tempo of anything in the project.

To enter Sample Edit Mode, press Sample Edit.



- 1. Use the **Sample** field at the top of the screen to select the loaded drum loop. You can scroll through all loaded samples in the project.
- 2. Press F1/Trim/Chop to switch between Trim Mode and Chop Mode. Select Chop Mode, which will let us cut the drum loop into slices.
- 3. Set the **Chop To** field to **Threshold**, and then use the **Threshold** field to select a value. The lower the threshold, the more slices will be created. Be sure to select a value so that every transient peak of the drum loop has a corresponding a slice marker.

Tip: Each slice will be automatically assigned to a pad: Pad A01 plays Slice 1, Pad A02 plays Slice 2, etc. Press each pad to play the slice with the same number.

Let's use this chopped sample to create a new program in which each of these slices is an individual sample. We can also automatically create corresponding note events to play back these slices sequentially.

·	Convert or As				
	Convert To: New P	rogram Wi	th New Sar	mples	
	Crop Samples: ON				
Create New Program: ON					
Create Events: ON					
	Number Of Bars: 2				
		Cancel	Do It		

- 1. Press and hold Shift and then press F4/Convert to screen to show the Convert or Assign Slices screen.
- 2. Set Convert To to New Program with New Samples.
- 3. Set Crop Samples to ON.
- 4. Set Create New Program to ON.
- 5. Set Create Events to ON.
- 6. Set Number Of Bars to the number of bars the entire sample should use in your program.
- 7. Press **F5/Do It** to proceed. Each slice will be assigned to a pad, and each pad will have a recorded note event in the track. When you play that track, it will play each pad (each slice) in the original order.
- 8. Press **Play** and listen to how the drum loop matches your song tempo now.

You can also edit the note events of the drum loop slices—enter Main Mode to do this. A new track with the note events playing their corresponding slices has been automatically created. Press **Shift+F1/T.C.** to use the **Timing Correct** screen to quantize the note events so they fall on exact, even time intervals.

You can also rearrange the note events, thus creating a new playback order for the slices. You can also edit each slice or sample in Program Edit Mode. You can add effects for slices or use the filter function to change the frequency range of a selected slice. There are almost no limits to what you can do.

See **Operation** > **Modes** > **Sample Edit Mode** > **Chop Mode** to learn more about this feature.

Pad Muting & Track Muting

Pad Mute Mode and Track Mute Mode let you silence different pads and tracks to see what the sequence sounds like without those samples or parts.

To enter Pad Mute Mode, press Shift+Track Mute/Pad Mute.

Now: 001 : 01	ow: <mark>001</mark> : 01 : 00 Program: Drums				
SnrSm112	SnrSm113	EXCESSIVE C1	REVOLUTION C1		
1980Crash	1980RideA	1980RideB	Glass		
1980HatCl	1980HatOp	Side11	Side12		
1980Kick1	1984Kick	SnrSmll1	1980Snare		
PadMute PadGroup Time Div T.C.					

- 1. Press **Play** to play the sequence.
- 2. Use the **Program** field to select your drum program.
- 3. Mute or unmute a pad by pressing it. The muted pad will be lit red. You can mute multiple pads at the same time.

See **Operation** > **Modes** > **Pad Mute Mode** to learn more about track mutes.

You can also mute entire tracks by using the similar Track Mute function.

To enter Track Mute Mode, press Track Mute.

🔄 Now: 001 : 01	:00	Seq:001 Sequence 01		
(unused)	(unused)	(unused)	(unused)	
CV	Electro	Track 11	(unused)	
Hybrid	Percussion	Clips	Timbre Wolf	
Drums	Bass	Keys	Keys 2	
TrkMute TrkG	noup	Time Div T.	C. Solo	

- 1. Press Play to play the sequence.
- 2. Use the **Sequence** field to select the desired sequence.
- 3. Each pad is assigned to a track. Mute or unmute a track by pressing the corresponding **pad**. The pad will be lit **red**. You can mute multiple tracks at the same time.

Tip: To mute a track only at precise note intervals ("quantizing" your mutes, essentially), press **F4/Time Div** to set a musical timing value. Use the **Note Value** field to set the quantization value, and then press **F4/Close** to return to the Track Mute screen. Now, when you press a pad in Track Mute Mode, the mute will occur precisely at the beginning of the following time division (in this example, one bar). This lets you test musical combinations of patterns—the preliminary stage to building a song structure.

See **Operation** > **Modes** > **Track Mute Mode** to learn more about track mutes.

Sampling (Recording)

This section describes recording new samples of your own, which you can use in your projects.

Important: To record any audio, you need to connect an audio source to your MPC hardware or to your computer's audio interface.

To open Sample Record Mode, press Shift+Sample Edit/Sample Rec.

Now:	002 <mark>:04:467</mark>		Inserts: ON
Thre	Input: In 1,2 shold: -40dB	Channel:STEREO Time:8:21	Monitor:ON Output:STEREO
Left			
Risht			
	<u> </u>		
Sampler	Sample (Peak Fx	Record

- 1. Connect an audio source to the input/inputs of your MPC hardware.
- 2. Make sure Input is set to In 1,2 (the inputs of your MPC hardware).
- 3. Turn the **Rec Gain** knob to set the input level while playing your audio source. You should now see the level in the meter. Make sure it does not exceed the maximum level (the meter should not be "peaking" constantly).
- 4. Set the **Threshold** field to a fairly low level (e.g., **-50 dB**).
- 5. Press F6/Record to record-arm the sampler.
- 6. Play your audio source. The Sampler will start recording immediately when the input level reaches the threshold value. Alternatively, press **F6/Start** to manually start recording.
- 7. To stop recording, press F6/Stop. The Keep or Discard Sample window will appear.

\Box	-	Keep or Discard Sample	
	Name: 1	New Sample	
	Pre:	Drums	
	Assign	To Pad: A01	
	Ro	ot Note: C3	
ļ		Play Discard Keep	

In the Keep or Discard Sample window:

To assign the new sample to a program, use the Prg field.

To assign the sample to a pad in the program, select the Assign to Pad field, and then press the desired pad. Alternatively, use the data dial or -/+ buttons to select the desired pad number.

To confirm your selections, press F5/Keep.

To discard the recording and return to the previous screen, press F4/Discard.

To play the recording, press F2/Play.

See **Operation** > **Modes** > **Sample Record Mode** to learn more about this feature.

Sample Editing

You may need to edit your newly recorded samples using Sample Edit Mode.

To enter Sample Edit Mode, press Sample Edit.

Sample: 1980Kick1				LOOP	Lock: ON	Link:ON
MMM///////////////////////////////////						
MALLANAMAL	húdhúasnakna	. Dû 3 na soa sa				
Start:0	En	d: 69671 👘	LOOP	:0	Slic	e:All 👘
BPM: 1	51.91 Not	e: C3	LOOP	: Off	Tun	e: 0.00
Trim	Program	Zoom Out	1 Zoom	In	Assign	Process

In Sample Edit Mode:

To switch between Trim Mode and Chop Mode, press F1/Trim/Chop. In this example, set it to Trim.

To set the sample's start point, use Q-Link Knobs 1, 5, 9, and 13 (MPC Renaissance) or the first column of Q-Link knobs (MPC Studio) to adjust the start point with varying degrees of resolution. Alternatively, use the Start field. To set the sample's end point, use Q-Link Knobs 2, 6, 10, and 14 (MPC Renaissance) or the second column of Q-Link knobs (MPC Studio) to adjust the end point with varying degrees of resolution. Alternatively, use the End field.

To hear your edits, press Pad 10 to play the sample from the start point to the end point.

Let's apply some processing to the sample.

To open the Process Sample window, press F6/Process.

(***** *********	Process Slice	
	Function: Pitch Shift	
	Pitch:-0. <mark>13</mark>	
<u>1</u>	Cancel Do It	January Ja

- 1. Use the **data dial** or -/+ buttons to select the desired process in the **Function** field. Let's select **Pitch Shift** to change the overall pitch of your sample. This will transpose the sample without affecting its length.
- To set the pitch shift amount, use the cursors to select the integer or decimal Pitch fields, and use the data dial or -/+ buttons to adjust the value. Alternatively, use the numeric keypad (MPC Renaissance) or press and hold Numeric and use the pads (MPC Studio) to enter a value.
- 3. To confirm your selections, tap Do It. To cancel the process, tap Cancel.

See Operation > Modes > Sample Edit Mode to learn more.

Recording Automation

Automating various parameters is a good way to add some motion and dynamism to your sequences.

To see the user guide in the MPC software and learn more about this, click the **Help** menu, select **MPC Help**, and select **MPC User Manual**.

Operation

This chapter explains the complete features and functions of your MPC hardware.

Navigating the MPC Hardware Screen

Below is some important information about using your MPC hardware controls to navigate what is shown in its screen.

The screen on your MPC hardware reflects what it is controlling in the software, but due to space and character limitations, the hardware screen is slightly different (e.g., parameter names may be abbreviated, the layout may be different or spread across multiple tabs, etc.).

Use the **cursors** to select any of the fields shown in the screen. You can also use the **up** and **down cursors** to move through lists.

$\langle \rangle = \langle \rangle$	$\left(\right)$		►
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Turn the **data dial** or press the –/+ buttons to change the setting or value of the currently selected (highlighted) field in the screen. You can also use these controls to move through lists.

If the selected field is a number, you can use the **numeric keypad** to enter a number and then press **Enter** to confirm it. On the MPC Renaissance, this is the set of 12 buttons above the transport controls. On the MPC Studio, press and hold **Numeric**, and then use the **pads** that are lit **green**.

When the **Window** button is lit, it means the selected field in the screen contains additional parameters in a subwindow. Press **Window** to access them.

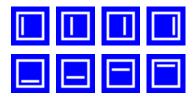
When accessing the secondary functions of buttons on your MPC hardware, you can do this one of two ways: (1) pressing and holding **Shift** and then pressing the desired button or (2) double-pressing the desired button. This manual describes these operations using only the first option, but both are acceptable.

Almost every mode shown on the screen has 1–6 buttons at the bottom. Each of these buttons select a different tab in that mode or perform a specific function in that mode.

Now: 001	:03 :1	20	Bar: 1	Pad:	A01-C.Kick01	Now: 002 : 04 : 467		Inserts: ON
Seq: <mark>001</mark> - 9 Bem: 118.79		01 Bars: 2		op:ON an:Off		Input: In 1,2 Threshold: -40dB	Channel:STEREO Time:8:21	Monitor:ON Output:STEREO
Trk: 001 - 1 Pam: Proara	Drums	Туре:	Drum Le		Rec Arm: ON Mon: AUTO	Left Risht ①		
T.C.	Bar-	Bar+	Pad Sel	Pad-	· I Pad+	Sampler Sample	Peak Fx	Record

In addition to the six buttons at the bottom of the screen, there are often additional ones you can use when you press and hold **Shift**. Press and hold **Shift** to show the secondary buttons, and any of them, if desired. Release **Shift** to return to the previous buttons.

While the MPC Renaissance has **16 Q-Link knobs**, allowing direct access to all 16 parameters, the MPC Studio is equipped with **4 Q-Link knobs** which need to be assigned to the corresponding Q-Link knob column or row by turning the **Scroll** knob above them. In modes where the screen shows a 4x4 array of parameters, you will see an additional indicator on the top or left side of the array, indicating the currently controlled column or row.



Programs

About Programs

Each track you create within a sequence is routed through a **program**. There are six types of programs, each of which determines how the track sounds or what it is used for. A single project can hold up to **128** programs.

This chapter covers how to create each program type.

To learn about editing your programs to your preference, see the *Modes > Program Edit Mode* chapter.

A **drum program** uses one or more samples as its sound source. It contains (1) a list of samples and (2) the settings for each sample (i.e., pad assignments, loop points, pitch tuning, effects, etc.). Drum programs are used mostly for creating drum parts and quickly and easily assigning samples to pads. See *Drum Programs* for more information.

A **keygroup program** uses one or more samples as its sound source. It contains (1) a list of samples and (2) the settings for each sample (i.e., pitch tuning, effects, etc.). Keygroup programs are used to play samples chromatically with a MIDI keyboard or the MPC pads. See *Keygroup Programs* for more information.

A **clip program** uses several samples that can be looped (clips). Each clip can be assigned to a pad, which you can press to trigger the clip according to a quantization setting. This lets you create intriguing, layered performances by launching different combinations of clips together. See *Clip Programs* for more information.

A **plugin program** contains an instance of a plugin through which you can send your track's MIDI data. See *Plugin Programs* for more information.

A **MIDI program** lets you send your track's MIDI data to an external MIDI device like a synth or drum machine. See *MIDI Programs* for more information.

A **CV program** lets you send your track's MIDI data to an external MIDI device that uses control voltage (CV), like a synth. See **CV Programs** for more information.

Drum Programs

A drum program uses one or more samples as its sound source. It contains (1) a list of samples and (2) the settings for each sample (i.e., pad assignments, loop points, pitch tuning, effects, etc.). Drum programs are used mostly for creating drum parts and quickly and easily assigning samples to pads.

To create a drum program:

- 1. Press Main to enter Main Mode.
- 2. Use the cursors to select Pgm, and press Window.
- 3. Press F3/New.
- 4. In the New Program screen that appears, set the Type field to Drum.
- 5. Press F5/Do It to create the program or F4/Cancel to return to Main Mode without creating the program.

To load a sample into a drum program:

- 1. Press Pad Assign. The pads will be shown in a 4x4 array in the screen.
- 2. Use the **Program** field to select the desired program.
- 3. Press F1/Sample so that the Sample tab is selected.
- 4. Press the **pad** to which you want to assign the sample.
- Use the data dial or -/+ buttons to select the desired sample. Its name will appear in the pad in the screen.
 Now, you can press that pad to play the assigned sample.

To clear the assigned sample from a selected pad, set it to the "minimum" value so the pad in the screen is blank. To assign samples to additional pads, repeat Steps 4–5.

Alternatively, assign samples in a drum program in Program Edit Mode in one of these two ways:

Tip: On your MPC hardware, press the **Pad Bank D** button to switch to Pad Bank D and press **Pad 13**. You should hear the bass sample played back with its original pitch. You can use the other pads to play your sample chromatically.

- 1. While using the program, press **Prog Edit** to enter Program Edit Mode.
- 2. Press F2/Samples to show the first Samples tab.
- 3. Press the **pad** to which you want to assign the sample.
- 4. Set Layer to the number of the desired layer: 1-4.
- 5. Set Smpl to the desired sample.
- 1. While using the program, press Prog Edit to enter Program Edit Mode.
- 2. Press **F2/Samples** to show the **second** or **third Samples** tab. This lets you view the samples assigned to all four layers of the current pad as well as the different settings of each layer.
- 3. Press the **pad** to which you want to assign the sample.
- 4. Turn the **first column** of **Q-Link Knobs** to select the desired sample for Layer 1, 2, 3, or 4 (respectively). Alternatively, use the **S1-4** fields.

Keygroup Programs

A keygroup program uses one or more samples as its sound source. It contains (1) a list of samples and (2) the settings for each sample (i.e., pitch tuning, effects, etc.). Keygroup programs are used to play samples chromatically with a MIDI keyboard or the MPC pads.

To create a keygroup program:

- 1. Press Main to enter Main Mode.
- 2. Use the cursors to select Pgm, and press Window.
- 3. Press F3/New.
- 4. In the New Program screen that appears, set the Type field to Keygroup.
- 5. Press **F5/Do It** to create the program or **F4/Cancel** to return to Main Mode without creating the program.

To assign samples in a keygroup program, use one of these two methods:

Tips:

To create complex keygroup programs, you can add more keygroups (up to 128). This is useful when working with multi-samples (e.g., when programming a real piano).

On your MPC hardware, press the **Pad Bank D** button to and press **Pad 13**. You should hear the sample played back with its original pitch. You can use the other pads to play your sample chromatically.

Remember that a keygroup program offers up to 128 keygroups, and each keygroup can hold up to four samples (Layers 1–4). This is a total of 512 samples.

- 1. While using the program, press **Prog Edit** to enter Program Edit Mode.
- 2. Press F1/Master to show the Master tab.
- 3. Use the **Kg Select** field to select the keygroup to which you want to assign the sample. Alternatively, press a **pad** that belongs to that keygroup.
- 4. Press **F2/Samples** to show the **first Samples** tab.
- 5. Set Layer to the number of the desired layer: 1-4.
- 6. Press the **pad** to which you want to assign the sample.
- 7. Set **Smpl** to the desired sample.
- 1. While using the program, press **Prog Edit** to enter Program Edit Mode.
- 2. Press F1/Master to show the Master tab.
- 3. Use the **Kg Select** field to select the keygroup to which you want to assign the sample. Alternatively, press a **pad** that belongs to that keygroup.
- 4. Press **F2/Samples** to show the **second** or **third Samples** tab. This lets you view the samples assigned to all four layers of the current pad as well as the different settings of each layer.
- 5. Press the **pad** to which you want to assign the sample.
- 6. Turn the **first column** of **Q-Link Knobs** to select the desired sample for Layer 1, 2, 3, or 4 (respectively). Alternatively, use the **S1-4** fields.



Clip Programs

A **clip program** uses several samples that can be looped (clips). Each clip can be assigned to a pad, which you can press to trigger the clip according to a quantization setting. This lets you create intriguing, layered performances by launching different combinations of clips together.

By default, the 16 pads are divided into four columns of four pads. Each column represents a mute group; when a pad is playing a clip, all other pads in that same mute group are turned off. This enables you to launch a clip without having to manually stop other clips that are similar. For instance, pressing Pad 2 may launch a bass clip. You could then press Pad 6, which launches another bass clip and stops the clip on Pad 2. This way, you'll never be playing two bass clips simultaneously.

The four-columns pad configuration described above is just a default to make things easy (e.g., you could use the first column for drum clips, the second for bass clips, the third for keyboard clips, and the fourth for vocal clips). You can use Program Edit Mode to assign pads to any combination of mute groups you want.

To create a clip program:

- 1. Press Main to enter Main Mode.
- 2. Use the cursors to select Pgm, and press Window.
- 3. Press F3/New.
- 4. In the New Program screen that appears, set the Type field to Clip.
- 5. Press **F5/Do It** to create the program or **F4/Cancel** to return to Main Mode without creating the program.

To load a clip into a clip program:

- 1. While using the program, press **Prog Edit** to enter Program Edit Mode.
- 2. Press F2/Pad.
- 3. Press a pad to select it (and play its assigned samples, if any).
- 4. Set Sample to the desired clip.

To clear the assigned clip from a selected pad, repeat Step 4, but select <none>.

To assign clips to additional pads, repeat Steps 3-4.

Plugin Programs

A plugin program contains an instance of a plugin through which you can send your track's MIDI data. This lets you use the same instance of a plugin with multiple tracks (rather than load an instance of a plugin on every track, which can be cumbersome and CPU-intensive).

To create a plugin program:

- 1. Press Main to enter Main Mode.
- 2. Use the cursors to select Pgm, and press Window.
- 3. Press F3/New.
- 4. In the **New Program** screen that appears, set the **Type** field to **Plugin**.
- 5. Press **F5/Do It** to create the program or **F4/Cancel** to return to Main Mode without creating the program.

To select the plugin that the program will use:

- 1. Press **Main** to enter Main Mode.
- 2. Use the **cursors** to select **PIg**, and use the **data dial** or **-/+** buttons.
- 3. In the **Select Plugin** screen that appears, select a plugin.

Note: To select a plugin here, you must have already loaded it in the MPC software's **Plugin Manager**. See the user guide in the MPC software to learn more: click the **Help** menu, select **MPC Help**, and select **MPC User Manual**.

4. Press F4/Select to select the plugin or F3/Back to return to Main Mode without selecting a plugin.

To select a preset in your plugin (if any), select Plg, and press Window. In the list that appears, select the desired preset and press F5/Select to select it or F4/Close to return to Main Mode.

To select the MIDI channel the program will use, use the Ch field. Use this setting when you are working with a virtual instrument plugin that supports multi-mode.

To adjust the volume and panning of a track using the plugin program:

- 1. Press Shift+Prog Mix/Track Mix to enter the Channel Mixer.
- 2. Set Mixer to Tracks.
- 3. Press F1/Level to view the velocity levels of all tracks or F2/Pan to view the panning of all tracks.
- Select the field that corresponds to the track with the plugin program, and adjust the value. Alternatively, turn its corresponding Q-Link knob. After you do this once, you can adjust the volume and panning of the plugin program normally.

Important:

If you copy a sequence, the volume and pan values will be copied with that sequence. This is also true if you move to a new sequence and put the same plugin program on a new track.

By default, some plugins do not support MIDI volume and pan. In this case, adjust volume levels and panning on the plugin program.

MIDI Programs

A MIDI program lets you send your track's MIDI data to an external MIDI device like a synth or drum machine.

To create a MIDI program:

- 1. Press Main to enter Main Mode.
- 2. Use the cursors to select Pgm, and press Window.
- 3. Press F3/New.
- 4. In the New Program screen that appears, set the Type field to Midi.
- 5. Press F5/Do It to create the program or F4/Cancel to return to Main Mode without creating the program.

There are five additional settings to configure for a MIDI program: the MIDI port (**Port**), program change message (**PC**), MIDI channel (**Ch**), Most Significant Byte (**Bank MSB**), and Least Significant Byte (**Bank LSB**). See *this section* to learn more.

Note: You also have to configure the MIDI ports in the software's **Preferences** (in the **Edit** Menu). See the user guide in the MPC software to learn more: click the **Help** menu, select **MPC Help**, and select **MPC User Manual**.

To adjust the level and panning of a track using the plugin program:

- 1. Press Shift+Prog Mix/Track Mix to enter the Channel Mixer.
- 2. Set Mixer to Tracks.
- 3. Press F1/Level to view the velocity levels of all tracks or F2/Pan to view the panning of all tracks.
- Select the field that corresponds to the track with the MIDI program, and adjust the value. Alternatively, turn its corresponding Q-Link knob. After you do this once, you can adjust the volume and panning of the MIDI program normally.

Important:

If you copy a sequence, the volume and pan values will be copied with that sequence. This is also true if you move to a new sequence and put the same plugin program on a new track.



CV Programs

A CV program lets you send your control voltage (CV) signals to an external MIDI device like a synth or drum machine that uses CV.

To create a MIDI program:

- 1. Press Main to enter Main Mode.
- 2. Use the cursors to select Pgm, and press Window.
- 3. Press F3/New.
- 4. In the New Program screen that appears, set the Type field to CV.
- 5. Press **F5/Do It** to create the program or **F4/Cancel** to return to Main Mode without creating the program.

There are five additional settings to configure for a CV program: the note tracking (**Note**), the **CV Port**, the **Gate Port**, the modulation wheel (**Mod Wheel**), and **Velocity Port**. See the user guide in the MPC software to learn more: click the **Help** menu, select **MPC Help**, and select **MPC User Manual**.

To adjust the level and panning of a track using the CV program:

- 1. Press **Shift+Prog Mix/Track Mix** to enter the Channel Mixer.
- 2. Set Mixer to Tracks.
- 3. Press F1/Level to view the velocity levels of all tracks or F2/Pan to view the panning of all tracks.
- 4. Select the field that corresponds to the track with the CV program, and adjust the value. Alternatively, turn its corresponding **Q-Link knob**. After you do this once, you can adjust the volume and panning of the CV program normally.

Important: If you copy a sequence, the volume and pan values will be copied with that sequence. This is also true if you move to a new sequence and put the same plugin program on a new track.

Saving

To save the project, press **Shift+Browser/Save**. If you have already saved the project, your changes will be saved. If you have not saved the project yet, use the **Save** window in the software window to save the project.

Important: The MPC software window contains various settings to save a new project. To see the user guide in the MPC software and learn how to do this, click the **Help** menu, select **MPC Help**, and select **MPC User Manual**.

Preferences

The **Preferences** screen contains many customizable elements of the software. Changes to the Preferences are saved automatically.

Important: The Preferences window shown in the MPC software window contains even more settings you may want to configure. To see the user guide in the MPC software and learn how to do this, click the **Help** menu, select **MPC Help**, and select **MPC User Manual**.

To open the Preferences, press Shift+Song/Other, and then press F1/Prefs.

🖃 Auto button: Program	Footswitch1:NONE
Number Of Taps:3 taps	Footswitch2: NONE
Pad Threshold: 8	Recording Bit Depth: 16
Pad Sensitivity:8	Display Resolution: 96 PPQN
Pad Curve: A Pr	ogram Change Target:Off
MidiCtr1	

These are the buttons under the screen:

F1 MidiCtrl Press this button to enter MIDI Control Mode. See *Modes > MIDI Control Mode* to learn more.

Auto button determines whether pressing Q-Link Trigger cycles through the automation states globally (Global) or for the currently selected program only (Program). See General Features > Automation to learn more about this.

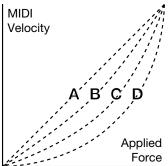
Number Of Taps determines how many times you have to press the Tap Tempo button before the new tempo is recognized.

Pad Threshold determines how much force is required to strike the pads for them to trigger.

Pad Sensitivity determines how the pads respond to touch. At lower values, you need to use more force to generate a high-velocity note. At higher values, it is easier to generate high-velocity notes, even if you do not use much force while pressing a pad.

Pad Curve determines how striking the pads translates into velocity values. The **A** curve is essentially linear, while the **B**, **C**, and **D** curves are exponential (see graphic here).

Footswitch 1 & Footswitch 2 determine how connected footswitches will work. These options are available for MPC Renaissance only, not for MPC Studio, which does not have footswitch inputs.





Recording Bit Depth determines bit depth of the audio recorded from a sample.

Display Resolution is the display resolution in PPQN (pulses per quarter note) of pulse values in certain areas of the operating system. Please note that this setting affects the display resolution, not the timing.

Program Change Target determines what an incoming MIDI program change message will change: nothing (**Off**), a program (**Program**), a sequence (**Sequence**), or a track (**Track**).

Now & Locators

In some modes, there is a time counter at the top of the screen. This shows the current playhead position. You may also see a thin white bar under it that spans the width of the screen, serving as a visual indicator of this position. (If the Auto Record feature is on, **Punch In** or **Seq Start** will be shown next to the time. See *below* to learn about this.)

To jump to a specific location, use the cursors to select each field, and then use the data dial or -/+ buttons to change the number. You can also use the numeric keypad to enter a number and then press Enter to confirm it.

To move forward or backward a step, press the < or > button (MPC Renaissance) or the **Step** < or **Step** > button (MPC Studio), respectively.

To move forward or backward a bar, press the << or >> button (MPC Renaissance) or the Bar << or Bar >> button (MPC Studio), respectively.

Now: 001 : 03 : 20	Bar: 1	Pad: A01-C.Kick01
Seq: 001 - Sequence 01	Loc	oP:ON In□**** an:Off:Out□
Bem: 118.79 529 Bars: 2	Tra	an: Off: Out 🗆 · · · ·
Trk:001 - Drums Type	:Drum Len	:SEQ Rec Arm:ON
Pam: Program 001	Vel%	: 100 Mon: AUTO
T.C. Bar- Bar+	Pad Sel	Pad- Pad+

You can also use the **Locators** screen to jump to another position in the current sequence, set time markers, or turn the Auto Record feature on or off.

To open the Locators screen, press Locate (MPC Renaissance) or Go To (MPC Studio).

(*****		Locators	
GO TO: 00	01:01:00	Auto Rec:Off	
1:00	81:02:04	4:001:0	1:00
2:00	02:02:56	5:001:0	1:00
3:00	32:04:14	6:001:0	1:00
_ L	apture	Close G	。

You can use the following fields and buttons in the **Locators** screen. Use the **cursors** to select each field, and then use the **data dial** or –/+ buttons to change the parameter. If the field is a number, you can use the **numeric keypad** to enter a number and then press **Enter** to confirm it.

GO TO determines where in your current sequence you want to jump.

To jump to a specific location, use the cursors to select each field, and then use the data dial or -/+ buttons to change the number. You can also use the numeric keypad to enter a number and then press Enter to confirm it.

To move forward or backward a step, press the < or > button (MPC Renaissance) or the **Step** < or **Step** > button (MPC Studio), respectively.

To move forward or backward a bar, press the << or >> button (MPC Renaissance) or the Bar << or Bar >> button (MPC Studio), respectively.



Auto Rec determines how the Auto Record feature will function.

To set how Auto Record works, use this field to select an option:

- **Off**: Auto Record is disabled.
- **Punch In**: You can auto-record using punch-in and punch-out markers, enabling you to record over the specified length of time in the track between them. While recording, the entire sequence will play, but you will record over only the area between the **Punch In** and **Punch Out** markers. Any part of the sequence before the Punch In marker or after the Punch Out marker will remain untouched, even if you perform over it during recording.



To set the Punch In and Punch Out markers, select Auto Rec and press Window. Use the fields and buttons in the screen that appears:

The left and right sets of three numeric fields determine the locations of Punch In and Punch Out markers (respectively).

F2/Punch In sets the Punch In marker at the current location (as long as it is before the Punch Out marker).

F5/Punch Out sets the Punch Out marker at the current location (as long as it is after the Punch In marker).

F4/Back returns to the previous screen.

• Seq Start: After you record-arm the track and start playback, you will start recording once the sequence loops back to its start. This is essentially a punch-in feature for the entire track, enabling you to start playing a record-armed track while allowing more time than the usual count-in to prepare for the actual recording to start.

1-6 are the locations of time markers. You can use these to jump automatically to precise locations in a sequence.

To manually enter a time marker location, use each field.

To set a time marker at the current location (the GO TO field), select one of its three fields, and then press F2/Capture.

To jump to a time marker, select one of its three fields, and press F5/Go. Alternatively, on MPC Renaissance, you can press and hold **Locate** and then press a number (1–6) on the **numeric keypad** (you can do this even while not in the **Locators** screen).

F2/Capture sets a time marker at the current location (shown in the GO TO field).

F4/Close returns to the previous screen.

F5/Go jumps to the currently selected time marker (1-6) and returns to the previous screen.

Timing Correct/T.C.

The **Timing Correct** feature (abbreviated **TC**) includes settings to help quantize the note events in a track. This is available in Main Mode and the Step Sequencer.

Note: Pad Mute Mode and Track Mute Mode include a similar Timing Correct feature in each mode, but it is different from the feature described here. See *Modes* > *Pad Mute Mode* and *Track Mute Mode* to learn about those settings.

To open the Timing Correct settings:

- In Main Mode, press Shift+F1/T.C.
- In the Step Sequencer, press F1/T.C.

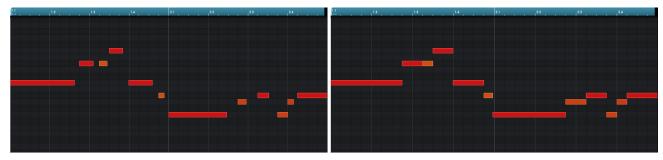
(Timing Correct	
Enabled: OFF		
Type: Start	Time Div: 1\16	Strensth: 100
Swin s: 50	Shift Timin s :0	Window: 100
Events: All		
(c	All Trks Close	Do It
(]	Timing Correct	
Enabled: OFF	Timing Correct	
Enabled: OFF Type: Start	Timing Correct Time Div: 1\16	
	Time Div: 1\16	
Type: Start Swing: 50	Time Div: 1\16	Strensth: 100 Window: 100
Type: Start Swing: 50 Events: Range	Time Div: 1×16 Shift Timing:0	Strensth: 100 Window: 100

You can use the following fields and buttons in the **Timing Correct** screen. Use the **cursors** to select each field, and then use the **data dial** or -/+ buttons to change the parameter. If the field is a number, you can use the **numeric keypad** to enter a number and then press **Enter** to confirm it.

Enabled activates or deactivates global timing correct.

Type determines how timing corrections are applied.

- **Start**: The entire note event will be nudged forward or backward so the start point aligns with the closest time division marker in the grid.
- End: The end points of note events will be extended or shortened to align with the closest time division marker in the grid. The start points will remain untouched.
- Length: The end points of note events will be extended or shortened so that each event's length is a multiple of the time division, regardless of where it is in the grid. The start points will remain untouched.
- Legato: The end points of note events will be extended or shortened to create a long, unbroken phrase from the first note event's start point to the last note event's end point. Each note event will sustain until another note event starts. If multiple note events start at the same time (and are not the last note events), their lengths will become identical. Selecting Legato disables all other options in this window.



Without legato applied.

Time Div is the quantization value. Note events will "snap" to these time divisions on the grid. The **T** indicates a triplet-based value.

To set the quantization value, use this field. Alternatively, if you are not in the Timing Correct screen, press and hold Note Repeat and press one of the six buttons under the screen; F1–F5 sets the note value, and F6/(3) determines whether it is a standard value or triplet-based value.

Strength determines how strictly notes will be quantized (i.e., shifted toward the quantize value): **0–100%**. Lower values move notes a little bit towards the closest quantize value, resulting in a less mechanical feel than a strict quantization (a higher value).

To set the quantization strength, use this field.

Swing determines the amount of swing: **50–75%**. Swing lets you "shuffle" your beats, from subtle to extreme. **50%** corresponds to no swing ("straight") and **75%** corresponds to the maximum amount.

To set the amount of swing, use this field.

Shift Timing is an offset for the events that will be time-corrected. The affected events will be shifted by this amount: **-48** to **48 ticks** of the time counter.

To off-set the time-corrected notes, use this field.

Window determines how many notes around each beat (**Time Div**) will be quantized. Any notes outside this range will not be quantized; notes inside will. This value is measured as a percentage: **0–100%**.

To set the quantization window, use this field.

Events determines the target range for the time correction:

- All: Time correction will be applied to all note events in the currently selected track.
- **Selected**: Time correction will be applied to only the selected note events in the currently selected track. (Use the grid in the MPC software window to do this.)
- **Range**: Time correction will be applied to note events within a certain span of time. You can also set whether it applies to all notes within that timespan or specific note values only.

From is the start of the range.

To is the end of the range.

Notes are the specific note values that you want to time-correct within the range. Press the corresponding pads to select or deselect the notes.

(*****		Timing (Correct		
Enabled	OFF				
Туре:	Start	Time	Div: 1\16	Strenst	h: 100
Swins:	50	Shift Tir	nins:0	Windo	w:100
Events:	Ranse	From: 001	:02:000	To: 002 : 04	1:000
Pads:	A01 A02	A05 A09 A1	0 A12		
2		All Trks	Close	Do It	ز <u>ل</u> ی

F3/All Trks applies the Timing Correct settings to all tracks at the same time.

F4/Close returns to the previous screen without applying your changes.

F5/Do It applies the time corrections you entered and returns to the previous screen.



Click/Metronome

The **Click/Metrome** screen contains all settings regarding the metronome (click track). These settings are accessible from within Main Mode only, though they apply to all modes (globally).

To open the metronome settings, press Main to enter Main Mode, and then press Shift+F2/Click.

_ 	Click/M	Click/Metronome								
	Count In: Record									
	Metronome: Record									
	Rate: 1/4									
	Sound: MpcCli	ck V	olume:-1.48dB							
		Close]	J						

You can use the following fields and buttons in the **Click/Metronome** screen. Use the **cursors** to select each field, and then use the **data dial** or –/+ buttons to change the parameter. If the field is a number, you can use the **numeric keypad** to enter a number and then press **Enter** to confirm it.

Count-In determines if the metronome counts before recording and playback.

To set how the metronome count-in works, use this field to select an option:

- Off disables the metronome pre-count.
- **Record** enables the pre-count during recording only.
- Record + Play enables pre-count in both Record and Playback Modes.

Metronome determines if/when the metronome is enabled:

To set when the metronome is enabled, use this field to select an option:

- **Off** disables the metronome.
- Play enables the metronome sound during playback only.
- Record enables the metronome sound during recording only.
- **Record + Play** enables the metronome to sound during recording and playing.

Rate is the time division of the metronome click: 1/4, 1/4T, 1/8, 1/8T, 1/16, 1/16T, 1/32 or 1/32T. T indicates a triplet-based time division.

To set the metronome rate, use this field.

Sound is the sound that occurs during each beat of the metronome: Sidestick 1, Sidestick 2, Clap, Metroclick, Shake, Tambourine, or MPC Click.

To set the metronome sound, use this field.

Volume is the volume of the metronome.

To set the metronome volume, use this field.

Automation

You can set the automation for programs and audio tracks to be "written," "read," or disabled entirely. You can do this globally or for individual programs and audio tracks.

Global

Changing the global automation state will change the automation state for all programs in your project.

To change the global automation state, press Q-Link Trigger when it is set to Global in the Preferences screen (see *this section* to learn how to do this).

The Q-Link Trigger button will cycle through its three states:

• When **off**, automation data will be ignored. If you have already recorded or entered automation, this will switch between Read (**solidly lit**) and Write (**flashing**) only, but you can override this and turn it off by pressing and holding **Shift** while pressing the button.

Important: If you have already recorded automation and turn it off, the track will still use the effect and its parameter values at the point where you turned it off.

- When **solidly lit** (Read), automation data will be read but not recorded. (Think of this as a protective feature to prevent accidental changes to your automation while recording.)
- When **flashing** (Write), automation can be recorded and will overwrite any existing automation. (Make sure not to touch the Q-Link knobs accidentally while you are recording.)

To set Q-Link Trigger to control global automation, press Shift+Song/Other (which will enter MIDI Control Mode), press F1/Prefs to show the Preferences screen, and set Auto button to Global.

Programs & Audio Tracks

You can also set the automation for each program or audio track. Program automation is available for all program types except MIDI programs.

Note: Remember that changing the global automation state will change the automation state for **all** programs in your project; if they were originally different, all of them will then match the global automation state.

To change the automation state of a program or audio track, first select the MIDI track using the desired program or select the desired audio track. After that, press **Q-Link Trigger** when it is set to **Program** in the **Preferences** screen (see *this section* to learn how to do this).

Alternatively, do the following:

- 1. Press Main to enter Main Mode or Step Seq to enter the Step Sequencer.
- 2. Use the **cursors** to select the parameter in the lower-right corner. This varies depending on the last parameter you adjusted in its sub-window.
- 3. Press Window.
- 4. Use the cursors to select Automation. Use the data dial or -/+ buttons to change its automation state.

6	Progra	am -	Inserts	- Track	1	Audio Ti	nack	Inserts
	Level: -0.76dB	Send1: 45	1: Disto.on Amp	Trans: Off		Level: <mark>-4</mark> .92dB	Send1:0	1:
	Pan: 1 R	Send2: 0	2:Compr.r Opto	Level: 95		Pan: C	Send2: 0	2:
	Mute:	Send3: 0	3:LP Filter	Pan: 4 L		Mute: Mute	Send3: 0	3:
	Automation:×	Send4:0	4: MPC3000	Ve1%: 100		Automation:R	Send4: 0	4:
Į				5et			•	Close Set

You can set each program or audio track to one of three automation states:

• When off (x), the program or audio track will ignore automation data.

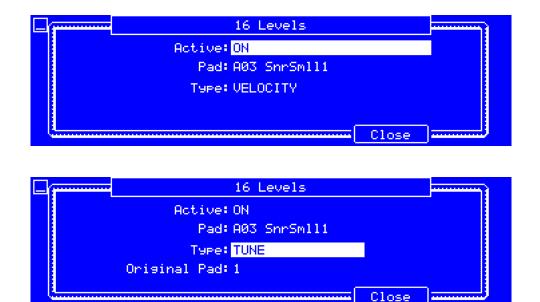
Important: If you have already recorded automation and turn it off, the track will still use the effect and its parameter values at the point where you turned it off.

- When set to **Read** (**R**), the program or audio track will read automation data but will not record any additional automation over it. (Think of this as a protective feature to prevent accidental changes to your automation while recording.)
- When set to **Write** (**W**), the program or audio track can record automation. (If you have any Q-Link knobs assigned to automatable parameters, make sure not to touch any accidentally while you are recording.)

To set Q-Link Trigger to control automation for a program or audio track, press Shift+Song/Other (which will enter MIDI Control Mode), press F1/Prefs to show the Preferences screen, and set Auto button to Program.

16 Level

16 Level temporarily copies the samples of one pad to all 16 pads. The pads will now output the same note number as the initial pad, but a selectable parameter will be fixed at values that increase as the pad numbers increase (i.e., Pad 1 is the minimum, Pad 16 is the maximum), regardless of how hard you press them.



To activate or deactivate 16 Level:

- 1. Press 16 Level.
- 2. Use the fields in the 16 Levels screen that appears:
 - Active determines whether 16 Level is activated (ON) or not (OFF).
 - Pad is the pad that will be copied to all 16 of them. (You can simply press the pad to select it, but Active must be set to OFF first.)
 - Type is the parameter that will vary in value across all 16 pads: Velocity, Tune, Filter, Layer, Attack, or Decay.

If you select **Tune**, use the **Original Pad** field to select which you pad you want to use the original pitch of the sample/samples. Alternatively, hold **Shift** and press the desired pad.

When **Type** is set to **Layer**, pads with multiple samples will play back each layer according to the **Velocity Start** and **Velocity End** settings for each layer.

3. Press **F5/Close** to the previous screen.

Pad Assign

Pad Assign enables you to assign samples and specific colors to your pads in each program.

🔄 Program: Drum	s		Style: FI	XED	Pa	d:SINGLE
1980Crash	1986	RideA	A 1980RideB			
1980HatCl	1988	HatOp	Glass		Side	12
1980Kick1	1984	Kick	SnrSmll1		1980	Snare
Sample Re	ed	Yellow	Green Am		ber	>Default

🔄 Program:	Dhums	5		Style: F	IXED	Pa	d:SINGLE
Light gre	en	Lisk	nt green	Light gre	en		
Amber		Ambe	en	Seaweed		Seaw	eed
Red		Red		Green		Green	
Sample	Re	d	Yellow	Green	Am	ber	>Default

To use Pad Assign:

- 1. Press Pad Assign.
- 2. Use the fields in the screen that appears:

Program is the currently selected program whose pads are shown in the 16 fields below.

Style determines how the pad lights will display:

- **OFF**: The pads will be unlit whether you are playing them or not.
- **VELO**: The pads will be unlit while you are not playing them. When you press them, they will light with colors according to the velocity: red indicates a high velocity, yellow indicates a low velocity.
- **FIXED**: The pads will be lit with their assigned colors whether you are playing them or not.
- **OFF->V**: The pads will be unlit when you are not playing them. When you press them, they will light with their assigned color with a brightness that corresponds with the velocity.
- **DIM->V**: The pads will be dimly lit when you are not playing them. When you press them, they will light with their assigned color with a brightness that corresponds with the velocity.
- **BRI->V**: The pads will be brightly lit when you are not playing them. When you press them, they will light with their assigned color with a brightness that corresponds with the velocity.

Pad determines whether you are setting the color for one pad (SINGLE) or all pads (ALL).

The **pads** are shown in a 4x4 array with the names of their assigned samples or their colors, depending on the tab selected at the bottom of the screen.

To view more pads, use the Pad Bank buttons.

To assign samples to the pads, press F1/Sample to select the Sample tab. Use the field in each pad to select a sample from your project's sample pool. You can also select a pad by pressing it.

To assign colors to the pads, press one of the F2–F5 buttons to select the corresponding color. Press each pad to assign or un-assign that color.

F6/>Default makes the current pad color settings the defaults for all programs on the same type (e.g., drum programs, keygroup programs, etc.). In the screen that appears, press **F4/Do it** to confirm your choice or **F3/Cancel** to return to the previous screen without saving the settings as defaults.

3. Press a mode button to enter any other mode.



Pad Copy

You can use the Pad Copy function to copy the samples and parameters from one pad to another.

۲¢		Copy Pad	
	From Pad: A01		
	To Pads: <mark>A16</mark>	Close D	. It

To copy one pad to another:

- 1. Press and hold Shift+Pad Assign/Pad Copy.
- 2. In the **Copy Pad** window that appears, use the **From Pad** field to select the "source" pad. Alternatively, press the "source" pad (when this field is selected).
- 3. Use the **cursors** to select the **To Pads** field, and then press the "destination" pads.
- 4. Press **F5/Do It** to continue. The samples and parameters will be copied automatically from the source pad to the destination pad/pads.

Alternatively, press **F4/Close** to cancel the operation and return to the previous screen.

Erase

The Erase function erases all or part of a track in a specific sequence.

Ξę			Erase										
	Sequen	ce:0	01	-Se	iuen	ce	01	Thack:	002	-Bas	s		
	Ti	me:0	01	: 01	: 00)		Tot	003	: 01	: 0	0	
	Ena	se: 🛙	11										
U								Back	C	Do I	t		
							_						

q		Erase
	Sequen	ce:001 -Sequence 01 Track:002 -Bass
	Ti	me:001:01:00 To:003:01:00
	Ena	se: Note
	No	tes: F3 G3 G#3 A#3 C4 C#4 D#4
		Back Do It

To use the Erase function:

- 1. Press Erase.
- 2. Use the fields in the screen that appears:

Sequence determines the sequence containing the track whose events you want to erase (partially or entirely).

Track determines the track whose events you want to erase (partially or entirely).

Time and To define the time range of the track whose events you want to erase (partially or entirely). Time is the start of the time range, and To is the end.

Erase determines what types of events you will erase:

- All erases all pad events from the designated time range and reset all of its settings.
- Automation erases only automation from the designated time range. Use the **Parameter** field to select what type of automation to erase, or select **All** to erase all automation from the designated time range.
- **Note** erases only specific pad events from the designated time range. Press each pad (in each bank) to select or deselect its notes, which will appear in the **Notes** field below.
- **Except Note** erases everything **except** pad events from the designated time range. Press each pad (in each bank) to select or deselect its notes, which will appear in the **Notes** field below.
- 3. Press F5/Do It to erase the events, or press F4/Back to return to the previous screen without erasing anything.

Edit Sequence

You can use the Edit Sequence screen to make changes to your currently selected sequence. These functions are described below. All options in the screen will work for MIDI tracks, but some of them will not work for audio tracks.

To enter the Edit Sequence screen, press Seq Edit.

 Edit Se	auence
[1] Insert Blank Bars [2] Delete Bars	[5] Copy a Sequence [6] Transpose
[3] Copy Bars [4] Copy Events	[7] Erase [8] Copy Track
	Back

To select an editing function, press the corresponding pad (Pad 1–8) or press the corresponding button on the numeric keypad.

To exit the screen, press F4/Back to return to Main Mode, or press another mode button.

In the screen for each editing function, use the **cursors** to select each field, and then use the **data dial** or -/+ buttons to change the parameter. If the field is a number, you can use the **numeric keypad** to enter a number and then press **Enter** to confirm it.

	Insert Blank Bars	1
	Sequence: <mark>001</mark> - Sequence 01	
	Number Of Bars: 2	
	Time Sis:4 /4	
	Before Bar: 003	
L	Back Do It	J

The Insert Blank Bars function adds empty bars to a sequence at a specified point.

Sequence determines the sequence to which you want to add empty bars.

Number Of Bars determines how many empty bars you will add.

Time Sig determines the time signature of the empty bars (one field for the number of beats, one field for the note value).

Before Bar is the bar before which the empty ones will be inserted.

F5/Do It inserts the bars.

F4/Back returns to the previous screen without making any changes.

۲.	Delete Bars	53
	Sequence: 001 - Sequence 01	
	First Bar:001	
	Last Bar:001	
	Back Do It	9

The **Delete Bars** function removes a range of bars from a sequence.

Sequence determines the sequence containing the track whose bars you want to delete.

First Bar and Last Bar define the range of bars in the track whose events you want to delete. First Bar is the start of the range, and Last Bar is the end.

F5/Do It deletes the bars.

F4/Back returns to the previous screen without making any changes.



4			Сору Ва	rs From					
	Ses	wence: 001	- Sequence	01					
	Firs	st Bar: 001			Last Bar:	002			
		Copy Bans To							
	See	wence: 002	- Sequence	02	After Bar:	002			
	0	Opies:1							
- Ę			Back	Replace	Mense				

The Copy Bars function copies a range of bars from a sequence and adds them to another at a specified point.

The **first Sequence** field is the "source" sequence whose bars you want to copy.

First Bar and Last Bar define the range of bars you want to copy in the source sequence. First Bar is the start of the range, and Last Bar is the end.

The second Sequence field is the "destination" sequence where the source sequence bars will be copied.

After Bar is the bar after which the new ones will be inserted.

Copies determines how many instances of the copied bars you will add.

F4/Replace overwrites the destination sequence.

F5/Merge adds the events to the destination sequence without erasing anything.

F3/Back returns to the previous screen without making any changes.

			Сору	Е	vents		
From	Seq: 001 -	Sea	uence (31	Thack: 000	3 - Track Ø	3
P	ads: A01	A02	A03 A0	4			
Т	ime:001 :	01	:00		To: 009	3:01:00	
То	Seq:001 -	Seq	uence (31	Thack: 00	3 - Track 0	3
Т	ime:001 :	01	:00		Copies:1	All Ever	its 👘
			Back		Replace	Mense	

The **Copy Events** function copies the content of a track from a sequence and adds them to a track in another sequence at a specified point.

The first Sequence field is the "source" sequence containing the track whose content you want to copy.

The first Track field is the "source" track whose content you want to copy.

The **Pads** or **Notes** field lets you select specific events to copy. Press the pads to select the pads or notes to copy from.

Time and To define the time range of the track whose content you want to copy. Time is the start of the time range, and To is the end.

The **second Sequence** field is the "destination" sequence containing the track where the source track's content will be copied.

The second Track field is the "destination" track where the source track's content will be copied.

Time is the location in the sequence where the content will be copied.

Copies determines how many instances of the copied content you will add.

The lower-right field determines what events will be copied (available for MIDI tracks only):

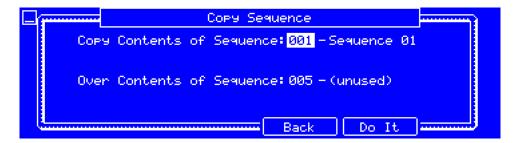
- All Events copies the notes in the time range determined by the Time and To fields above.
- Only Selected copies only the currently selected events.

F4/Replace overwrites the destination sequence.

F5/Merge adds the events to the destination sequence without erasing anything.

F3/Back returns to the previous screen without making any changes.



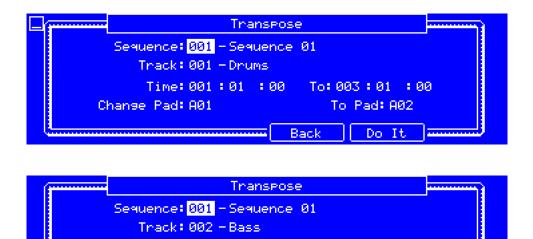


The Copy a Sequence function copies the contents of one sequence to another.

Copy Contents of Sequence is the "source" whose events you want to copy.

Over Contents of Sequence is the "destination" sequence where the source sequence will be copied. **F5/Do It** copies the sequence.

F4/Back returns to the previous screen without making any changes.



The **Transpose** function transposes a range of events on a track in a sequence. The events within that range will shift accordingly in the Grid View. This option is available for MIDI tracks only.

Back

To: 003 : 01

Transpose: 0

Do It

: 00

Sequence determines the sequence containing the track whose events you want to transpose.

Time:001:01 :00

-68

Ranse: C-2

Track determines the track whose events you want to transpose.

Time and To define the time range of the track whose events you want to transpose. Time is the start of the time range, and To is the end.

For drum programs:

Change Pad is the "source" pad (whose events you want to transpose).

To Pad is the "destination" pad (where the events will be placed).

For keygroup programs, plugin programs, and MIDI programs:

Range consists of two fields that define the range of notes of the events you want to transpose. Note events within this range will be transposed, while note events outside of this range will remain unchanged.

Transpose determines how many semitones up or down you want to transpose the note events.

F5/Do It tranposes the events.

F4/Back returns to the previous screen without making any changes.



Цŕ					Enas	e			
	Sequen	ce: 001	-See	iuence	01	Thack: (301 - Dr	ums	
	Ti	me:001	:01	:00		To: (303 : 01	: 0	0
	Ena	se:All							
						Back	Do	T+	
						DOCK	<u></u>	10	
					-	_			
Цľ					Enas	e			
Ľ	Sequen	ce:001	- Se			e Track: (301 — Dr	ums	
L		ce:001 me:001		iuence		Track: (301 − Dr 303 : 01		
	Ti		: 01	iuence		Track: (
	Ti Era	me: 001 se: <mark>Not</mark> i	:01 9	iuence :00	01	Track: (303 : 01	:0	
	Ti Era	me: 001 se: <mark>Not</mark> i	:01 9	iuence :00	01	Track: (To: (903 : 01 107 A08	:0	

The Erase function erases all or part of a track in a specific sequence.

Sequence determines the sequence containing the track whose events you want to erase (partially or entirely).

Track determines the track whose events you want to erase (partially or entirely).

Time and To define the time range of the track whose events you want to erase (partially or entirely). Time is the start of the time range, and To is the end.

Erase determines what types of events you will erase:

- All erases all pad events from the designated time range and reset all of its settings.
- Automation erases only automation from the designated time range. Use the **Parameter** field to select what type of automation to erase, or select **All** to erase all automation from the designated time range.
- **Note** erases only specific pad events from the designated time range. Press each pad (in each bank) to select or deselect its notes, which will appear in the **Notes** field below.
- **Except Note** erases everything **except** pad events from the designated time range. Press each pad (in each bank) to select or deselect its notes, which will appear in the **Notes** field below.

F5/Do It erases the events.

F4/Back returns to the previous screen without making any changes.

\Box_{i}		C	ору 1	[nack		
		Copy Contents of	f Tra	ck = 001 - Dr	nums	
		Over Contents of	f Tra	ck: 012 – ()	unused)	
Į				Back	Do It	للسسي
\Box_{i}		Сору	Audi 🖉	io Track 👘		
	Сору С	Contents of Audio	o Tra	ck : 006 - Ha	armonies	
	Over C	Contents of Audio	o Tra	ck: 007 – A	udio 007	
				Back	Do It	للسس

The **Copy Track** function copies the contents of one track to another within the same sequence.

The first Track field is the "source" track whose content you want to copy.

The **second Track** field is the "destination" track where the source track's content will be copied. **F5/Do It** copies the track.

F4/Back returns to the previous screen without making any changes.

Effects

You can apply various effects to the pads, keygroups, audio tracks, programs, submixes, and master outputs, using **insert** and **send**/**return** effects. This chapter can help you get a good overall understanding of how the effects work.

See *Appendix* > *Effects & Parameters* for a list of all available effects (with a brief description of each) and their editable parameters.

Overview

In a program, each **pad** or **keygroup** can have up to **four insert effects** applied to it. See *Insert Effects* > *Pads* or *Keygroups* to learn more about this.

An entire **program** or **audio track** can also have up to **four insert effects** applied to it, as well. See *Insert Effects* > *Programs* or *Audio Tracks* to learn more about this.

For even further flexibility, each **submix** can have up to **four insert effects** applied to it. You can route pads, keygroups, audio tracks, or programs to a submix, which is then routed to a master output. See *Insert Effects* > *Submixes* to learn more about this.

Additionally, each **pad**, **keygroup**, **audio track**, **program**, and **submix** can each be sent to (up to) **four return channels**, each of which can have up to **four insert effects** of their own. Their audio will be routed through the insert effects on those returns, and the processed audio will be sent to a master output. See **Send/Return Effects** to learn more about this.

Finally, you can apply up to **four insert effects** to each master output (a stereo pair of channels: **Outputs 1/2**, **Outputs 3/4**, etc.). See *Insert Effects* > *Master Outputs* to learn more about this.

When you create an audio mixdown of a sequence or song, you can choose whether or not master insert effects are included or send/return effects are included, depending on what you are mixing down:

If you are creating an audio mixdown of a pair of **master outputs**, you can choose whether or not **master insert effects** will be included in the mixdown.

If you are creating an audio mixdown of **separate programs** or **exploded tracks**, you can choose whether or not **send/return effects** will be included in the mixdown.

To see the user guide in the MPC software and learn about this, click the **Help** menu, select **MPC Help**, and select **MPC User Manual**.

There are two other modes that handle effects differently:

- Sample Record Mode can use up to four insert effects, which are applied to the audio as you record it. This means that the effects cannot be "removed" from the sound later. Learn more about this in the Modes > Sample Record Mode chapter.
- Similarly, the Looper can use up to four insert effects, which are applied to the audio as you record it. This
 means that the effects cannot be "removed" from the sound later. Learn more about this in the Modes >
 Looper chapter.



When viewing effect slots (empty or loaded), you will see either all four slots at once or one slot at a time across four tabs:

(F Progra	im i	Inserts	-	Tr	ack 🙀
Level: -0.76dB	Send1: 45	1: Disto.on	Ame	Trans	: Off
Pan:1 R	Send2: 0	2:Compr.n O	Pto	Level	: 95
Mute:	Send3: 0	3:LP Filter		Pan	:4 L
Automation: R	Send4:0	4: MPC3000		Ve1%	:100
		Close 3			
📄 🛛 Program: Drums				Ins	erts: ON
Insert 1: R	everb Mediu	m		Sen	d 1: 23
Insert 2: D	istortion O	verdrive		Sen	d 2: 23
Insert 3:				Sen	d 3: 18
Insert 4:				Sen	d 4: 0
Master Samples	Pan Vel	Fit Env	Lfo	Mod	Effects
🔄 Mixer: Programs			P	rognar	n: 1-16
13: Autopan 14	:Del. Sync	15: MPC300	90	16:	-
9:Rev.edium 10	🛙 Pha. Sync	11: Com. 0)eto	12:	1PC60
5:Cho.voice 6	.: -	7:		8:1	P Filter
1:Dis.n Amp 2	Dis.ustom	3:Rev.ed	lium	4:	
Level Pan	Mute	Send	Ins	I	Route

To load an effect to a slot or to change a slot's loaded effect, use the cursors to select the field for that insert slot, and then use the data dial or -/+ buttons to enter the Select Effect screen (described below).

To edit the parameters of a loaded effect, use the cursors to select the field for that insert slot, and then press Window to enter the effect's parameter screen (described *below*).

To clear the insert slot, load an effect as described above, but select the <none> option.

To enable or disable an effect, turn its corresponding **Q-Link knob** while viewing an **Insert** tab in the Pad Mixer or Channel Mixer.

To enable or disable all four effect slots, use the cursors to select Inserts in the upper-right corner (if it is shown), and then use the data dial or -/+ buttons to select On or Off (respectively).

When selecting an effect, you will see the Select Effect screen:

(IIIIIIIIIII	Select Effect	
Auto Wah	MPC	Akai Professional
Autopan	MPC	Akai Professional
Autopan Sync	MPC	Akai Professional
Chorus 2-voice	MPC	Akai Professional
Chorus 4-voice	MPC	Akai Professional
(<u></u>)	Back Sele	ct

To move through the list, use the data dial or -/+ buttons.

To load an effect, press F4/Select.

To return to the previous screen without loading an effect, press F3/Back.



When editing an effect, you will see this screen:

💦 Reverb Medi	um	Params:1 - 16
DryWet: 12	Diffus:43	
PreDel:50	Decay: 22	
Early: 37	Lo Cut: 15	
Dnsite:35	Hi Cut:10	
		Close On

To adjust a parameter, use the **cursors** to select its field, and then use the **data dial** or -/+ buttons to change it. Alternatively, turn the corresponding **Q-Link knob**.

To select another page of parameters, use the cursors to select **Params** in the upper-right corner, and then use the **data dial** or -/+ buttons to change which parameters you are viewing.

To enable or disable the effect, press F6/On/Off.

To return to the previous screen, press F4/Close.



Insert Effects

This section describes the different ways to load insert effects to pads, keygroups, audio tracks, programs, submixes, and master outputs.

Pads

You can load up to four insert effects to each pad in a drum program or clip program. You can do this in Program Edit Mode or the Pad Mixer.

Tip: When using pad insert effects, they will be applied to the selected pad only. This means that you could apply unique combinations of effects to each pad within a program. If you want to apply the same effect to all pads, do this with a program insert effect (see *Insert Effects > Programs*).

🗌 Pros	nam: Drums			Ins	erts: ON
Ins	ert 1: Rev	verb Medium		Ser	nd 1: 23
Ins	ert 2: Dis	stortion Ov	erdrive	Ser	nd 2: 23
Ins	ert 3:			Ser	nd 3: 18
Ins	ert 4:			Ser	nd 4: 0
Master	Samples	Pan Vel	Fit Env	Lfo Mod	Effects

To load a pad insert effect in Program Edit Mode:

- 1. Press Prog Edit to enter Program Edit Mode.
- 2. Use the cursors to select Program, and turn the data dial or -/+ buttons to select the desired program.
- 3. Press the desired pad to select it.
- 4. Press F6/Effects.
- 5. Use the **cursors** to select the desired insert slot.
- 6. Turn the data dial or -/+ buttons to open the Select Effect screen to select and load an effect.

A13: A14: AIR.essor A15: AIR.ricEQ A16: A09: A10: A11: A12: A05: Rev.Small A06: Rev.Small A07: A08:	
[1177]	
A05: Rev.Small A06: Rev.Small A07: A08:	
A01:Dis.n Amp A02: A03:Dis.n Amp A04:Dis.	n Ame
Level Pan Mute Send Insert R	loute

To load a pad insert effect in the Pad Mixer:

- 1. Press Prog Mix to enter the Pad Mixer.
- 2. Use the cursors to select Program, and turn the data dial or -/+ buttons to select the desired program.

Alternatively, use the **cursors** to select **Track**, and turn the **data dial** or **-**/**+** buttons to select the desired track—the program it uses will be selected automatically.

- 3. Press F5/Insert to select the desired insert slot.
- 4. Press the desired **pad** to select it, or use the **cursors** to select its field.
- 5. Turn the data dial or -/+ buttons to open the Select Effect screen to select and load an effect.

Turn the Q-Link knobs to turn their corresponding effects on or off.



Keygroups

You can load up to four insert effects to each keygroup in a keygroup program. You can do this in Program Edit Mode or the Pad Mixer.

Important: When using keygroup insert effects, they will be applied to that keygroup only. Keep this in mind if you load insert effects to multiple keygroups with overlapping note ranges—the effects will overlap in that range as well.

Insert 1: Chorus 2-voiceSend 1: 43Insert 2: Reverb LargeSend 2: 13Insert 3:Send 3: 40Insert 4:Send 4: 0	🗌 Pros	Program: Bass					
Insert 3: Send 3: 40 Insert 4: Send 4: 0	In	sert 1: Cho	rus 2-voic	e		Send 1	: 43
Insert 4: Send 4: Ø	Ins	Send 2	: 13				
	In	Send 3	: 40				
	In						
Master Samples Pan Vel Flt Env Lfo Mod Effects	Master	Samples	Pan Vel	Fit Env	Lfo	Mod Ef	fects

To load a keygroup insert effect in Program Edit Mode:

- 1. Press Prog Edit to enter Program Edit Mode.
- 2. Use the **cursors** to select **Program**, and turn the **data dial** or **-/+** buttons to select the desired program.
- 3. Press a pad to select the keygroup it belongs to, or press F1/Master and then use the Kg Select field.
- 4. Press F6/Effects.
- 5. Use the cursors to select the desired insert slot.
- 6. Turn the data dial or -/+ buttons to open the Select Effect screen to select and load an effect.

Program:	Bass			Trk: 00	2 - Ba	ss	
13:		14:		15:		16:	
9:		10:		11:		12:	
5:		6:		7:		8:	
1: Cho.v	oice	2:	AIR.horus	3: AIR.h	orus	4:	
Level	Pa	n j	Mute	Send	Ins	ert	Route

To load a keygroup insert effect in the Pad Mixer:

- 1. Press Prog Mix to enter the Pad Mixer.
- 2. Use the cursors to select Program, and turn the data dial or -/+ buttons to select the desired program.

Alternatively, use the **cursors** to select **Track**, and turn the **data dial** or **-**/+ buttons to select the desired track — the program it uses will be selected automatically.

- 3. Press F5/Insert to select the desired insert slot.
- 4. Press a **pad** to select the keygroup it belongs to, or use the **cursors** to select its field.
- 5. Turn the data dial or -/+ buttons to open the Select Effect screen to select and load an effect.

Turn the Q-Link knobs to turn their corresponding effects on or off.





Audio Tracks

You can load up to four insert effects to each audio track. You can do this in Main Mode and the Channel Mixer.

Now: 002 : 01 : 46 Seq: 001 - Sequence 01 Bem: 118.79 <u>(Seq</u>) Bars: 2	Loo	⊧:ON	
ſrk∶001 -Vocals 1	Input: 1,2		Arm: ON Mon: OFF
Midi Audio Track-	Track+	Mute	Solo
Audio Track	Inse	erts	
Audio Track Level: -4.92dB Send1:0 Pan: C Send2:0	Inse 1:Distortion 2:Reverb Sma	Grimey	
Level: -4.92dB Send1:0	1: Distortion	Grimey 11	
Level: -4.92dB Send1: 0 Pan: C Send2: 0	1: <mark>Distortion</mark> 2:Reverb Sma	Grimey 11	

To load an audio track insert effect in Main Mode:

- 1. Press Main to enter Main Mode.
- 2. Press F2/Audio to view your audio tracks in Main Mode.
- Use the cursors to select Trk, and then use the data dial, -/+ buttons, or numeric keypad to select the desired audio track. Alternatively, press F3/Track- or F4/Track+.
- 4. Use the **cursors** to select the parameter in the lower-right corner next to **Mon**. This varies depending on the last parameter you adjusted in its sub-window.
- 5. Press Window.
- 6. Use the cursors to select the desired insert slot.
- 7. Turn the data dial or -/+ buttons to open the Select Effect screen to select and load an effect.

🔤 Mixer: A	udio '	Thack	s	ĺ	Audio	Thac	(† 1-16
13: -		14:	-	15: -		16:	_
9: -		10:	-	11: -		12:	-
5: Rev. S	mall	6:		7:Dis.n	Ame	8:	-
1:AIR.e	everb 2:Rev.edium		3: MPC30	99	4:		
Level	Pa	in j	Mute	Send		ert [Route

To load an audio track insert effect in the Channel Mixer:

- 1. Press Shift+Prog Mix/Track Mix to enter the Channel Mixer.
- 2. Use the cursors to select Mixer, and turn the data dial or -/+ buttons to select Audio Tracks.
- 3. Press F5/Insert to select the desired insert slot.
- 4. Use the cursors to select the corresponding field for the desired audio track.
- Turn the data dial or -/+ buttons to open the Select Effect screen to select and load an effect.
 Turn the Q-Link knobs to turn their corresponding effects on or off.



Programs

You can load up to four insert effects to each program. You can do this in Main Mode, the Step Sequencer, and the Channel Mixer. In Main Mode, you can load insert effects for drum, keygroup, clip, and plugin programs only. In the Channel Mixer, you can load insert effects for drum, keygroup, or clip programs only.

Now: 002:01:4	6		
Seq: 001 - Sequence	01	Loop: ON	In 🗆 👘
Bpm: 118.79(509)	Bars: 2	Tran: Off	out 🖬 👘 🛄
Trk: 007 - Track 07	Type: Drum	Len: SEQ	Rec Arm: ON
Pam: Program 001		Ve1%: 100	Mon: AUTO
Midi Audio	Track- Trac	k+ Mute) Solo

۲¢	Progra	im in the second se	Inserts	Track
	Level: <mark>-0</mark> .76dB	Send1: 45	1:Disto.on A	Ame Trans: Off
	Pan : 1 R	Send2: 0	2:Compr.n Or	•to Level:95
	Mute:	Send3: 0	3:LP Filter	Pan: 4 L
	Automation:×	Send4: 0	4: MPC3000	Ve1%:100
			I Close	Set Jamman

To load a program insert effect in Main Mode:

Note: In Main Mode, you can load insert effects for drum, keygroup, clip, or plugin programs. MIDI and CV programs do not use insert effects.

- 1. Press Main to enter Main Mode.
- 2. Press F1/Midi to view your MIDI tracks in Main Mode.
- 3. Use the **cursors** to select **Trk**, and then use the **data dial**, -/+ buttons, or **numeric keypad** to select the track with the desired program. Alternatively, press **F3/Track** or **F4/Track**+.
- 4. Use the **cursors** to select the parameter in the lower-right corner next to **Mon**. This varies depending on the last parameter you adjusted in its sub-window.
- 5. Press Window.
- 6. Use the cursors to select the desired insert slot.
- 7. Turn the data dial or -/+ buttons to open the Select Effect screen to select and load an effect.

Now: 002:01:46	Bar: 1 Pad: A01-C.Kick01
Seq:001 - Sequence 01	
Bem: 118.79(509) Bars: 2	Loop: ON In I P Tran: Off Out I
Trk: 007 - Track 07 Type:	Drum Len:SEQ Rec Arm:ON
Pam: Program 001	Vel%: 100 Mon: AUTO
T.C. Bar- Bar+	Pad Sel Pad- Pad+

\Box_i	r in the second s	Progra	am	Inserts	- T	nack 📊
	Level:	-0 <mark>.</mark> 76dB	Send1: 45	1:Disto.on	Ame Tran	s:Off
	Pan:	1 R	Send2: 0	2:Compr.r (Deto Leve	1:95
	Mute:		Send3: 0	3:LP Filter	• Pa	n:4 L
	Automa	tion:×	Send4: 0	4: MPC3000	Vel	%:100
				- 	Set	السيبية

To load a program insert effect in the Step Sequencer:

Note: In the Step Sequencer, you can load insert effects for drum, keygroup, clip, or plugin programs. MIDI and CV programs do not use insert effects.

- Press Step Seq to enter the Step Sequencer. (If you cannot enter it because you are viewing audio tracks, press Main and then press F1/Midi to view MIDI tracks first.)
- 2. Use the **cursors** to select **Trk**, and then use the **data dial**, -/+ buttons, or **numeric keypad** to select the track with the desired program. Alternatively, press **F3/Track** or **F4/Track**+.
- 3. Use the **cursors** to select the parameter in the lower-right corner next to **Mon**. This varies depending on the last parameter you adjusted in its sub-window.
- 4. Press Window.
- 5. Use the **cursors** to select the desired insert slot.
- 6. Turn the data dial or -/+ buttons to open the Select Effect screen to select and load an effect.

🔄 Mixer: P	Mixer: Programs				P	rogna	m: 1-16
13: Autor	an	14:	Del. Sync	15: MPC30	90	16:	-
9: Rev.e	dium	10:	Pha. Sync	11:Com. Opto		12:	MPC60
5: Cho.k	oice/	6:	-	7:		8:	LP Filter
1:Dis.r	n Ame	2:	Dis.ustom	3: Rev.e	dium	4:	
Level	Pa	in j	Mute	Send	Ins	ert [Route

To load a program insert effect in the Channel Mixer:

Note: In the Channel Mixer, you can load insert effects for drum, keygroup, or clip programs—not plugin programs. MIDI and CV programs do not use insert effects.

- 1. Press Shift+Prog Mix/Track Mix to enter the Channel Mixer.
- 2. Use the cursors to select Mixer, and turn the data dial or -/+ buttons to select Programs.
- 3. Press F5/Insert to select the desired insert slot.
- 4. Use the **cursors** to select the corresponding field for the desired program.
- 5. Turn the data dial or -/+ buttons to open the Select Effect screen to select and load an effect.

Turn the **Q-Link knobs** to turn their corresponding effects on or off.





Submixes

You can load up to four insert effects to each submix. You can do this in the Channel Mixer only.

_ Mixer: Submix	es		Submix: 1-16
13: -	14: -	15: -	16: -
9: -	10: -	11: -	12: -
5:Rev.rse 2	6:	7: PEQBand	8:
1: Com.ntase	2: AIR.everb	3:Dis.n Amp	4: MPC3000
Level P	an Mute	Send Ins	ert Route

To load a submix insert effect in the Channel Mixer:

- 1. Press Shift+Prog Mix/Track Mix to enter the Channel Mixer.
- 2. Use the cursors to select Mixer, and turn the data dial or -/+ buttons to select Submixes.
- 3. Press F5/Insert to select the desired insert slot.
- 4. Use the **cursors** to select the corresponding field for the desired submix.
- Turn the data dial or -/+ buttons to open the Select Effect screen to select and load an effect.
 Turn the Q-Link knobs to turn their corresponding effects on or off.

Master Outputs

You can load up to four insert effects to each master output (a stereo pair of channels: **Outputs 1/2**, **Outputs 3/4**, etc.). You can do this in the Channel Mixer or in the Effects screen.

13: Rev.Small 14: 15: Dis.ustom 16: PEQ.Shelf 9: 10: PEQBand 11: 12: 5: 6: 7: MPC60 8: MPC3000 1: Com.aster 2: Rev.edium 3: Rev.rse 2 4: AIR.essor Level Pan Mute Insert	Mixer:Outputs				Ou	tput	Pair	s: 1-16
5: 6: 7:MPC60 8:MPC3000 1:Com.aster 2:Rev.edium 3:Rev.rge 2 4:AIR.essor	13: Rev. 9	mall.	14:		15:Dis.ustom		16:	PEQ.Shelf
1:Com.aster 2:Rev.edium 3:Rev.rge 2 4:AIR.essor	9:		10:	PEQBand	11:		12:	
	5:		6:		7: MPC60		8:	MPC3000
Level Pan Mute Insent	1: Com.a	1:Com.aster 2:Rev.		Rev.edium	3: Rev.ns	e 2	4:	AIR.essor
Tiber o	Level	Pa	n Mute		Insert		ert	

To load a master insert effect in the Channel Mixer:

- 1. Press Shift+Prog Mix/Track Mix to enter the Channel Mixer.
- 2. Use the cursors to select Mixer, and turn the data dial or -/+ buttons to select Outputs.
- 3. Press F5/Insert to select the desired insert slot.
- 4. Use the **cursors** to select the corresponding field for the desired master output.
- Turn the data dial or -/+ buttons to open the Select Effect screen to select and load an effect.
 Turn the Q-Link knobs to turn their corresponding effects on or off.

Outputs: 1/2	Vintage Mode: NONE
Insert 1: Compressor Master Insert 2: Reverb Medium	Level:0.00dB Pan:C
Insert 3: Insert 4:	
	Mute

To load a master insert effect in the Effects screen:

- 1. Press Shift+Seq Edit/Effects to enter Effects screen.
- 2. Use the cursors to select Outputs, and turn the data dial or -/+ buttons to select the desired master output.
- 3. Use the cursors to select the desired insert slot (Insert 1-4).
- 4. Turn the data dial or -/+ buttons to open the Select Effect screen to select and load an effect.



Send/Return Effects

Send/return effects work in the following way:

- 1. A pad, keygroup, audio track, program, or submix sends its audio to a return at a designated send level.
- 2. That audio is processed by the effects on the return. Each return can have up to **four insert effects** loaded and activated.
- 3. The processed audio is sent to a pair of master outputs (stereo) or a single master output (mono).

You can load send/return effects and set return levels only in the Channel Mixer, described below. The rest of this section describes the different ways to set the desired send levels for pads, keygroups, audio tracks, programs, or submixes.

🔄 Mixer: R	eturn:	s				ŀ	Returi	n‡ 1−16
13: -		14:	_	15:	-		16:	_
9: -		10:	-	11:	-		12:	-
5: -		6:	-	7:	-		8:	-
1: Rev. 9	mall	2:	Rev.edium	3: F	AIR.es	sor	4:	1PC3000
Level	Pa	n j	Mute			Ins	ert [Route

To load a send/return effect to a return:

- 1. Press Shift+Prog Mix/Track Mix to enter the Channel Mixer.
- 2. Use the cursors to select Mixer, and turn the data dial or -/+ buttons to select Returns.
- 3. Press F5/Insert to select the desired insert slot.
- 4. Use the **cursors** to select the corresponding field for the desired return channel.
- Turn the data dial or -/+ buttons to open the Select Effect screen to select and load an effect.
 Turn the Q-Link knobs to turn their corresponding effects on or off.

🔄 Mixer: R	eturns					Returi	n: 1-16
13:	_	14:	-	15:	_	16:	_
9:	-	10:	-	11:	-	12:	-
5:	-	6:	-	7:	-	8:	-
1: -1	.82dB	2:	+3.39dB	3:	0.00dB	4:	+0.09dB
Level	Pa	n j	Mute			ert	Route

To set the return level:

- 1. Press Shift+Prog Mix/Track Mix to enter the Channel Mixer.
- 2. Use the cursors to select Mixer, and turn the data dial or -/+ buttons to select Returns.
- 3. Press F1/Level to select the desired insert slot.
- 4. Use the **cursors** to select the corresponding field for the desired return channel.
- 5. Turn the **data dial** or -/+ buttons to set the return level.

Alternatively, turn the corresponding Q-Link knob to set the return level for each insert slot.



Pads

You can set the send levels for pads in Program Edit Mode or the Pad Mixer.

🗌 Pros	ram: Drums			Ins	sents: ON
Ins	ert 1: Rev	erb Medium		Ser	nd 1: 23
Ins	ert 2: Dis	tortion Ov	erdrive	Ser	nd 2: 23
Ins	ert 3:			Ser	nd 3: 18
Ins	ert 4:			Ser	nd 4: 0
Master	Samples	Pan Vel	Flt Env	Lfo Mod	Effects

To set the send levels for a pad in Program Edit Mode:

- 1. Press Prog Edit to enter Program Edit Mode.
- 2. Use the **cursors** to select **Program**, and turn the **data dial** or -/+ buttons to select the desired program.
- 3. Press the desired pad to select it.
- 4. Press F6/Effects.
- 5. Use the cursors to select the desired send level (Send 1-4).
- 6. Turn the **data dial** or -/+ buttons to adjust the send level.

Alternatively, turn the corresponding **Q-Link knob** (4, 8, 12, or 16 on MPC Renaissance or the **fourth column** of **Q-Link knobs** on MPC Studio) to adjust the level immediately for each send channel.

🔄 Program:	Drums		Trk: 00	1 - Drums	
A13: 11	A14:	23	A15: 22	A16: (3
A09:4	A10:	0	A11:100	A12: (3
A05:18	A06:	18	A07:2	A08: (52
A01:36	A02:	41	A03: 21	A04:	53
Level	Pan	Mute	Send	Insert	Route

To set the send levels for a pad in the Pad Mixer:

- 1. Press **Prog Mix** to enter the Pad Mixer.
- 2. Use the cursors to select Program, and turn the data dial or -/+ buttons to select the desired program.

Alternatively, use the **cursors** to select **Track**, and turn the **data dial** or -/+ buttons to select the desired track - the program it uses will be selected automatically.

- 3. Press F4/Send to select the desired send channel.
- 4. Press a pad to select it, or use the cursors to select its field.
- 5. Turn the **data dial** or -/+ buttons to adjust the send level.

Alternatively, turn the corresponding Q-Link knob to adjust the send level immediately for each pad.





Keygroups

You can set the send levels for keygroups in Program Edit Mode or the Pad Mixer.

📄 Prosr	ram: Bass				Inserts	ON .
Ins	Insert 1: Chorus 2-voice					43
Ins	Insert 2: Reverb Large					13
Ins	ert 3:				Send 3:	40
Ins	ert 4:				Send 4:	0
Master	Samples	Pan Vel	Fit Env	Lfo Mo	d Eff	ects

To set the send levels for a keygroup in Program Edit Mode:

- 1. Press Prog Edit to enter Program Edit Mode.
- 2. Use the cursors to select Program, and turn the data dial or -/+ buttons to select the desired program.
- 3. Press the desired pad to select the keygroup it belongs to, or press F1/Master and then use the Kg Select field.
- 4. Press F6/Effects.
- 5. Use the cursors to select the desired send level (Send 1-4).
- 6. Turn the **data dial** or -/+ buttons to adjust the send level.

Alternatively, turn the corresponding **Q-Link knob** (4, 8, 12, or 16 on MPC Renaissance or the **fourth column** of **Q-Link knobs** on MPC Studio) to adjust the level immediately for each send channel.

Program	Bass		Trk: 00	32 - Ba	ss	
13:0	14:	0	15:0		16: (3
9: 52	10:	90	11:0		12: (3
5: 53	6:	60	7:68		8: 1	73
1: 32	2:	21	3:6		4: 4	48
Level	Pan	Mute	Send		ert	Route

To set the send levels for a keygroup in the Pad Mixer:

- 1. Press Prog Mix to enter the Pad Mixer.
- 2. Use the cursors to select Program, and turn the data dial or -/+ buttons to select the desired program.

Alternatively, use the **cursors** to select **Track**, and turn the **data dial** or -/+ buttons to select the desired track - the program it uses will be selected automatically.

- 3. Press **F4/Send** to select the desired send channel.
- 4. Press a pad to select the keygroup it belongs to, or use the cursors to select its field.
- 5. Turn the data dial or -/+ buttons to adjust the send level.

Alternatively, turn the corresponding **Q-Link knob** to adjust the send level immediately for each keygroup.





Audio Tracks

You can set the send levels for audio tracks in Main Mode or the Channel Mixer.

Now: 002 : 01 : 4 Seq: 001 - Sequence Bem: 118.79 Seq	01	Lo	oop: ON	
Trk:001 -Vocals 1				Arm: ON Mon: OFF
Midi Audio	Track-	Track+	Mute	Solo
Audio Tr	ack	Ir	serts	
		Ir 1:Distortic		-1
Level: -4.92dB	Send1:0		on Grimey	
Level: -4.92dB Pan: C	Send1: 0 Send2: 0	1: Distortio	on Grimey Mall	
Level: -4.92dB Pan: C	Send1:0 Send2:0 Send3:0	1: <mark>Distorti</mark> 2:Reverb Sr	on Grimey Mall	

To load an audio track insert effect in Main Mode:

- 1. Press Main to enter Main Mode.
- 2. Press F2/Audio to view your audio tracks in Main Mode.
- Use the cursors to select Trk, and then use the data dial, -/+ buttons, or numeric keypad to select the desired audio track. Alternatively, press F3/Track- or F4/Track+.
- 4. Use the **cursors** to select the parameter in the lower-right corner next to **Mon**. This varies depending on the last parameter you adjusted in its sub-window.
- 5. Press Window.
- 6. Use the cursors to select the desired send channel (Send1-4).
- 7. Turn the **data dial** or -/+ buttons to adjust the send level.

🔄 Mixer: A	udio Track	s		Audio	Thac	k‡ 1-16
13: -	14:	-	15: -		16:	-
9: -	10:	-	11: -		12:	-
5:60	6:	50	7:100		8:	-
1:28	2:	23	3:0		4:	17
Level	Pan	Mute	Send		ert	Route

To load an audio track insert effect in the Channel Mixer:

- 1. Press Shift+Prog Mix/Track Mix to enter the Channel Mixer.
- 2. Use the cursors to select Mixer, and turn the data dial or -/+ buttons to select Audio Tracks.
- 3. Press **F4/Send** to select the desired send channel.
- 4. Use the cursors to select the corresponding field for the desired audio track.
- 5. Turn the **data dial** or -/+ buttons to adjust the send level.

Alternatively, turn the corresponding Q-Link knob to adjust the send level immediately for each audio track.





Programs

You can set the send levels for programs in Main Mode, the Step Sequencer, or the Channel Mixer.

🔄 Now: 00:	2:01:46				
Seq: 001 -	Sequence 0	1	Lo	op:ON an:Off Ou	nn∷a:∭
Bem: 118.7	9589	Bars: 2	Tr	an: Off O	it 🖬 💠 📖
Trk: 007 -	Track 07	Туре: [hum Le	n: SEQ Rec	Anm‡ ON
Pam: Proar	am 001		Vel	2:100	Mon: AUTO
Midi	Audio	Track-	Track+	Mute	Solo

ĥ	Program			Inserts	Tr	ack 🛛	
	Level: <mark>-0</mark> .76dB	Send1: 45	1:	Disto.on	Ame	Thans	:Off
	Pan : 1 R	Send2: 0	2:	Compr.n (Deto	Level	: 95
	Mute:	Send3: 0	3:	LP Filter	•	Par	:4 L
	Automation:×	Send4: 0	4:	MPC3000		Ve12	:100
Į				Close	s	et	

To set the send levels for a program in Main Mode:

Note: In Main Mode, you can set send levels for drum, keygroup, clip, or plugin programs. MIDI and CV programs do not use send/return effects.

- 1. Press Main to enter Main Mode.
- 2. Press F1/Midi to view your MIDI tracks in Main Mode.
- 3. Use the **cursors** to select **Trk**, and then use the **data dial**, -/+ buttons, or **numeric keypad** to select the track with the desired program. Alternatively, press **F3/Track** or **F4/Track**+.
- 4. Use the **cursors** to select the parameter in the lower-right corner next to **Mon**. This varies depending on the last parameter you adjusted in its sub-window.
- 5. Press Window.
- 6. Use the cursors to select the desired send channel (Send1-4).
- 7. Turn the data dial or -/+ buttons to adjust the send level.

Now: 002:01:46	Bar: 1 Pad: A01-C.Kick01
Seq: 001 - Sequence 01	Loop: ON In D
Bpm: 118.79[<u>569</u>] Bars: 2	Tran: Off Out 🗄 💠 🛄
Trk:007 - Track 07 Type:D	rum – Len:SEQ Rec Arm:ON
Pam: Program 001	Vel%: <mark>100</mark> Mon:AUTO
T.C. Bar- Bar+	Pad Sel Pad- Pad+

۵í	Progra	m	Inserts	Track
	Level: <mark>-0</mark> .76dB	Send1: 45	1: Disto.on Ame	Trans: Off
	Pan: 1 R	Send2: 0	2:Compr.r Opto	Level: 95
	Mute:	Mute: Send3:0		Pan: 4 L
	Automation:×	Send4: 0	4: MPC3000	Ve1%: 100
			Close :	set

To set the send levels for a program in the Step Sequencer:

Note: In the Step Sequencer, you can set send levels for drum, keygroup, clip, or plugin programs. MIDI and CV programs do not use send/return effects.

- 1. Press **Step Seq** to enter the Step Sequencer. (If you cannot enter it because you are viewing audio tracks, press **Main** and then press **F1/Midi** to view MIDI tracks first.)
- 2. Use the **cursors** to select **Trk**, and then use the **data dial**, -/+ buttons, or **numeric keypad** to select the track with the desired program. Alternatively, press **F3/Track** or **F4/Track**+.
- 3. Use the **cursors** to select the parameter in the lower-right corner next to **Mon**. This varies depending on the last parameter you adjusted in its sub-window.
- 4. Press Window.
- 5. Use the cursors to select the desired send channel (Send1-4).
- 6. Turn the data dial or -/+ buttons to adjust the send level.

🔄 Mixer: P	rognal	ns			P	rognai	m≑ 1−16
13: -		14:	-	15: -		16:	—
9: -		10:	-	11: -		12:	—
5:70		6: 5	54	7:0		8:100	
1:45		2: (85	3: 41		4:	23
Level	Pa	n j	Mute	Send			Route

To set the send levels for a program in the Channel Mixer:

Note: In the Channel Mixer, you can set send levels for drum, keygroup, clip, or plugin programs. MIDI and CV programs do not use send/return effects.

- 1. Press Shift+Prog Mix/Track Mix to enter the Channel Mixer.
- 2. Use the cursors to select Mixer, and turn the data dial or -/+ buttons to select Programs.
- 3. Press **F4/Send** to select the desired send channel.
- 4. Use the **cursors** to select the corresponding field for the desired program.
- 5. Turn the **data dial** or -/+ buttons to adjust the send level.

Alternatively, turn the corresponding **Q-Link knob** to adjust the send level immediately for each program.





Submixes

You can set the send levels for submixes in the Channel Mixer only.

🔄 Mixer: S	ubmix	es				Submi:	x: 1-16
13: -		14:	-	15: -		16:	-
9: -		10:	-	11: -		12:	-
5: 57	5:57 6:0		0	7:21		8: (0
1:60		2:	47	3: 33		4:	55
Level	Pa	in j	Mute	Send			Route

To set the send levels for a submix:

- 1. Press Shift+Prog Mix/Track Mix to enter the Channel Mixer.
- 2. Use the cursors to select Mixer, and turn the data dial or -/+ buttons to select Submixes.
- 3. Press **F4/Send** to select the desired send channel.
- 4. Use the cursors to select the corresponding field for the desired submix.
- 5. Turn the data dial or -/+ buttons to adjust the send level.

Alternatively, turn the corresponding Q-Link knob to adjust the send level immediately for each submix.

Audio Mixdown

The Audio Mixdown window lets you render and export either the current sequence or song as an audio file. In Song Mode, this will export the entire song. In Main Mode, this will export the current sequence only.

The Audio Mixdown window is shown in the MPC software window. To see the user guide in the MPC software and learn how to do this, click the **Help** menu, select **MPC Help**, and select **MPC User Manual**.

Modes

The MPC hardware is always controlling one of several modes. This chapter describes the various features and functions of each one.

Important: The **Prog Mix** button on your MPC hardware corresponds to the **Pad Mixer** in the MPC software. Similarly, **Track Mix** (or **Shift+Prog Mix/Track Mix**) on your MPC hardware corresponds to the **Channel Mixer** in the MPC software. This is due to the functionality changing as the software has evolved.

Main Mode	Press Main.
Browser	Press Browser.
Program Edit Mode	Press Prog Edit .
Sample Edit Mode	Press Sample Edit.
Pad Mixer	Press Prog Mix.
Channel Mixer	Press Shift+Prog Mix/Track Mix.
Step Sequencer	Press Step Seq.
List Editor	Press Shift+Step Seq . (The description of this mode is in <i>Addenda</i> > <i>Updates in MPC 2.1</i> > <i>New Features</i> > <i>List Editor</i> . This feature has been available since earlier releases of the MPC software but not documented for use with MPC Renaissance or MPC Studio until recently.)
Sample Record Mode	Press Shift+Sample Edit/Sample Rec.
Looper	Press Shift+Sample Edit/Sample Rec, and then press F1/Sampler.
Pad Mute Mode	Press Shift+Track Mute/Pad Mute.
Track Mute Mode	Press Track Mute.
Next Sequence Mode	Press Next Seq .
Song Mode	Press Song.
Q-Link Edit Mode	Press Shift+Prog Edit/Q-Link.
MIDI Control Mode	Press Shift+Song/Other.

Main Mode

Main Mode gives you an overview of the most-used functions.

To enter Main Mode, press Main.

Now: 001 : 03 : 20	Bar: 1	Pad: A01-C.Kick01
Seq: 001 - Sequence 01	Loy	op:ON In□*** an:Off Out□
Bem: 118.79(509) Bars	:2 Tr	an: Off Out 🗖 😳 🚺
Trk:001 - Drums	Type: Drum Ler	n:SEQ Rec Arm:ON
Pam: Program 001	Vel2	: 100 Mon: AUTO
T.C. Bar- I E	ar+ Pad Sel	Pad- I Pad+

Use the **cursors** to select each field, and then use the **data dial** or -/+ buttons to change the parameter. If the field is a number, you can use the **numeric keypad** to enter a number and then press **Enter** to confirm it.

Some information shown on this screen is common to both MIDI tracks and audio tracks (described below), while other information is used for MIDI tracks only (see *MIDI Tracks*) or audio tracks only (see *Audio Tracks*).

Now is the time counter at the top of the screen, which shows the current playhead position. (If the Auto Record feature is on, **Punch In** or **Seq Start** will be shown next to the time.) See *General Features > Now & Locators* to learn about this.

Seq is the current sequence number and its name.

To select a sequence, use this field.

To edit the sequence, select this field and then press Window. Use the fields in the Edit Current Sequence screen that appears:

- F2/Clear clears all events from the sequence and resets all of its settings. Press F4/Clear to continue or F3/Cancel to return to the previous screen.
- **F3/Double** immediately doubles the sequence in length and copies all events from the first half to the second half.
- F4/Copy copies the contents of one sequence to another. Copy Contents of Sequence is the "source" whose events you want to copy. Over Contents of Sequence is the "destination" sequence where the source sequence will be copied. Select each field, and then use the numeric keypad, data dial, or -/+ buttons to select a sequence. Press F5/Do It to continue or F4/Back to return to the previous screen.
- **F5/Close** returns to the previous screen.

BPM is the tempo of the sequence.

To set the tempo, press Tap Tempo in time with the desired tempo. Alternatively, use this integer or decimal field.

To set whether the sequence follows its own tempo (seq) or a master tempo (mst), press Shift+Tap Tempo. Alternatively, select seq/mst, and then use the data dial or -/+ buttons.

Bars is the length of the sequence in bars.

To set the number of bars, use this field.

Loop determines whether or not the sequence (or a part of it) will loop.

To enable or disable looping, set this field to ON or OFF (respectively).

To set the start point and end point of loop, select this field, and then press Window. In the Loop Measures screen that appears:

First Bar is the first bar of the loop.

Last Bar is the last bar of the loop.

Number of Bars is the total number of bars in the sequence.

F5/Close returns to the previous screen.

The level meter in the upper-right corner shows the current volume level of the master mix.

MIDI Tracks

These are the buttons under the screen for MIDI tracks:

- F1 Midi Press this button to view your MIDI tracks in Main Mode.
- **F2** Audio Press this button to view your audio tracks in Main Mode.
- F3 Track- Press this button to select the previous track.
- **F4 Track+** Press this button to select the next track.
- **F5 Mute** Press this button to mute the current track.
- **F6 Solo** Press this button to solo the current track.
- Shift+F1 T.C. Press these buttons to open the Timing Correct/T.C. screen, which contains various settings to help quantize the note events in your sequence. See General Features > Timing Correct/T.C. to learn about this.
- Shift+F2 Click Press these buttons to open the Click/Metronome screen, which contains all settings regarding the metronome (click track). See General Features > Click/Metronome to learn about this.

Tran is the transposition (in semitones) of the entire sequence: -24 to +24. Off indicates no transposition (0 semitones).

To set the transposition, use this field.

The **In** and **Out** boxes show that your MPC hardware is receiving or sending (respectively) MIDI messages from or to your computer.

16 **track indicators** are arranged in a 4x4 grid of dots or squares next to the **In** and **Out** boxes. Dots indicate empty/unused tracks. Solid squares indicate used tracks. The outlined square indicates the currently selected track.

To select a track, use the Trk field. Alternatively, press F3/Track- or F4/Track+.

Trk is the current track number and its name.

To select a track, use the Trk field. Alternatively, press F3/Track- or F4/Track+.

To edit the track, select this field, and then press Window. In the Edit Current Track screen that appears:

• F2/Clear clears all events from the track and resets all of its settings. Press F4/OK to continue or F3/Cancel to return to the previous screen.

- **F3/Explode immediately** splits the current track into multiple tracks—one for each distinct pad or note (pitch, not event). The current track will also remain present and intact, while each track created from it is labeled with the track name and pad name or number.
- F4/Copy copies the contents of one track to another. Copy Contents of Track is the "source" track whose events you want to copy. Over Contents of Track is the "destination" track where the source track will be copied. Set each field to the desired track. Press F5/Do It to continue or F4/Back to return to the previous screen.
- **F5/Close** returns to the previous screen.

Pgm is the program used by the current track.

To select a program, use this field.

To edit the program, select this field, and then press Window. In the Edit Program screen that appears:

- **F2/Delete** erases **all** events from the track and resets **all** of its settings. Press **F4/Delete** to continue or **F3/Cancel** to return to the previous screen.
- **F3/New** creates a new program. **New Name** is the name that the new program will use. Use the **Type** field to determine the type of program.
- **F4/Copy** immediately creates an identical program. The duplicate program will use the same name but appended with a number (e.g., **Drums-1**).
- **F5/Close** returns to the previous screen.

Type is the type of program through which the track is being routed. The specific program name is in the **Pgm** field.

To select a program type, use this field to select a drum program (Drum), plugin program (Plugin), MIDI program (Midi), keygroup program (KGrp), clip program (Clip), or CV program (CV).

The screen may show additional fields, depending on the type of program:

- **Drum Program**: (no additional fields)
- Plugin Program:

Note: You have to specify the disk directory where your plugins are located. This can be done in the software's **Preferences**. To see the user guide in the MPC software and learn how to do this, click the **Help** menu, select **MPC Help**, and select **MPC User Manual**.

Plg is the preset (if any) within the plugin the program is using.

To select a preset, select this field, and then press Window. In the screen that appears, select the desired preset, and press F5/Select to continue or F4/Close to return to the previous screen. You can press F2/AutoSel to activate or deactivate automatic selection, which will automatically load each preset as you move through the list.

Ch is the MIDI channel the program uses. Use this setting when you are working with a virtual instrument plugin that supports multi-mode.

To select a MIDI channel, use this field.

MIDI Program:

Port is the port over which the program sends its MIDI data.

Note: You also have to configure the MIDI ports in the **Preferences**. To see the user guide in the MPC software and learn how to do this, click the **Help** menu, select **MPC Help**, and select **MPC User Manual**.

To select a port, use this field.

PC is the program change message the program sends out.

To select a program change message, use this field.

To set the MSB and LSB (Most Significant Byte and Least Significant Byte), select this field, and then press Window. In the screen that appears, set Bank Enable to ON or OFF. When set to ON, select the Bank MSB or Bank LSB values. Press F4/Close to return to the previous screen.

Ch is the MIDI channel the program uses. Use this setting when you are working with a virtual instrument plugin that supports multi-mode.

To select a MIDI channel, use this field.

• Keygroup Program: (no additional fields)

• Clip Program: (no additional fields)

• CV Program:

Port is the port over which the program sends its MIDI data.

Note: You also have to configure the MIDI ports in the **Preferences**. To see the user guide in the MPC software and learn how to do this, click the **Help** menu, select **MPC Help**, and select **MPC User Manual**.

To select a port, use this field.

 $\ensuremath{\text{PC}}$ is the program change message the program sends out.

To select a program change message, use this field.

To set the MSB and LSB (Most Significant Byte and Least Significant Byte), select this field, and then press Window. In the screen that appears, set Bank Enable to ON or OFF. When set to ON, select the Bank MSB or Bank LSB values. Press F4/Close to return to the previous screen.

Ch is the MIDI channel the program uses. Use this setting when you are working with a virtual instrument plugin that supports multi-mode.

To select a MIDI channel, use this field.

Length determines how long the track is in beats. If you select the minimum value, Seq (or 0), the track will be the exact same length as its sequence.

Tip: This feature lets you maintain tracks of different lengths. For instance, you could play a 1-bar drum sequence repeatedly under a 4-bar bass line.

To set the track length, use this field.

Rec Arm shows whether or not the track will be record-enabled (**ON**) or not (**OFF**). When you begin recording, the MIDI data will be recorded to this track.

To record-arm or record-disarm the track, set this field to ON or OFF (respectively).

Mon determines the monitoring behavior of the track.

To select a monitoring option, use this field to select an option:

- Off: The track's MIDI input is not monitored, and playback of recorded events will be heard. This setting is useful when using keyboards with Local Control active.
- In: The track's MIDI input is always monitored regardless of the track's Record Arm state, and playback from recorded events will not be heard.
- Auto: The track's MIDI input is monitored when the track is record armed, and playback of recorded events will be heard.
- Merge: The track's MIDI input is always monitored, and playback of recorded events will be heard.

The parameter in the lower-right corner next to **Mon** varies depending on the last parameter you adjusted in its subwindow.

eq: 001 - Sequence	01	Lo	op: ON	InD	a : [
em: 118.79[509]	Bans : 2	Tr	an: Off	out⊟∷	: : L
rk: 007 - Track 07	Туре	:Drum Le	n: SEQ	Rec Arm:	ON
'9m: Program 001		Vel	X: 100	Mon:	AUT
Midi Audio	Track-	Track+	Mute	So	lo
Midi Audio	Track-	Track+	Mute) So	lo
Midi Audio	<u> </u>	Track+ Inserts	Mute) So Track	10 M
	am :	Inserts		Track	10
Progra	am Send1:45	Inserts 1: <mark>Disto.on</mark>	Ame Tr	Track ans: Off	10
Progr: Level: -0.76dB Pan: 1 R	am Send1:45 Send2:0	Inserts 1: <mark>Disto.on</mark>	Ame <mark>n</mark> Amen Tr Deto Le	Track ans: Off vel: 95	10



To adjust the parameter, use this field.

To edit the parameters in its sub-window, select this field, and then press Window. Use the fields and buttons in the screen that appears (MIDI programs or CV programs will show only the fields under the **Track** column):

Level is the volume level of the program (if it is under **Program**) or track (if it is under **Track**). (You can also use the **numeric keypad** to change this number.)

Pan is the panning position of the program (if it is under **Program**) or track (if it is under **Track**) in the stereo field: 50 L (left) to 50 R (right). C indicates the center position. (If you use the **numeric keypad** to change this number, use values from 0 to 100: 0 corresponds to 50 L, 50 corresponds to C, and 100 corresponds to 50 R.)

Mute determines whether or not the program is muted (Mute) or not (____).

Automation is the program's automation status.

When off (\mathbf{x}), the program will ignore automation data. If you have already recorded or entered automation, this will switch between Read (\mathbf{R}) and Write (\mathbf{W}) only, but you can override this and turn it off by pressing and holding **Shift** while pressing the button.

Important: If you have already recorded automation and turn it off, the track will still use the effect and its parameter values at the point where you turned it off.

When set to **Read** (**R**), the program will read automation data but will not record any additional automation over it. (Think of this as a protective feature to prevent accidental changes to your automation while recording.)

When set to **Write** (**W**), the program can record automation. (If you have any Q-Link knobs assigned to automatable parameters, make sure not to touch any accidentally while you are recording.)

Tip: See **General Features** > **Automation** to learn about setting global automation or automation for individual programs and audio tracks.

Send1–4 show the send levels of the program (0–100).

Inserts 1-4 show the insert effects loaded to the program.

To load an effect, use its Insert field. Select an effect in the Select Effect screen that appears. Press F4/Select to load the selected effect or F3/Back to return to the previous screen.

To change the settings of a loaded effect, select its **Insert** field, and press **Window**. In the screen that appears, you can select and change each parameter (you can use the **numeric keypad** on some of them). Press **F4/Close** to return to the previous screen.

To activate or deactivate an effect, select its Insert field, and press Window. In the screen that appears, press F6/On/Off to activate or deactivate the effect. Press F4/Close to return to the previous screen.

Tran is the transposition (in semitones) of the track: -24 to +24. Off indicates no transposition (0 semitones).

Vel% determines how loudly or quietly a track plays relative to its recorded levels. When set to **50%**, the track will be played with half the velocity it was originally played. When set to **200%**, the track will play twice as loud. The maximum velocity level is still **127**, though.

F4/Close returns to the previous screen without confirming your changes.

F5/Set confirms your changes and returns to the previous screen.

Audio Tracks

These are the buttons under the screen for audio tracks:

- F1 Midi Press this button to view your MIDI tracks in Main Mode.
- F2 Audio Press this button to view your audio tracks in Main Mode.
- **F3** Track– Press this button to select the previous track.
- F4 Track+ Press this button to select the next track.
- **F5 Mute** Press this button to mute the current track.
- **F6 Solo** Press this button to solo the current track.

Shift+F1	т.с.	Press these buttons to open the Timing Correct/T.C. screen, which contains various settings to help quantize the note events in your sequence. See General Features > Timing Correct/T.C. to learn about this.
Shift+F2	Click	Press these buttons to open the Click/Metronome screen, which contains all settings regarding the metronome (click track). See General Features > Click/Metronome to learn about this.
Shift+F3	Peak	Press these buttons to reset the peak indicator on the input level meter.
Shift+F4	RecArm	Press these buttons to record-arm or record-disarm the audio track.

Trk is the current track number and its name.

To select a track, use this field. Alternatively, press F3/Track- or F4/Track+.

To edit the track, select this field, and then press Window. Use the buttons in the Edit Current Track screen that appears:

- F2/Clear erases all regions from the audio track without erasing the track itself. Press F4/OK to continue or F3/Cancel to return to the previous screen.
- F3/New creates a new audio track. Use the fields in the New Audio Track window that appears:

Input is the input source of the external audio signal: a stereo pair (**Input 1,2–Input 31,32**) or a mono channel (**Input 1–32**).

Ascending determines if the channel numbers of the input sources will ascend across the new audio tracks you create. When set to **ON**, the first new audio track will use the input source you set above (e.g., **Input 1,2**), the second new audio track will use the next input source (e.g., **Input 3,4**), the third new audio track (if applicable) will use the next one (e.g., **Input 5,6**), etc. When set to **OFF**, all of the new audio tracks you create in this instance will use the same input source. This feature is relevant only if you are creating more than one new audio track (determined by **Number Of Tracks** below).

Record Enable determines whether or not the track will be record-enabled (**ON**) or not (**OFF**). When you begin audio recording, the audio signal will be recorded to this track.

Input Monitor determines how the track will be monitored: **OFF** (you will not hear any incoming audio), **ON** (you will hear incoming audio whether or not the track is record-enabled), or **AUTO** (you will hear incoming audio while the track is record-enabled only).

Number Of Tracks is the number of tracks you will create. (You can also use the **numeric keypad** to change this number.)

F4/Cancel returns to the previous screen without confirming your changes.

F5/Do It confirms your changes and returns to the previous screen.

- **F4/Delete** erases the entire audio track. Press **F4/Delete** to continue or **F3/Cancel** to return to the previous screen.
- **F5/Close** returns to the previous screen.

Input is the input source of the external audio signal: a stereo pair (**Input 1,2–Input 31,32**) or a mono channel (**Input 1–32**).

To select an input, use this field.

Rec Arm shows whether or not the track will be record-enabled (**ON**) or not (**OFF**). When you begin audio recording, the audio signal will be recorded to this track.

To record-arm or record-disarm the track, set this field to ON or OFF (respectively). Alternatively, press Shift+F4/RecArm.

The input level meter shows the current volume level of the audio track.



The peak indicator turns solid when the input level meter has exceeded the maximum volume level.

To reset the peak indicator, press Shift+F3/Peak.

Level is the input gain level of the audio track. This controls the volume level of the audio signal as it records, not as it plays back.

To set the input gain level, use the integer or decimal field.

To set the input gain level and other track settings, select this field, and then press Window. Use the fields and buttons in the screen that appears:

Level is the input gain level of the track. This controls the volume level of the audio signal as it records, not as it plays back. (You can also use the **numeric keypad** to change this number.)

Pan is the panning position of the track in the stereo field: **50 L** (left) to **50 R** (right). **C** indicates the center position. (If you use the **numeric keypad** to change this number, use values from **0** to **100**: **0** corresponds to **50 L**, **50** corresponds to **C**, and **100** corresponds to **50 R**.)

Mute determines whether or not the track is muted (Mute) or not (____).

Automation is the track's automation status.

When off (x), the track will ignore automation data. If you have already recorded or entered automation, this will switch between Read (\mathbf{R}) and Write (\mathbf{W}) only, but you can override this and turn it off by pressing and holding **Shift** while pressing the button.

Important: If you have already recorded automation and turn it off, the track will still use the effect and its parameter values at the point where you turned it off.

When set to **Read** (**R**), the track will read automation data but will not record any additional automation over it. (Think of this as a protective feature to prevent accidental changes to your automation while recording.)

When set to **Write** (**W**), the track can record automation. (If you have any Q-Link knobs assigned to automatable parameters, make sure not to touch any accidentally while you are recording.)

Tip: See **General Features** > **Automation** to learn about setting global automation or automation for individual programs and audio tracks.

Send1–4 show the send levels of the track (0–100).

Inserts 1-4 show the insert effects loaded to the track.

To load an effect, use its **Insert** field. Select an effect in the **Select Effect** screen that appears. Press **F4/Select** to load the selected effect or **F3/Back** to return to the previous screen.

To change the settings of a loaded effect, select its **Insert** field, and press **Window**. In the screen that appears, you can select and change each parameter (you can use the **numeric keypad** on some of them). Press **F4/Close** to return to the previous screen.

To activate or deactivate an effect, select its Insert field, and press Window. In the screen that appears, press F6/On/Off to activate or deactivate the effect. Press F4/Close to return to the previous screen.

F4/Close returns to the previous screen without confirming your changes.

F5/Set confirms your changes and returns to the previous screen.

Mon determines how the new audio track will be monitored.

To select a monitoring option, use this field to select an option:

- **OFF**: You will not hear any incoming audio.
- **ON**: You will hear incoming audio whether or not the track is record-enabled.
- **AUTO**: You will hear incoming audio while the track is record-enabled only.

Step Sequencer

The Step Sequencer lets you create or edit sequences by using the pads as "step buttons," simulating the experience of a traditional step-sequencer-style drum machine.

This is available for MIDI tracks only, not audio tracks.

To enter the Step Sequencer, press Step Seq. (If you cannot enter it because you are viewing audio tracks, press Main and then press F1/Midi to view MIDI tracks first.)

Now: 001 : 01 : 0	8 Bar:1	Pad: A01
Seq: <mark>001</mark> - Sequence	01	LOOP: ON THE TRUE !!!!
Bem: 120.00(mst)	Bans: 2	Loop: ON In [
Trk: 002 - (unused)	Type: Drum	Len: SEQ_Rec_Arm: ON
Pam: Program 001	V	e1%:100 Mon:AUTO
T.C. Bar-	Bar+ Pad Sel	I Pad- I Pad+

Use the **cursors** to select each field, and then use the **data dial** or -/+ buttons to change the parameter. If the field is a number, you can use the **numeric keypad** to enter a number and then press **Enter** to confirm it.

To enter or delete steps in a sequence:

- Press F4/Pad Sel to select the pad whose steps you want to enter or delete, and then press the pad on your MPC hardware. The current pad number is in the Pad field in the upper-right corner. Alternatively, use the Pad field to change the number. (If you use the numeric keypad to change this number, use values from 0 to 127, corresponding to Pad A01 to Pad H16.)
- 2. Press **F2/Bar-** or **F3/Bar+** to select the bar of the sequence whose steps you want to enter or delete. The current bar number is in the upper-left corner. Alternatively, use the **Bar** field to change the number.
- 3. Press the **pads** of your MPC hardware to enter or delete steps. Each pad corresponds to a step in the bar and will light with a color corresponding to its velocity.

Keep in mind that for time divisions larger than 16, the bar's steps will be represented by multiple pad banks. In this case, use the **Pad Bank** buttons to view all the steps within a bar.

These are the buttons under the screen:

- F1 T.C. Press this button to open the Timing Correct/T.C. screen, which contains various settings to help quantize the note events in your sequence. See General Features > Timing Correct/T.C. to learn about this.
- **F2 Bar–** Press this button to select the previous bar of the sequence to edit. The current bar number is in the **Bar** field in the upper-right corner.
- F3 Bar+ Press this button to select the next bar of the sequence to edit. The current bar number is in the Bar field in the upper-right corner.
- **F4 Pad Sel** Press this button to activate or deactivate Pad Select. When this is activated, use the pads to select a pad rather than enter or delete a step. When this is deactivated, use the pads to enter or delete steps for the pad in the **Pad** field in the upper-right corner.
- **F5 Pad–** Press this button to select the previous pad whose steps you want to edit. The current pad number is in the **Pad** field in the upper-right corner.
- **F6 Pad+** Press this button to select the next pad whose steps you want to edit. The current pad number is in the **Pad** field in the upper-right corner.

Now is the time counter at the top of the screen, which shows the current playhead position. (If the Auto Record feature is on, **Punch In** or **Seq Start** will be shown next to the time.) See *General Features > Now & Locators* to learn about this.

Bar is the bar of the sequence whose steps you want to enter or delete.

To select a bar, press F2/Bar- or F3/Bar+. Alternatively, use the Bar field.

Pad is the pad whose steps you want to enter or delete.

To select a pad, press F4/Pad Sel and then press the pad on your MPC hardware. Alternatively, use the Pad field. If you use the **numeric keypad** to change this number, use values from 0 to 127, corresponding to Pad A01 to Pad H16.

Seq is the current sequence number and its name.

To select a sequence, use this field.

To edit the sequence, select this field, and then press Window. Use the buttons in the Edit Current Sequence screen that appears:

- F2/Clear clears all events from the sequence and resets all of its settings. Press F4/Clear to continue or F3/Cancel to return to the previous screen.
- **F3/Double** immediately doubles the sequence in length and copies all events from the first half to the second half.
- F4/Copy copies the contents of one sequence to another. Copy Contents of Sequence is the "source" whose events you want to copy. Over Contents of Sequence is the "destination" sequence where the source sequence will be copied. Set each field to the desired sequence. Press F5/Do It to continue or F4/Back to return to the previous screen.
- **F5/Close** returns to the previous screen.

BPM is the tempo of the sequence.

To set the tempo, press Tap Tempo in time with the desired tempo. Alternatively, use this integer or decimal field.

To set whether the sequence follows its own tempo (seq) or a master tempo (mst), press Shift+Tap Tempo. Alternatively, select seq/mst, and then use the data dial or -/+ buttons.

Bars is the length of the sequence in bars.

To set the number of bars, use this field.

Loop determines whether or not the sequence (or a part of it) will loop.

To enable or disable looping, use this field.

To set the start point and end point of loop, use the cursors to select this field, and then press Window. In the Loop Measures screen, use the cursors to select each field, and then use the numeric keypad, data dial, or -/+ buttons to change the number:

First Bar is the first bar of the loop.

Last Bar is the last bar of the loop.

Number of Bars is the total number of bars in the sequence.

The level meter in the upper-right corner shows the current volume level of the master mix.



Tran is the transposition (in semitones) of the entire sequence: -24 to +24. Off indicates no transposition (0 semitones).

To set the transposition, use this field.

The **In** and **Out** boxes show that your MPC hardware is receiving or sending (respectively) MIDI messages from or to your computer.

16 **track indicators** are arranged in a 4x4 grid of dots or squares next to the **In** and **Out** boxes. Dots indicate empty/unused tracks. Solid squares indicate used tracks. The outlined square indicates the currently selected track.

To select a track, use the Trk field.

Trk is the current track number and its name.

To select a track, use this field.

To edit the track, select this field, and then press Window. Use the buttons in the Edit Current Track screen that appears:

- F2/Clear clears all events from the track and resets all of its settings. Press F4/OK to continue or F3/Cancel to return to the previous screen.
- **F3/Explode** immediately splits the current track into multiple tracks—one for each distinct pad or note (pitch, not event). The current track will also remain present and intact, while each track created from it is labeled with the track name and pad name or number.
- **F4/Copy** copies the contents of one track to another. **Copy Contents of Track** is the "source" track whose events you want to copy. **Over Contents of Track** is the "destination" track where the source track will be copied. Set each field to the desired track. Press **F5/Do It** to continue or **F4/Back** to return to the previous screen.
- **F5/Close** returns to the previous screen.

Pgm is the program used by the current track.

To select a program, use this field.

To edit the program, select this field, and then press Window. In the Edit Program screen that appears:

- **F2/Delete** erases **all** events from the track and resets **all** of its settings. Press **F4/Delete** to continue or **F3/Cancel** to return to the previous screen.
- **F3/New** creates a new program. **New Name** is the name that the new program will use. **Type** is the type of program.
- **F4/Copy** immediately creates an identical program. The duplicate program will use the same name but appended with a number (e.g., **Drums-1**).
- **F5/Close** returns to the previous screen.

Type shows the type of program through which the track is being routed. The specific program name is displayed by the **Pgm** field.

To select a program type, use this field to select a drum program (Drum), plugin program (Plugin), MIDI program (Midi), keygroup program (KGrp), clip program (Clip), or CV program (CV).

The screen may show additional fields, depending on the type of program:

- **Drum Program**: (no additional fields)
- Plugin Program:

Note: You have to specify the disk directory where your plugins are located. This can be done in the software's **Preferences**. To see the user guide in the MPC software and learn how to do this, click the **Help** menu, select **MPC Help**, and select **MPC User Manual**.

Plg is the preset (if any) within the plugin the program is using.



To select a preset, select this field, and then press Window. In the screen that appears, select the desired preset, and press F5/Select to continue or F4/Close to return to the previous screen. You can press F2/AutoSel to activate or deactivate automatic selection, which will automatically load each preset as you move through the list.

Ch is the MIDI channel the program uses. Use this setting when you are working with a virtual instrument plugin that supports multi-mode.

To select a MIDI channel, use this field.

• MIDI Program:

Port is the port over which the program sends its MIDI data.

Note: You also have to configure the MIDI ports in the **Preferences**. To see the user guide in the MPC software and learn how to do this, click the **Help** menu, select **MPC Help**, and select **MPC User Manual**.

To select a port, use this field.

PC is the program change message the program sends out.

To select a program change message, use this field.

To set the MSB and LSB (Most Significant Byte and Least Significant Byte), select this field, and then press Window. In the screen that appears, set **Bank Enable** to **ON** or **OFF**. When set to **ON**, select the **Bank MSB** or **Bank LSB** values. Press **F4/Close** to return to the previous screen.

Ch is the MIDI channel the program uses. Use this setting when you are working with a virtual instrument plugin that supports multi-mode.

To select a MIDI channel, use this field.

- Keygroup Program: (no additional fields)
- Clip Program: (no additional fields)
- CV Program:

Port is the port over which the program sends its MIDI data.

Note: You also have to configure the MIDI ports in the **Preferences**. To see the user guide in the MPC software and learn how to do this, click the **Help** menu, select **MPC Help**, and select **MPC User Manual**.

To select a port, use this field.

PC is the program change message the program sends out.

To select a program change message, use this field.

To set the MSB and LSB (Most Significant Byte and Least Significant Byte), select this field, and then press Window. In the screen that appears, set **Bank Enable** to **ON** or **OFF**. When set to **ON**, select the **Bank MSB** or **Bank LSB** values. Press **F4/Close** to return to the previous screen.

Ch is the MIDI channel the program uses. Use this setting when you are working with a virtual instrument plugin that supports multi-mode.

To select a MIDI channel, use this field.

Length determines how long the track is in beats. If you select the minimum value, Seq (or 0), the track will be the exact same length as its sequence.

Tip: This feature lets you maintain tracks of different lengths. For instance, you could play a 1-bar drum sequence repeatedly under a 4-bar bass line.

To set the track length, use this field.

Rec Arm shows whether or not the track will be record-enabled (**ON**) or not (**OFF**). When you begin recording, the MIDI data will be recorded to this track.

To record-arm or record-disarm the track, set this field to ON or OFF (respectively).

Mon determines the monitoring behavior of the track.

To select a monitoring option, use this field to select an option:

- Off: The track's MIDI input is not monitored, and playback of recorded events will be heard. This setting is useful when using keyboards with Local Control active.
- In: The track's MIDI input is always monitored regardless of the track's Record Arm state, and playback from recorded events will not be heard.
- Auto: The track's MIDI input is monitored when the track is record armed, and playback of recorded events will be heard.
- Merge: The track's MIDI input is always monitored, and playback of recorded events will be heard.

The parameter in the lower-right corner varies depending on the last parameter you adjusted in its sub-window.

Now:001:01:00	Bar:1 Pad:A.111
Seq:001 - Sequence 01	Loop: ON In
Bem: 80.79 (<u>Mst</u>) Bars: 2	Tran: Off Out 🗄 **: 🛄
Trk:001 -Drums	Len: SEQ Type: Drum
Pam: Drums	Vel%: 100
T.C. Bar- Bar+	Pad Sel Pad- Pad+

Prosn:	Inserts	-	Track	h	
Level: -0.76dB	Send1: 45	1: Disto.on	Ame	Trans: Off	
Pan: 1 R	Send2: 0	2:Compr.r C)eto	Level: 95	
Mute:	Send3: 0	3:LP Filter		Pan: 4 L	
Automation:R	Send4: 0	4: MPC3000		Ve1%: 100	
		••• Close			

To adjust the parameter, use this field.

To edit the parameters in its sub-window, select this field, and then press Window. Use the fields and buttons in the screen that appears (MIDI programs or CV programs will show only the fields under the **Track** column):

Level is the volume level of the program (if it is under **Program**) or track (if it is under **Track**). (You can also use the **numeric keypad** to change this number.)

Pan is the panning position of the program (if it is under **Program**) or track (if it is under **Track**) in the stereo field: **50 L** (left) to **50 R** (right). **C** indicates the center position. (If you use the **numeric keypad** to change this number, use values from **0** to **100**: **0** corresponds to **50 L**, **50** corresponds to **C**, and **100** corresponds to **50 R**.)

Mute determines whether or not the program is muted (**Mute**) or not (____).

Automation is the program's automation status.

When off (x), the program will ignore automation data. If you have already recorded or entered automation, this will switch between Read (R) and Write (W) only, but you can override this and turn it off by pressing and holding **Shift** while pressing the button.

Important: If you have already recorded automation and turn it off, the track will still use the effect and its parameter values at the point where you turned it off.

When set to **Read** (**R**), the program will read automation data but will not record any additional automation over it. (Think of this as a protective feature to prevent accidental changes to your automation while recording.)

When set to **Write** (**W**), the program can record automation. (If you have any Q-Link knobs assigned to automatable parameters, make sure not to touch any accidentally while you are recording.)

Tip: See **General Features** > **Automation** to learn about setting global automation or automation for individual programs and audio tracks.

Send1–4 show the send levels of the program (0–100).



Inserts 1-4 show the insert effects loaded to the program.

To load an effect, use its Insert field. Select an effect in the Select Effect screen that appears. Press F4/Select to load the selected effect or F3/Back to return to the previous screen.

To change the settings of a loaded effect, select its **Insert** field, and press **Window**. In the screen that appears, you can select and change each parameter (you can use the **numeric keypad** on some of them). Press **F4/Close** to return to the previous screen.

To activate or deactivate an effect, select its Insert field, and press Window. In the screen that appears, press F6/On/Off to activate or deactivate the effect. Press F4/Close to return to the previous screen.

Tran is the transposition (in semitones) of the track: -24 to +24. Off indicates no transposition (0 semitones).

Vel% determines how loudly or quietly a track plays relative to its recorded levels. When set to **50%**, the track will be played with half the velocity it was originally played. When set to **200%**, the track will play twice as loud. The maximum velocity level is still **127**, though.

F4/Close returns to the previous screen without confirming your changes.

F5/Set confirms your changes and returns to the previous screen.

You can also use the Q-Link knobs to adjust the velocity of the note event at each step. The numbers of the steps that correspond to the Q-Link knobs will be shown in the screen.

To show the step numbers in the screen, press Shift+Prog Edit/Q-Links, and then press F5/Screen. Press F6/Parameter/Value to switch between viewing the parameter names (Parameter) and values (Value) in the screen.

To adjust the velocity of each note event, use the corresponding Q-Link knob to select a value (1-127).

To enter a note event at a step, use the corresponding Q-Link knob to change its velocity from 0 (Off) to a value of 1 or greater.

To delete a note event from a step, set the corresponding Q-Link knob to its minimum position, 0 (Off).

STEP 13	STEP 14	STEP 15	STEP	16
STEP 9	STEP 10	STEP 11	STEP	12
STEP 5	STEP 6	STEP 7	STEP	8
STEP 1	STEP 2	STEP 3	STEP	4
Project	Program Pad Scen	e Pad Param	Screen	Parameter

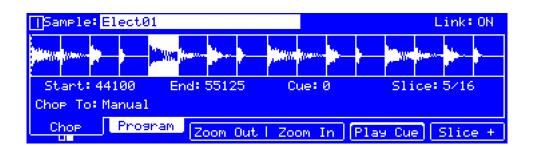
VELOCITY:	11	OFF			VELC	OCITY:	50	OFF	
VELOCITY:	39	OFF			OFF			OFF	
OFF		VELO	CITY	18	OFF			VELO	ITY: 102
VELOCITY:	127	VELO	CITY	36	OFF			VELO	ITY: 19
Project	Phos	anam j	Pad	Scene	Pad	Panam	Son	een	Value

Sample Edit Mode

Sample Edit Mode lets you edit samples in three different sub-modes: **Trim Mode**, **Chop Mode**, or **Program Mode**. Each mode has slightly different functions and methods of operation. Please refer to the *Trim Mode*, *Chop Mode*, and *Program Mode* parts of this chapter to learn how each works.

To enter Sample Edit Mode, press Sample Edit.

<mark>[</mark> Sample: 1980Ki	ck1	LOOP LO	ock∶ON Link∶ON
MMMMMMMM			
MALLANDOANDANDANDAN		D45000000000000000000000000000000000000	
Start:0	End: 69671	LOOP: 0	Slice:All
BPM: 151.91	Note: C3	Loop: Off	Tune: 0.00
Trim Pros	ram <mark>Zoom Out</mark> I	Zoom In A	ssian Process
	Leson caron		



[[Sample: Snr:	5m113	LOOP	Lock: ON	
la by dividentia minima and Devidentia inconstruction				
PStart:0	PEnd: Ø	PLoop:0 Loop:0ff	Slice	e‡ Pad
Trim P	rogram Zoom Ou	t Zoom In	Assign	Process

Use the **cursors** to select each field, and then use the **data dial** or -/+ buttons to change the parameter. If the field is a number, you can use the **numeric keypad** to enter a number and then press **Enter** to confirm it.

Some information shown on this screen is common to all Sample Edit Modes, while other information is used for Trim Mode only, Chop Mode only, or Program Mode only.

Tip: You can use Trim Mode for a specific slice of the sample, previously created and selected in Chop Mode. This allows for a more detailed view of a single slice than in Chop Mode and gives you more options for auditioning the slice. You can easily switch between Trim Mode and Chop Mode while doing this.

To use both Trim Mode and Chop Mode to edit a sample slice:

- 1. Press **F1/Trim/Chop** so it shows the **Chop** tab (Chop Mode).
- 2. Set all fields as desired to create your sample slices.
- 3. Set **Slice** to the desired slice.
- 4. Press **F1/Trim/Chop** so it shows the **Trim** tab (Trim Mode). The region you are now editing is indicated by the normal start point and end point markers rather than slice markers.
- 5. Press F1/Trim/Chop so at any time to return to the Chop tab (Chop Mode).

Trim Mode

We recommend using Trim Mode to simply crop the start and/or end from a sample.

To enter Trim Mode, press F1/Trim/Chop.

<mark>[</mark> Sample: 1980Ki	ck1	LOOP LO	ock:ON Li	ink‡ ON
MAMMAMAAA		8888888888888888		
MAAAAAAAaaaaa	100200500000000000000000000000000000000			
Start:0	End: 69671	LOOP: 0	Slice: A	411
BPM: 151.91	Note: C3	Loop: Off	Tune:	0.00
Trim Pros	ram Zoom Out	Zoom In F	lssi9n P	rocess
	Zoom Out	Zoom In F	<u>Issian P</u>	rocess

These are the buttons under the screen in Trim Mode:

F1	Trim	Press this button to switch between Trim Mode and Chop Mode. See Chop Mode to learn about it.
F2	Program	Press this button to enter Program Mode. See Program Mode to learn more.
F3	Zoom Out	Press this button to zoom out of the waveform.
F4	Zoom In	Press this button to zoom in on the waveform.
F5	Assign	Press this button to show the Assign Sample screen, where you can assign the sample to a program or pad. See <i>Trim Mode</i> > <i>Assigning Samples</i> to learn more.
F6	Process	Press this button to show the Process Slice screen, where you can select different ways in which to process the slice. See <i>Trim Mode</i> > <i>Processing Slices & Samples</i> to learn more.
Shift+F3	0 Snap	Press these buttons to activate or deactivate 0 Snap, which forces start points, end points, and loop points to occur only at the waveform's "zero-crossings." This can help prevent clicks and glitches when playing a sample.
Shift+F4	Loop	Press these buttons to switch the loop function between Fwd and Off . See the loop function described <i>here</i> .

Sample is the sample you are currently editing.

To select a sample, use this field.

Loop Lock determines whether or not the Loop Lock feature is on. When set to **ON**, the sample's loop point is the same as the start point. When set to **OFF**, the loop point is independent from the start point and indicated by a separate marker.

To turn Loop Lock on or off, set this field to ON or OFF (respectively).

Link determines whether or not the Link feature is activated. When activated (**ON**), changing the start point of a slice will also change the end point of the previous slice—and similarly, changing the end point of a slice will also change the start point of the next slice. You must have already created slices in Chop Mode to use this. Set **Link** to **OFF** if you are trying to create slices that use non-contiguous parts of the sample.

To enable or disable Link, set this field to ON or OFF (respectively).

Important: Link must be disabled (OFF) to make slices non-sequential, non-contiguous, or overlapping.





The **waveform** shows the "active" section of the sample's waveform. The highlighted section of the waveform is the currently selected part.

To zoom in on or zoom out of the waveform, press F4/Zoom In or F3/Zoom Out (respectively). Alternatively, turn Q-Link Knob 4 (MPC Renaissance) or the fourth Q-Link knob in the fourth column (MPC Studio).

To scroll through the waveform, turn Q-Link Knob 8 (MPC Renaissance) or the third Q-Link knob in the fourth column (MPC Studio).

Start is the start point of the sample or currently selected slice.

End is the end point of the sample or currently selected slice.

To change the start point or end point, do either of the following:

- Use the Start or End field (respectively).
- Use the first or second column of Q-Link knobs (respectively). The top-most Q-Link knob (13 and 14) in each column provides coarse adjustment. The bottom-most Q-Link knobs (1 and 2) provide fine adjustment.

Tip: A recorded sample may have some silence at the beginning or end, which makes it difficult to time it correctly in a musical context. Fix this by adjusting the start point. You can also adjust end point to remove any extra silence or unwanted audio at the end. In addition to making your workflow easier, having a "tight," well-edited sample can enhance your production or performance.

Loop is the loop point of the sample or currently selected slice, which appears as a solid vertical line in the waveform. When the Loop feature is on, the region of the sample between the loop point and end point will repeat. This is useful when trying to find an ideal spot to begin the sample. The loop cannot be earlier than the start point.

To change the loop point, do either of the following:

- Use this field.
- Use the **third** column of **Q-Link knobs**. The top-most **Q-Link knob** (15) provides coarse adjustment. The bottom-most **Q-Link knobs** (3) provides fine adjustment.

Slice is which slice of the sample you are editing. You must have already created slices in Chop Mode to use this. **0** corresponds to **All**.

To select a slice to edit (after you have created slices in Chop Mode), use this field or turn Q-Link Knob 16.

BPM is the tempo of the sample.

To enter a tempo manually, use the integer or decimal field.

To detect the tempo automatically, select the integer or decimal field, and then press **Window**. Use the fields and buttons in the **Edit BPM** window that appears:

- Use the integer or decimal **BPM** field to enter a tempo manually.
- F2/Detect detects the tempo of the sample automatically.
- Press **F3/Tap Tempo** at the desired rate to use it as the tempo. You can play a sequence in the background to help with your timing.
- **F5/Close** returns to the previous screen.

Note: Before detecting tempo, it is recommended that you Normalize samples for best results.

Note is the root note of the sample. This determines which note will play the sample at its original pitch when in a keygroup program.

To set the root note, use this field.

Loop determines how the sample is currently being looped. When the Loop feature is on, the region of the sample between the loop point and end point will repeat. This is useful when trying to find an ideal spot to begin the sample. The loop cannot be earlier than the start point.

To set how the sample loops, use this field to select an option:

- **Off**: The sample will not loop.
- Forward (Fwd): When the loop reaches its end point, it will start playing again from the loop point.
- Alternating (Alt): When the loop reaches its end point, it will play in reverse. When it reaches the loop point again, it will start playing forward again from the loop point.
- **Reverse** (**Rev**): When the loop reaches its end point, it will play in reverse. When it reaches the loop point again, it will return to the end point and continue playing in reverse.

To switch between Fwd and Off, press Shift+F4/Loop.

Tune determines the sample's tuning relative to its original pitch.

To tune the sample manually, use the integer or decimal field.

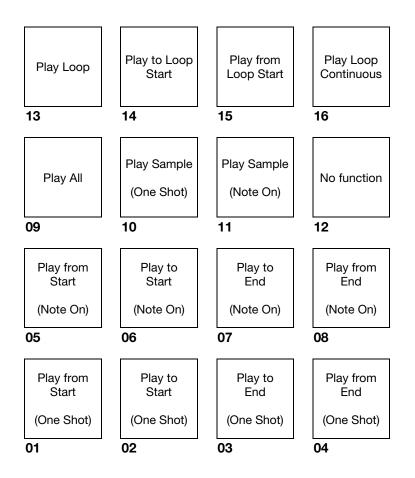
To tune the sample automatically, select the integer or decimal field, and then press **Window**. Use the fields and buttons in the **Edit Tuning** window that appears:

- Number Of Beats defines how many beats are in the sample according to the tempo.
- **F4/Match** automatically tunes the sample to the sequence and returns to the previous screen.
- **F2/To Seq** automatically tunes the sample to the sequence, returns to the previous screen, and matches the sequence's tempo to the **Tempo** value from this screen.
- Use the integer or decimal **Tune** field to tune the sample manually.
- **F5/Close** returns to the previous screen.

0 Snap forces start points, end points, and loop points to occur only at the waveform's "zero-crossings." This can help prevent clicks and glitches when playing a sample.

To enable or disable 0 Snap, press Shift+F3/0 Snap.

Use your MPC hardware pads to play certain parts of the selected sample:



Play Sample (One Shot) (Pad 10) plays the sample once from the start point to the end point. Press the pad once to play it.

Play Sample (Note On) (Pad 11) plays the sample once from the start point to the end point. Press and hold the pad to play it, and release the pad to stop playing it.

Play Loop Continuous (Pad 16) plays the sample repeatedly using the mode set by the Loop button (Forward, Reverse, or Alternating; if the Loop button is off, the sample will loop forward repeatedly).

Play Loop (**Pad 13**) plays the sample repeatedly using the mode set by the **Loop** button (**Forward**, **Reverse**, or **Alternating**; if the **Loop** button is off, the sample will loop forward repeatedly). Press and hold the pad to play it, and release the pad to stop playing it.

Play to Loop Start (Pad 14) plays the part of the sample just before the loop point. Press and hold the pad to play it, and release the pad to stop playing it.

Play from Loop Start (Pad 15) plays the sample from the loop point to the end of the sample regardless of the end point. Press and hold the pad to play it, and release the pad to stop playing it.

Play All (Pad 9) plays the entire sample.

Pads 1–4 have the same respective functions as **Pads 5–8**, but **Pads 1–4** play the sample part as "**One Shots**" (pressing the pad once will play the entire part) while **Pads 5–8** play the sample part as "**Note Ons**" (pressing the pad and holding it will play the part; releasing it will stop playback):

Play from Start (Pad 1, Pad 5) plays the sample from the start point to the end point.

Play to Start (Pad 2, Pad 6) plays the part of the sample just before the start point to the start point.

Play to End (Pad 3, Pad 7) plays the part of the sample just before the end point to the end point.

Play from End (Pad 4, Pad 8) plays the part of the sample from the end point to the end of the sample.



Assigning Samples

You can assign your new sample directly to a pad from Trim Mode.

Important: Assigning a sample to a pad in this way will replace the sample on the first layer of the pad.

To assign a sample, press F5/Assign, and use the fields and buttons in the Assign Sample window that appears.

Assign To determines how the sample will be assigned.



Assign slice to a pad refers the pad to the slice in this sample instead of creating a new sample. This is useful for reducing clutter in your project.

Pad determines the pad to which the slice will be assigned. You can also press a pad to select it.

Slice Type determines how the pad's layer settings will be set when the slice is assigned to it (see *Program Edit Mode* to learn more about the parameters mentioned below):

- Non-Destructive Slice sets each pad's Slice setting to the slice number.
- **Pad Parameters** sets each pad's **Slice** setting to **Pad**. The pad **Start** and **End** parameters will be set to the slice's start point and end point values, and the **Loop** position parameter will be set to the slice's start point but with **Pad Loop** deactivated.

Program determines the program to which the slice will be added.

\Box_{i}	-	Assign S	Sample		
		Assign to: Make N	√ew Sample		
		Pad: A01			
		Crop Sample: ON			
		Program: Drums			
ų,			Close	Do It	

Make new sample creates a new sample in your project. The original sample will remain as it is.

Pad determines the pad to which the slice will be assigned. You can also press a pad to select it.

Crop Sample determines whether or not the sample will be cropped. When set to **ON**, the unused parts of the sample will be deleted when it is created and assigned. This feature is destructive, though the project will still contain your original sample. When set to **OFF**, the sample will not be cropped, enabling you to edit the sample further even if you are using only part of it at the moment.

Program determines the program to which the slice will be added.

F5/Do It assigns the sample and returns to the previous screen.

F4/Close returns to the previous screen without assigning the sample.



Processing Slices & Samples

To apply various editing processes to the sample, press F6/Process, and use the fields and buttons in the Process Slice window that appears.

-	Process	Slice		
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			÷	
	LERT: Pressing 'Do It ata beyond the START			
		Cancel	Do It	ر ب یسینی

Function determines how the sample will be processed.

Note: Almost all processes will affect only the part of the sample between the start point and the end point. Only **Bit Reduce** and **Stereo -> Mono** will affect the **entire** sample regardless of its start point or end point.

Discard deletes the regions before the start point and after the end point.

Delete deletes the region between the start point and end point and closes the gap between them.

Silence replaces the region between the start point and end point with silence.

Extract deletes the regions before the start point and after the end point and saves it as a new sample in your current project.

Tip: This is useful if you recorded a drum loop and wanted to remove just a snare drum hit, a kick drum hit, etc. to use separately in the project.

Normalize increases a sample's level to the highest level possible without distortion. This is essentially a kind of digital gain optimization, so you do not have to worry about excessive level settings when working with samples with a wide range of amplitudes.

Reverse reverses the region between the start point and end point.

Fade In sets a fade-in between the start point and end point. Use the Type field to set the curve of the fade:

- Linear fades the audio in with a linear curve—a straight line between the start and end.
- Log fades the audio in with a logarithmic curve—quickly rising at the start and flattening out towards the end.
- **Exp** fades the audio in with an exponential curve—slowly rising in the beginning and growing steeper towards the end.

Fade Out sets a fade-out between the start point and end point. Use the Type field to set the curve of the fade:

- Linear fades the audio out with a linear curve—a straight line between the start and end.
- Log fades the audio out with a logarithmic curve—quickly rising at the start and flattening out towards the end.
- **Exp** fades the audio out with an exponential curve—slowly rising in the beginning and growing steeper towards the end.

Pitch Shift changes the pitch of the sample without changing its length. This lets you set the sample's pitch to your sequence without affecting the sample's tempo or duration. Use the **Pitch** field to determine the amount: **-12.00** to **12.00** semitones. **0** corresponds to no pitch shift. Keep in mind that the audio quality may decrease at more extreme settings.

Time Stretch lengthens or shortens the sample without changing its pitch. This is useful for matching the durations of two samples with different pitches.

- Number Of Beats determines the desired number of beats according to the new tempo.
- New determines the new tempo (Ratio will then automatically show the time stretch factor).
- **Ratio** is the time-stretch factor of the process (**New** will then automatically change based on this time stretch factor).

Gain Change raises or lowers the volume of the sample. Use the **Gain Amount** field to determine the amount: -18 to 18 dB. 0 corresponds to no gain change. This function is different than Normalize because it will allow volumes beyond clipping level. This may be a desired effect, but remember to watch your output level!

Copy saves a copy of the sample.

Bit Reduce lowers the bit resolution of a sample, effectively reducing its degree of faithful reproduction. Use the **Bit Depth** field to determine the bit depth of the resulting sample: **1–16** bits. The sound is similar to the Resampler effect, but Bit Reduce will permanently alter the sample.

Tip: Use this on drum loops to get a dirty, "old-school" sizzle but with a digital "edge."

Note: This process affects the entire sample regardless of its start point or end point.

Stereo -> Mono converts a stereo sample to a new mono sample and saves it as a new sample. Use the **Source** field to determine which channels are converted:

- Left converts the left channel only.
- **Right** converts the right channel only.
- **Sum** combines the left and right audio channels to a single mono channel.

Note: This process affects the entire sample regardless of its start point or end point.

F5/Do It applies the process to sample and returns to the previous screen.

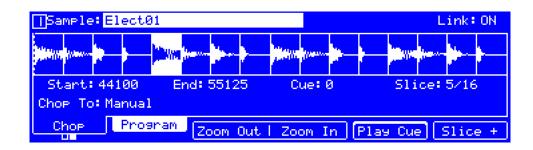
F4/Cancel returns to the previous screen without applying any process.



Chop Mode

Whereas Trim Mode crops only the start and/or end off of a sample, Chop Mode divides the sample into multiple regions called **slices**. We recommend using Chop Mode when working with a long sample with different sounds throughout (e.g., a drum loop or a long melodic or harmonic passage).

To enter Chop Mode, press F1/Trim/Chop.



These are the buttons under the screen in Chop Mode:

F1	Chop	Press this button to switch between Trim Mode and Chop Mode. See <i>Trim Mode</i> to learn about it.
F2	Program	Press this button to enter Program Mode. See Program Mode to learn more.
F3	Zoom Out	Press this button to zoom out of the waveform.
F4	Zoom In	Press this button to zoom in on the waveform.
F5	Play Cue	Press this button to play the sample from the cue playhead.
F6	Slice +	Press this button to create a slice marker at the cue playhead position. You can do this at any point during sample playback.
Shift+F1	One Shot	Press these buttons to enable or disable the One Shot feature. When enabled, pressing a pad once plays the entire slice. When disabled, pressing the pad and holding it plays the slice and releasing it stops playback.
Shift+F2	0 Snap	Press these buttons to activate or deactivate 0 Snap, which forces start points, end points, and loop points to occur only at the waveform's "zero-crossings." This can help prevent clicks and glitches when playing a sample.
Shift+F3	Process	Press these buttons to show the Process Slice screen, where you can select different ways in which to process the slice. See <i>Chop Mode</i> > <i>Processing Slices</i> to learn more.
Shift+F4	Convert	Press these buttons to show the Convert or Assign Slices screen, where you can convert and assign the sample to a program or pad. See <i>Chop Mode</i> > <i>Converting or Assigning Slices</i> to learn more.
Shift+F5	Clear All	Press these buttons to remove all slice markers from the sample.
Shift+F6	Slice –	Press these buttons to remove the slice marker before the current playhead position from the sample.

Sample is the sample you are currently editing.

To select a sample, use this field.

Link determines whether or not the Link feature is activated. When activated (**ON**), changing the start point of a slice will also change the end point of the previous slice—and similarly, changing the end point of a slice will also change the start point of the next slice. You must have already created slices in Chop Mode to use this. Set Link to **OFF** if you are trying to create slices that use non-contiguous parts of the sample.

To enable or disable Link, set this field to ON or OFF (respectively).

Important: Link must be disabled (OFF) to make slices non-sequential, non-contiguous, or overlapping.

The **waveform** shows the "active" section of the sample's waveform. The highlighted section of the waveform is the currently selected part.

To zoom in on or zoom out of the waveform, press F4/Zoom In or F3/Zoom Out (respectively), or turn Q-Link Knob 4 (MPC Renaissance) or the fourth Q-Link knob in the fourth column (MPC Studio).

To scroll through the waveform, turn Q-Link Knob 8 (MPC Renaissance) or the third Q-Link knob in the fourth column (MPC Studio).

Start is where the currently selected slice starts in the sample.

End is where the currently selected slice ends in the sample.

To change the start point or end point, do either of the following:

- Use the Start or End fields (respectively).
- Use the first or second column of Q-Link knobs (respectively). The top-most Q-Link knob (13 and 14) in each column provides coarse adjustment. The bottom-most Q-Link knobs (1 and 2) provide fine adjustment.

Tip: A recorded sample may have some silence at the beginning or end, which makes it difficult to time it correctly in a musical context. Fix this by adjusting the start point. You can also adjust end point to remove any extra silence or unwanted audio at the end. In addition to making your workflow easier, having a "tight," well-edited sample can enhance your production or performance.

Cue is the position of the cue playhead, which appears as a dotted vertical line in the waveform. This is useful when manually inserting slice markers. You can set its position and behavior to suit your workflow.

To set the position of cue playhead, use this field.

To play the sample from the cue playhead, press F5/Play Cue.

To create a slice marker at the cue playhead position, press F6/Slice +.

To set how the cue playhead behaves, select Start, End, or Cue, and then press Window. Use the fields and button in the Cue Play Mode screen that appears:

Cue Play Mode determines how the cue playhead will play audio. When set to One Shot, pressing **Play Cue** will play the entire sample from the cue playhead. When set to **Toggle**, pressing **Play Cue** will start or stop playback from cue playhead.

Cue Preview determines if/how audio plays as you move the cue playhead. As you move the cue playhead through the sample waveform, you can set it to play the small part of the sample before the cue playhead (**Before**), play the small part of the sample after the cue playhead (**After**), or not play at all (**Off**).

Slice Preview determines if/how audio plays as you move a slice marker. As you move a slice marker through the sample waveform, you can set it to play the small part of the sample before the slice marker (**Before**), play the small part of the sample after the slice marker (**After**), or not play at all (**Off**).

F4/Close returns to the previous screen.

Slice determines which slice of the sample you are editing. You must have already created slices in Chop Mode to use this. 0 corresponds to All.

To select a slice to edit (after you have created slices in Chop Mode), use this field or turn **Q-Link Knob 16** (MPC Renaissance) or the first **Q-Link knob** in the fourth column (MPC Studio).

To split or combine slices, select this field, and then press Window. Use the buttons in the Split/Combine Slice screen that appears:

- Split places a slice marker halfway through the current slice, dividing it into two equal slices.
- **Combine** removes the start point of the current slice, consolidating it with the slice before it.
- **Back** returns to the previous screen without splitting or combining any slices.

Chop To determines how you want to use Chop Mode:

To select a method, select this field, and then press Window. Use the field in the Chop Mode screen that appears, and then press F5/Do It to continue or F4/Close to return to the previous screen.

- Manual lets you insert slices at locations you select.
- **Threshold** uses an adjustable detection algorithm that derives the number of slices created from the volume levels present in the sample.
- Regions divides a sample into several slices of equal length.
- BPM divides a sample into several slices based on the tempo (beats per minute).

The screen may show additional fields, depending on the type of program:

Manual: (no additional fields)

Threshold:

Threshold determines the threshold level. The higher the selected value, the more slices will be created.

To set the threshold, use this field or turn Q-Link Knob 11 (MPC Renaissance) or the second Q-Link knob in the third column (MPC Studio).

Min Time determines the minimum length of a slice in milliseconds.

To set the minimum time, use this field.

Regions:

Regions determines how many slices into which the sample will be divided. The higher the selected value, the more slices will be created.

To set the number of regions, use this field or turn **Q-Link Knob 11** (MPC Renaissance) or the second **Q-Link knob** in the third column (MPC Studio).

BPM:

Bars determines how many bars are in the sample.

To set the number of bars, use this field or turn **Q-Link Knob 11** (MPC Renaissance) or the **second Q-Link knob** in the **third column** (MPC Studio).

Beats determines how many beats are in each bar.

To set the number of beats, use this field or turn Q-Link Knob 7 (MPC Renaissance) or the third Q-Link knob in the third column (MPC Studio).

Time Div shows the note division. The slice markers will be placed according to this setting. You can select 1/4, 1/8, 1/16, or 1/32. (In most cases, you should set this parameter to 1/16.)

To set the time division, use this field or turn Q-Link Knob 3 (MPC Renaissance) or the fourth Q-Link knob in the third column (MPC Studio).

One Shot determines how a slice is played when you press its corresponding pad. When enabled, pressing a pad once plays the entire slice. When disabled, pressing the pad and holding it plays the slice and releasing it stops playback.

To enable or disable One Shot, press Shift+F4/One Shot.

0 Snap forces start points, end points, and loop points to occur only at the waveform's "zero-crossings." This can help prevent clicks and glitches when playing a sample.

To enable or disable 0 Snap, press Shift+F3/0 Snap.

You can create or remove slice markers at the current cue playhead position while your sample is playing or stopped.

To create a slice marker at the cue playhead position, press F6/Slice +.

To remove the slice marker before the current playhead position from the sample, press Shift+F6/Slice -.

To remove all slice markers from a sample, press Shift+F5/Clear All.

To insert a slice marker during sample playback, press an unlit pad (usually Pad 1) to start playback of the sample, and then press an unlit pad during playback to place a slice marker at each location of the playhead. (If you press a lit pad, playback will restart from that pad's corresponding slice marker.) The number of the pad that is lit green is the number of the most-recently inserted slice marker. The numbers of the pads that are lit yellow are the numbers of the slice markers that are already inserted.

Converting or Assigning Slices

You can assign your new sample directly to a pad from Chop Mode. You can also convert it into a new program or patched phrase.

To convert or assign a sample, press Shift+F4/Convert, and use the fields and buttons in the Convert or Assign Slices window that appears.

Convert To determines how the sample will be assigned.

	Convert or As	sian Slic	es			
	Convert To: New D	rum Progra	am Using S	lices		
	Slice Type:Non-D	setenetine	Slice			
	Create Events: ON					
	Number Of Bars:2					
	number of bars+ 2	Cancel	Do It	i i i i i i i i i i i i i i i i i i i		

New drum program using slices creates a new drum program and assign the sample's slices to its pads. The pads will simply refer to the slices in this sample instead of creating new samples. This is useful for reducing clutter in your project. The new program will be named after the sample and appended with **ch**.

Slice Type determines how each pad's layer settings will be set when the slices are assigned to them (see *Program Edit Mode* to learn more):

- Non-Destructive Slice sets each pad's Slice setting to the slice number.
- **Pad Parameters** sets each pad's **Slice** setting to **Pad**. The pad **Start** and **End** parameters will be set to the slice's start point and end point values, and the **Loop** position parameter will be set to the slice's start point but with **Pad Loop** deactivated.

Create Events, when set to **ON**, automatically creates a new track for the new program in which each pad plays its corresponding slice in ascending sequence by pad number. When set to **OFF**, the program will be added to the project without a track.

Number Of Bars determines how many bars the slices' events will occupy. This is available only if Create Events is set to ON.

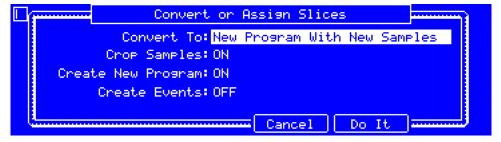
 Convert or Assign Slices
Convert To: New Clip Program
Tempo: 120.00
Create Events: ON
Number Of Bars: 2
 Cancel Do It

New clip program creates a new clip program and assigns the sample's slices to its pads as clips. The pads will simply refer to the slices in this sample instead of creating new samples. This is useful for reducing clutter in your project. The new program will be named after the sample and appended with **ch**.

Tempo is the tempo of the clips in the new program.

Create Events, when set to **ON**, automatically creates a new track for the new program in which each pad plays its corresponding slice in ascending sequence by pad number. When set to **OFF**, the program will be added to the project without a track.

Number Of Bars determines how many bars the slices' events will occupy. This is available only if Create Events is set to ON.



New program with new samples creates a new sample from each slice and assign them to pads in a new program. The new program (if **Create New Program** is set to **ON**) will be named after the sample and appended with **ch**. The new samples will be appended with **SI-#** (where **#** is a consecutive number).

Crop Samples determines whether or not the sample will be cropped. When set to **ON**, the unused parts of the sample will be deleted when it is created and assigned. This feature is destructive, though the project will still contain your original sample. When set to **OFF**, the sample will not be cropped, enabling you to edit the sample further even if you are using only part of it at the moment.

Create New Program, when set to **ON**, creates a new drum program and assigns the sample's slices to its pads. When set to **OFF**, each slice will be converted into a sample that is placed in the project's sample pool but not assigned to a program or pad.

Create Events, when set to **ON**, automatically creates a new track for the new program in which each pad plays its corresponding slice in ascending sequence by pad number. When set to **OFF**, the program will be added to the project without a track. This is available only if **Create New Program** is set to **ON**.

Number Of Bars determines how many bars the slices' events will occupy. This is available only if Create Events is set to ON.



Assign Slice to Pad sets a pad to simply refer to the slice in this sample instead of creating a new sample. This is useful for reducing clutter in your project.

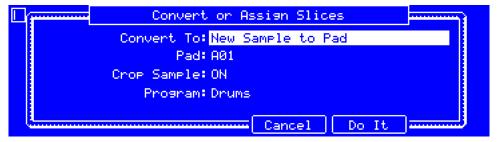
Important: Assigning a sample to a pad in this way will replace the sample on the first layer of the pad.

Pad is the desired pad. (You can also press the desired pad to select it.)

Slice Type determines how each pad's layer settings will be set when the slices are assigned to them (see *Program Edit Mode* to learn more):

- Non-Destructive Slice sets each pad's Slice setting to the slice number.
- **Pad Parameters** sets each pad's **Slice** setting to **Pad**. The pad **Start** and **End** parameters will be set to the slice's start point and end point values, and the **Loop** position parameter will be set to the slice's start point but with **Pad Loop** deactivated.

Program is the program to which you want to add the slice.



New Sample to Pad creates a new sample in your project. The original sample will remain as it is.

Important: Assigning a sample to a pad in this way will replace the sample on the first layer of the pad.

Pad is the desired pad. (You can also press the desired pad to select it.)

Crop Sample determines whether or not the sample will be cropped. When set to **ON**, the unused parts of the sample will be deleted when it is created and assigned. This feature is destructive, though the project will still contain your original sample. When set to **OFF**, the sample will not be cropped, enabling you to edit the sample further even if you are using only part of it at the moment.

Program is the program to which you want to add the sample.

·	Convert or Assign Slices	73
	Convert To: Patched Phrase	
	Number Of Bars: 2	
	Cancel Do It	- -

Patched Phrase creates a new sample that will play based on the tempo of your sequence and places it in the current project. The patched phrase will have the same name as the original sample but appended with **pp** and will use a different icon when viewing your project information.

Bars determines how many bars long the patched phrase is meant to be.

F5/Do It converts the sample and returns to the previous screen.

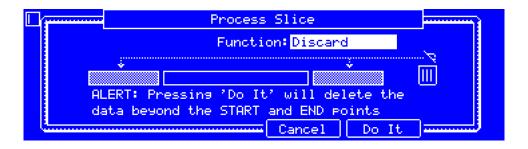
F4/Cancel returns to the previous screen without converting the sample.



Processing Slices

To apply various editing processes to the slice, press Shift+F3/Process, and use the fields and buttons in the Process Slice window that appears.

Note: All processes here will affect the currently selected slice only.



Function determines how the slice will be processed (This has fewer options than Trim Mode.).

Important: Chop Mode is non-destructive: You can choose the slice/edit behavior without destroying your original sample, giving you more control over sample playback; you can save your sliced sample and but also reuse all of the slice data in another project. See the *Program Edit Mode* chapter to learn more about setting a pad to play the entire sample, a specific slice of a sample, or a specific region of the sample (independent of its slice markers).

Silence replaces the region between the start point and end point with silence.

Extract deletes the regions before the start point and after the end point and saves it as a new sample in your current project.

Tip: This is useful if you recorded a drum loop and wanted to remove just a snare drum hit, a kick drum hit, etc. to use separately in the project.

Normalize increases a slice's level to the highest level possible without distortion. This is essentially a kind of digital gain optimization, so you do not have to worry about excessive level settings when working with samples with a wide range of amplitudes.

Reverse reverses the region between the start point and end point.

Fade In sets a fade-in between the start point and end point. Use the Type field to set the curve of the fade:

- Linear fades the audio in with a linear curve—a straight line between the start and end.
- Log fades the audio in with a logarithmic curve—quickly rising at the start and flattening out towards the end.
- **Exp** fades the audio in with an exponential curve—slowly rising in the beginning and growing steeper towards the end.

Fade Out sets a fade-out between the start point and end point. Use the Type field to set the curve of the fade:

- Linear fades the audio out with a linear curve a straight line between the start and end.
- Log fades the audio out with a logarithmic curve—quickly rising at the start and flattening out towards the end.
- **Exp** fades the audio out with an exponential curve—slowly rising in the beginning and growing steeper towards the end.

Pitch Shift changes the pitch of the slice without changing its length. This lets you set the slice's pitch to your sequence without affecting the sample's tempo or duration. Use the **Pitch** field to determine the amount: **-12.00** to **12.00** semitones. **0** corresponds to no pitch shift. Keep in mind that the audio quality may decrease at more extreme settings.

Gain Change raises or lowers the volume of the slice. Use the **Gain Amount** field to determine the amount: **-18** to **18** dB. **0** corresponds to no gain change. This function is different than Normalize because it will allow volumes beyond clipping level. This may be a desired effect, but remember to watch your output level!

F5/Do It applies the process to sample and returns to the previous screen.

F4/Cancel returns to the previous screen without applying any process.



Program Mode

Program Mode lets you edit a sample in the context of the program in which you'll use it. You can adjust the pad parameters as though you were in Program Edit Mode, auditioning and hearing how it will sound in the program's audio path.

To enter Program Mode, press F2/Program.

<mark> </mark> Sample: <mark> Snr</mark> S	m113	LOOP L	ock: ON
i a ling a lead tha tha an tha tha an			
PStart:0	PEnd: 0	PLoop:0 Loop:Off	Slice: Pad
Trim Pr	ogram Zoom O	ut Zoom In f	Assign Process

These are the buttons under the screen in Program Mode:

F1	Trim	Press this button to switch between Trim Mode and Chop Mode. See <i>Trim Mode</i> and <i>Chop Mode</i> to learn about each one.
F2	Program	Press this button to enter Program Mode.
F3	Zoom Out	Press this button to zoom out of the waveform.
F4	Zoom In	Press this button to zoom in on the waveform.
F5	Assign	Press this button to show the Assign Sample screen, where you can assign the sample to a program or pad. See <i>Trim Mode</i> > <i>Assigning Samples</i> to learn more.
F6	Process	Press this button to show the Process Slice screen, where you can select different ways in which to process the slice. See <i>Trim Mode</i> > <i>Processing Slices & Samples</i> to learn more.
Shift+F3	0 Snap	Press these buttons to activate or deactivate 0 Snap, which forces start points, end points, and loop points to occur only at the waveform's "zero-crossings." This can help prevent clicks and glitches when playing a sample.
Shift+F4	Loop	Press these buttons to switch the loop function between Fwd and Off . See the loop function described <i>here</i> .
Shift+F6	To Pad/To All	Press these buttons to switch the Slice setting between Pad and All.

Press each **pad** to hear its sample/samples. The sample on its first layer will automatically appear in the waveform display for editing.

Sample is the sample you are currently editing.

To select a sample, use this field.

Loop Lock determines whether or not the Loop Lock feature is on. When set to **ON**, the sample's loop point is the same as the start point. When set to **OFF**, the loop point is independent from the start point and indicated by a separate marker.

To turn Loop Lock on or off, set this field to ON or OFF (respectively).

The **waveform** shows the "active" section of the sample's waveform. The highlighted section of the waveform is the currently selected part.

To zoom in on or zoom out of the waveform, press F4/Zoom In or F3/Zoom Out (respectively). Alternatively, turn Q-Link Knob 4 (MPC Renaissance) or the fourth Q-Link knob in the fourth column (MPC Studio).

To scroll through the waveform, turn Q-Link Knob 8 (MPC Renaissance) or the third Q-Link knob in the fourth column (MPC Studio).

Start is the start point of the sample or currently selected slice. This is shown if Slice is set to All.

PStart is the start point of the sample or currently selected slice. This is shown if Slice is set to Pad.

End is the end point of the sample or currently selected slice. This is shown if Slice is set to All.

PEnd is the end point of the sample or currently selected slice. This is shown if **Slice** is set to **Pad**.

To change the start point or end point (when Slice it set to All), do either of the following:

- Use the Start or End field.
- Use the **first** column of **Q-Link knobs**. The top-most Q-Link knobs (13 and 14) provide coarse adjustment. The bottom-most Q-Link knobs (1 and 2) provide fine adjustment.

Tip: A recorded sample may have some silence at the beginning or end, which makes it difficult to time it correctly in a musical context. Fix this by adjusting the start point. You can also adjust end point to remove any extra silence or unwanted audio at the end. In addition to making your workflow easier, having a "tight," well-edited sample can enhance your production or performance.

Loop is the loop point of the sample or currently selected slice, which appears as a solid vertical line in the waveform. When the Loop feature is on, the region of the sample between the loop point and end point will repeat. This is useful when trying to find an ideal spot to begin the sample. The loop cannot be earlier than the start point.

To change the loop point, do either of the following:

- Use this field.
- Use the **third** column of **Q-Link knobs**. The top-most Q-Link knob (15) provides coarse adjustment. The bottom-most Q-Link knobs (3) provides fine adjustment.

Slice determines whether the waveform shows the sample as it has been edited (**Pad**) or the entire sample (**AII**). When set to **AII**, you can display the sample as it has been edited but keep the start point and end point.

To show the edited sample, set this field to Pad, or press Shift+F6/To Pad. PStart, PEnd, and PLoop will show the start, end, and loop points (respectively) of the edited sample, which will remain in their current positions.

To show the entire sample, set this field to All, or press Shift+F6/To All. Start, End, and Loop will show the start, end, and loop points (respectively) of the edited sample.

Loop determines how the sample is currently being looped. When the Loop feature is on, the region of the sample between the loop point and end point will repeat. This is useful when trying to find an ideal spot to begin the sample. The loop cannot be earlier than the start point.

To set how the sample loops, use this field to select an option:

- Off: The sample will not loop.
- Forward (Fwd): When the loop reaches its end point, it will start playing again from the loop point.
- Alternating (Alt): When the loop reaches its end point, it will play in reverse. When it reaches the loop point again, it will start playing forward again from the loop point.
- **Reverse** (**Rev**): When the loop reaches its end point, it will play in reverse. When it reaches the loop point again, it will return to the end point and continue playing in reverse.

To switch between Fwd and Off, press Shift+F4/Loop.

0 Snap forces start points, end points, and loop points to occur only at the waveform's "zero-crossings." This can help prevent clicks and glitches when playing a sample.

To enable or disable 0 Snap, press Shift+F3/0 Snap.



Assigning Samples

You can assign your new sample directly to a pad from Program Mode.

Important: Assigning a sample to a pad in this way will replace the sample on the first layer of the pad.

To assign a sample, press F5/Assign, and use the fields and buttons in the Assign Sample window that appears.

Assign To determines how the sample will be assigned.



Assign slice to a pad refers the pad to the slice in this sample instead of creating a new sample. This is useful for reducing clutter in your project.

Pad determines the pad to which the slice will be assigned. You can also press a pad to select it.

Slice Type determines how the pad's layer settings will be set when the slice is assigned to it (see *Program Edit Mode* to learn more about the parameters mentioned below):

- Non-Destructive Slice sets each pad's Slice setting to the slice number.
- **Pad Parameters** sets each pad's **Slice** setting to **Pad**. The pad **Start** and **End** parameters will be set to the slice's start point and end point values, and the **Loop** position parameter will be set to the slice's start point but with **Pad Loop** deactivated.

Program determines the program to which the slice will be added.

D	 Assign Sample	
	Assign to: Make New Sample	
	Pad: A01	
	Crop Sample: ON	
	Program: Drums	
	 Close Do It	

Make new sample creates a new sample in your project. The original sample will remain as it is.

Pad determines the pad to which the slice will be assigned. You can also press a pad to select it.

Crop Sample determines whether or not the sample will be cropped. When set to **ON**, the unused parts of the sample will be deleted when it is created and assigned. This feature is destructive, though the project will still contain your original sample. When set to **OFF**, the sample will not be cropped, enabling you to edit the sample further even if you are using only part of it at the moment.

Program determines the program to which the slice will be added.

F5/Do It assigns the sample and returns to the previous screen.

F4/Close returns to the previous screen without assigning the sample.



Processing Slices

To apply various editing processes to the sample, press F6/Process, and use the fields and buttons in the Process Slice window that appears. You can process the sample only if Slice is set to All.

Important: Program Mode is non-destructive: You can choose the slice/edit behavior without destroying your original sample, giving you more control over sample playback; you can save your sliced sample and but also reuse all of the slice data in another project. See the *Program Edit Mode* chapter to learn more about setting a pad to play the entire sample, a specific slice of a sample, or a specific region of the sample (independent of its slice markers).

L.	Process Slice	
	Function: Discard	
	LERT: Pressing 'Do It' will delete the ata beyond the START and END points	
l	Cancel Do It	للسسو

Function determines how the sample will be processed.

Note: Almost all processes will affect only the part of the sample between the start point and the end point. Only **Bit Reduce** and **Stereo -> Mono** will affect the **entire** sample regardless of its start point or end point.

Discard deletes the regions before the start point and after the end point.

Delete deletes the region between the start point and end point and closes the gap between them.

Silence replaces the region between the start point and end point with silence.

Extract deletes the regions before the start point and after the end point and saves it as a new sample in your current project.

Tip: This is useful if you recorded a drum loop and wanted to remove just a snare drum hit, a kick drum hit, etc. to use separately in the project.

Normalize increases a sample's level to the highest level possible without distortion. This is essentially a kind of digital gain optimization, so you do not have to worry about excessive level settings when working with samples with a wide range of amplitudes.

Reverse reverses the region between the start point and end point.

Fade In sets a fade-in between the start point and end point. Use the Type field to set the curve of the fade:

- Linear fades the audio in with a linear curve—a straight line between the start and end.
- Log fades the audio in with a logarithmic curve—quickly rising at the start and flattening out towards the end.
- **Exp** fades the audio in with an exponential curve—slowly rising in the beginning and growing steeper towards the end.

Fade Out sets a fade-out between the start point and end point. Use the Type field to set the curve of the fade:

- Linear fades the audio out with a linear curve—a straight line between the start and end.
- Log fades the audio out with a logarithmic curve-quickly rising at the start and flattening out towards the end.
- **Exp** fades the audio out with an exponential curve—slowly rising in the beginning and growing steeper towards the end.

Pitch Shift changes the pitch of the sample without changing its length. This lets you set the sample's pitch to your sequence without affecting the sample's tempo or duration. Use the **Pitch** field to determine the amount: **-12.00** to **12.00** semitones. **0** corresponds to no pitch shift. Keep in mind that the audio quality may decrease at more extreme settings.

Time Stretch lengthens or shortens the sample without changing its pitch. This is useful for matching the durations of two samples with different pitches.

- Number Of Beats determines the desired number of beats according to the new tempo.
- New determines the new tempo (Ratio will then automatically show the time stretch factor).
- **Ratio** is the time-stretch factor of the process (**New** will then automatically change based on this time stretch factor).

Gain Change raises or lowers the volume of the sample. Use the **Gain Amount** field to determine the amount: -18 to 18 dB. 0 corresponds to no gain change. This function is different than Normalize because it will allow volumes beyond clipping level. This may be a desired effect, but remember to watch your output level!

Copy saves a copy of the sample.

Bit Reduce lowers the bit resolution of a sample, effectively reducing its degree of faithful reproduction. Use the **Bit Depth** field to determine the bit depth of the resulting sample: **1–16** bits. The sound is similar to the Resampler effect, but Bit Reduce will permanently alter the sample.

Tip: Use this on drum loops to get a dirty, "old-school" sizzle but with a digital "edge."

Note: This process affects the entire sample regardless of its start point or end point.

Stereo -> Mono converts a stereo sample to a new mono sample and saves it as a new sample. Use the **Source** field to determine which channels are converted:

- Left converts the left channel only.
- **Right** converts the right channel only.
- Sum combines the left and right audio channels to a single mono channel.

Note: This process affects the entire sample regardless of its start point or end point.

F5/Do It applies the process to sample and returns to the previous screen.

F4/Cancel returns to the previous screen without applying any process.

Program Edit Mode

Program Edit Mode contains all parameters for editing your programs.

To enter Program Edit Mode, press Prog Edit.

🔄 Prosr	ram: Drums				
Poly:	# PolySemi:		0Fine:	0	
	Lev	vel:	71 Pan :	С	
Sim Play	1: Off 2:	0	ff]3:	0ff 4:	Off
Mute Tet	Tet 1: Off:2: Off:3:		ff3:	0ff 4:	Off
Master	Samples	Pan Vel	Fit Env	Lfo Mod	Effects

📃 Progra	m: Bass				
Pole:	PolySem	i:	ØFine:	0 Tra	ans: 0
Ka Select:	1 Kee	Trk: (On Level:	67 Par	n: C
Low Note: C-2Hish Note:			38 Ka Semi:	0Ka Fine:	
Ka Pla: Pola Mute Group: Off Lager:			Vel Sar	n⊨le: N.On	
Master 🗌	Samples	Pan Vel	Flt Env	Lfo Mod	Effects

Use the **cursors** to select each field, and then use the **data dial** or -/+ buttons to change the parameter. If the field is a number, you can use the **numeric keypad** to enter a number and then press **Enter** to confirm it.

The available parameters in this mode depend on the type of program you are editing.

For **drum programs**, this mode includes the parameters of four layers as well as all synthesis parameters and insert effect settings. See the **Drum Programs** section to learn more.

For **keygroup programs**, this mode contains slightly more parameters than drum programs. See the *Keygroup Programs* section to learn more.

For **clip programs**, this mode looks very different from that of other programs due to how clip launching works. See the *Clip Programs* section to learn more.

For plugin programs, skip to Plugin Programs to learn more.

For MIDI programs and CV programs, skip to MIDI Programs and CV Programs to learn more.

For more general information on the differences between the types of programs, please see **General Features** > **Programs**.

To select a program to edit, use the Program field at the top of the screen.

Drum Programs

🔄 🛛 Prosr	am <mark>:</mark> Drui	ms				
Poly:	Poly: PolySemi:			0Fine:	0	
		Level:	-	71 Pan:	C	
Sim Play	1: Off	2:	01	PF:3:	0ff 4:	Off
Mute Tst	1: Off	2:	01	ff3:	Off 4:	Off
Master	Sample	es 🛛 P	an Vel	Flt Env	Lfo Mod	Effects

When using drum programs, Program Edit Mode lets you edit the parameters for each pad.

To select a pad, press it. Its parameters will appear on the screen immediately.

These are the buttons under the screen for drum programs:

- F1 Master Press this button to view the Master tab, described here.
- F2 Samples Press this button to cycle the three Samples tabs, described here.
- F3 Pan Vel Press this button to view the Pan Vel (panning and velocity) tab, described here.
- F4 FIt Env Press this button to view the FIt Env (filter envelope) tab, described here.
- F5 Lfo Mod Press this button to view the Lfo Mod (LFO modulation) tab, described here.
- F6 Effects Press this button to view the Effects tab, described here.

 Edit Zones	 	Edit Zones	
Edit Mode: <mark>Current</mark>		Edit Mode: <mark>Multiple</mark>	
	Pads	: A01 A05 A09 A13 B01 B05 B09 B13	
Close		Close	

You can edit one pad, multiple pads, or all pads of a drum program simultaneously while in Program Edit Mode.

To select how many pads and which pad/pads you are editing, select any parameter in Program Edit Mode except for the bottom-most eight parameters on the Flt Env tab, and then press Window. In the Edit Zones screen that appears, set the Edit Mode field:

- **Current**: Only the currently selected pad can be edited.
- **Multiple**: All selected pads can be edited simultaneously.
- All: All pads can be edited simultaneously.

Tip: You can immediately select or deselect multiple pads while on any tab in Program Edit Mode (regardless of the current Edit Mode setting). To do this, press **Shift** and each desired pad. **Edit Mode** will automatically change to the corresponding setting.



Master

In the Master tab, you can configure playback settings and tuning for the program and pads.

Program: Drums								
Poly:	Poly	Semi:		ØFine:	0			
		Level	: 7	71 Pan :	C			
Sim Play 1	: Off	2:	Of	°f 3:	0ff 4:	Off		
Mute Tet 1	te Tst 1: Off 2: Off 3:		°f 3:	Off 4:	Off			
Master	Sample	es 🛛 F	Pan Vel	Fit Env	Lfo Mod	Effects		

Poly (Polyphony) is the playback mode of the pads in the program.

To set the playback mode of all pads in the program, use this field to select an option:

- **Mono**: Only one pad will sound at a time. If a pad is played while another (or the same one) is still playing its sample/samples, the new pad will immediately mute all other currently playing pads in that program.
- Poly: Several pads can be triggered at the same time (limited only by the total number of voices available).

Semi is the coarse tuning of the program: -36 to +36 semitones. 0 corresponds to no coarse-tuning adjustment.

To set the coarse tuning of the program, use this field.

Fine is the fine tuning of the program: -99 to +99 cents. 0 corresponds to no fine-tuning adjustment.

To set the fine tuning of the program, use this field.

Level is the overall volume level of the loaded sample/samples of the current pad.

To set the volume level of the pad, use this field.

Pan is the overall panning position of the loaded sample/samples of the current pad in the stereo field: **50L** (left) to **50R** (right). **C** indicates the center position.

To set the panning position of the pad, use this field. If you use the numeric keypad to change this number, use values from -50 to +50: -50 corresponds to 50L, 0 corresponds to C, and +50 corresponds to 50R.

Sim Play 1–4 (Simultaneous Play) can be set to one to four pads (in the same program) that will be triggered by pressing the current pad—the pads will play simultaneously.

Tips: This feature is useful for triggering a stack of sounds such as layered kick drums.

To assign pads to play simultaneously with the current pad, use these fields.

Mute Tgt 1–4 (Mute Target) can be set to one to four pads (in the same program) for the currently selected pad. When the currently selected pad is played, it will immediately silence its mute targets.

To assign pads to the mute target of the current pad, use these fields.

Tips:

This feature is useful for programming realistic hi-hats, especially if only the open or closed hat should be heard. This feature is similar to the **mute group** feature, available for both drum programs and keygroup programs.



Samples

Each pad can trigger up to four samples, which are assigned in four individual layers. Each layer has identical, independently assignable parameters.

Press F2/Samples to cycle through its three available tabs.

Important: The parameters in the **Samples** tabs work in conjunction with Chop Mode (in Sample Edit Mode). Here's how it works:

When working in Sample Edit Mode and using Chop Mode to divide a sample into slices for your pads, you can convert a slice using **Non-Destructive Slice** or **Pad Parameters**.

A **Non-Destructive Slice** will let its pad to refer to that slice when you press it; the original sample remains intact and each slice marker is like a "bookmark" for a pad. In Program Edit Mode, you'll see that the layer to which it's assigned has its **Slice** setting set to the corresponding **slice number** in the original sample. Playing that pad will cause it to refer to that slice marker like a "bookmark" instead of creating an entirely new sample of that slice. This means that you no longer have to clutter your project with a new sample for every slice (though you can still use this earlier method, if you prefer).

A slice converted using **Pad Parameters** is very similar to a non-destructive slice described above. The difference is that in Program Edit Mode, the layers they're assigned to have their **Slice** settings set to **Pad** (instead of the slice number), and the **start** and **end points** will correspond to the slice markers in the original sample.

The first Samples tab contains controls for the pitch, timing, and playback of the current layer.

📘 🛛 Prosr	am <mark>:</mark> Drums			LOOP	Lock: ON
Layen:	1 Smp1:	1980Ki	ck1		
Start:	0 End:	69	671 Loop:	0 S1i	ce: Pad
Tune: -3	: ØDir:		Fwd Loop:	Off	
Ware:	Off Stret	.ch:	100 BPM:	151.91 BPM	Sync: On
Master	Samples	Pan Vel	Flt Env	Lfo Mod	Effects

Loop Lock determines if the loop point of a sample layer is "linked to" or "unlinked from" the start point.

When set to **On**, the loop point is the same as the start point.

When set to **Off**, the loop point is independent from the start point and indicated by a separate loop marker. This is the same as the **Loop Lock** button in Sample Edit Mode.

To turn Loop Lock on or off, set this field to On or Off (respectively).

Layer is the layer you are editing within the current pad: 1-4.

To select a layer, use this field.

Smpl (Sample) is the name of the sample assigned to the current layer of the pad. Remember that the sample has to be loaded into the project's sample pool beforehand. To learn how to load samples into a project, please see **Browser**.

To assign a sample, use this field.



Start and End define where the sample will start and stop playing when the pad is triggered.

To change the start point or end point, do either of the following:

- Use the Start or End field (respectively).
- Use the **first** or **second** column of **Q-Link knobs** (respectively). The top-most Q-Link knobs (13 and 14) provide coarse adjustment. The bottom-most Q-Link knobs (1 and 2) provide fine adjustment.

Note: When **Loop Lock** is set to **ON**, the loop position (as determined by the **Loop** field, if enabled) is the same as the sample's start point. When set to **OFF**, the loop position is independent from the start point.

Note: The **0 Snap** feature in Sample Edit Mode is helpful when used in conjunction with these settings. **0 Snap** forces start points, end points, and loop points to occur only at the waveform's "zero-crossings," which can help prevent clicks and glitches when playing a sample. See *this description* to learn more.

Tip: A recorded sample may have some silence at the beginning or end, which makes it difficult to time it correctly in a musical context. Fix this by adjusting the start point. You can also adjust end point to remove any extra silence or unwanted audio at the end. In addition to making your workflow easier, having a "tight," well-edited sample can enhance your production or performance.

Loop is where the sample will loop when the pad is triggered. When the Loop feature is on, the region of the sample between the loop point and end point will repeat. This is useful when trying to find an ideal spot to begin the sample. The loop cannot be earlier than the start point.

To change the loop point, use this field, or use the **third** column of **Q-Link knobs**. The top-most Q-Link knob (15) provides coarse adjustment. The bottom-most Q-Link knobs (3) provides fine adjustment.

Slice is which slice of the sample is assigned to the pad. You must have already created slices in Chop Mode (in Sample Edit Mode) to use this. **0** corresponds to **All**.

Note: The **Link Slices** setting in Sample Edit Mode is helpful when used in conjunction with this setting. **Link Slices** determines how the start point and end point of a slice in a larger sample is set. See *this description* to learn more.

To select a slice to edit (after you have created slices in Chop Mode in Sample Edit Mode), use this field or turn **Q**-Link Knob 16 (MPC Renaissance) or the first **Q**-Link knob in the fourth column (MPC Studio) to select an option:

- All: The entire sample will play.
- **Pad**: The sample will play from the **Start** position to the **End** position, described *earlier*. This also lets you activate *Loop* (if the **Sample** field in the **Lfo Mod** tab is set to **NoteOn**).
- Slice 1, 2, 3, etc.: If you have sliced the sample in Chop Mode (in Sample Edit Mode), you can select which slice will play when you trigger the pad.

Tune is the coarse and fine tuning of the sample when played by the pad. The first number is coarse tuning (-36 to +36 semitones) and the second number is fine tuning (-99 to +99 cents). 0 corresponds to no tuning adjustment.

Note: These settings will affect the length of the sample (if **Warp** is set to **Off**). Also, these are the same as **Semi** and **Fine** on the second **Samples** tab.

To adjust the tuning, use these fields.

Dir (Direction) determines which direction the sample will play.

To set the playback direction, use this field to select an option:

- Forward (Fwd): The sample will play in the normal forward direction.
- **Reverse** (**Rev**): The sample will play in reverse.

Loop determines how the sample will be looped. When the Loop feature is on, the region of the sample between the loop point (determined by the **Loop** field in the second row) and end point will repeat. This is useful when trying to find an ideal spot to begin the sample. The loop cannot be earlier than the start point.

Important: For Loop to work, you must (1) set the **Sample** field (in the **Lfo Mod** tab) to **NoteOn** instead of OneSht and (2) set the **Slice** field (in the first **Samples** tab) to **Pad** instead of All or a slice number.

To set how the sample loops, use this field to select an option:

- Off: The sample will not loop.
- Forward (Fwd): You can hold down the pad to cause that sample to repeat from the loop point to the end of the sample. Release the pad to stop the repeating playback.
- Alternating (Alt): You can hold down the **pad** to cause that sample to play from the loop point to the end of the sample and then play in reverse until it reaches the loop point again. This will repeat as long as you are holding the pad down. Release the **pad** to stop the repeating playback.
- **Reverse** (**Rev**): You can hold down the **pad** to cause that sample to play in reverse, repeating from the end of the sample to the loop point. Release the **pad** to stop the repeating playback.

Warp determines whether or not stretching the time of the sample will change its pitch and vice versa.

When set to **On**, lengthening or shortening the sample (based on the BPM) will not change its pitch.

When set to **Off**, lengthening or shortening the sample will also change its pitch and vice versa. Use the **Stretch**, **BPM**, and **BPM Sync** settings (described below) in conjunction with this feature. See the note *below* to learn how to minimize CPU requirements while using Warp.

To set whether or not the sample is warped, set this field to On or Off (respectively).

Stretch is the "stretch factor," which affects how the sample is warped (if **Warp** is set to **On**). See the note *below* to learn how to minimize CPU requirements while using Warp.

To set the stretch factor, use this field.

BPM is the tempo used when a sample is warped (if **Warp** is set to **On**). See the note *below* to learn how to minimize CPU requirements while using Warp.

To set the tempo of the sample, use this field.

BPM Sync determines whether the tempo of the sample is linked to or independent of the tempo of the sequence.

When **BPM Sync** and **Warp** are both set to **On**, the sample's tempo will be "locked" to the tempo of the sequence.

When **BPM Sync** is set to **Off** but **Warp** is set to **On**, the sample will be independent of the tempo of your sequence use the **Stretch** field to lengthen or shorten a sample. See the note *below* to learn how to minimize CPU requirements while using Warp.

To enable or disable BPM Sync, set this field to On or Off (respectively).

Note: The Warp algorithms are very CPU-intensive and can result in audio drop-outs during playback if used too freely. Be mindful of how (and how often) you use the warp function. You can reduce the CPU resources required by doing any/all of the following:

Avoid using extreme Stretch values.

Minimize the amount of pitch adjustment (e.g., the **Tune** parameter) of warped audio.

Avoid warping very small track regions.

Warp as few tracks or track regions as possible (i.e., reduce the number of total number of voices of the polyphonic limit that use the Warp algorithm at a given time), especially instances where the warped regions start at the same time.

Avoid rapidly triggering samples that are warped.

If you have warped samples used in a drum program, consider using the **Flatten Pad** function to consolidate the affected pad's layers into one audio sample. After you flatten the pad, its sample/samples no longer need to be warped. To see the user guide in the MPC software and learn how to do this, click the **Help** menu, select **MPC Help**, and select **MPC User Manual**.

The second Samples tab contains controls for the pitch and volume level of each layer.

📔 🛛 Pros	nam: Drums			Loop	Lock: ON	
51: 198	ØKick1 <mark>Semi</mark>		-3Fine:	0 Lev	el: 127	
S2: 19	84Kick Semi		0 Fine:	4 Lev	el: 127	
53: Bass 01 Semi:			-3 Fine:	0[Level:		
S4 :	Semi		0 Fine:	0 Lev	el: 127	
Master	Samples	Pan Vel	Flt Env	Lfo Mod	Effects	

Loop Lock determines if the loop point of a sample layer is "linked to" or "unlinked from" the start point.

When set to **On**, the loop point is the same as the start point.

When set to **Off**, the loop point is independent from the start point and indicated by a separate loop marker. This is the same as the **Loop Lock** button in Sample Edit Mode.

To turn Loop Lock on or off, set this field to On or Off (respectively).

S1-4 (Sample 1-4) is the name of the sample assigned to the current layer (1-4) of the pad. Remember that the sample has to be loaded into the project's sample pool beforehand. To learn how to load samples into a project, please see *Browser*.

To assign a sample, use this field or turn the corresponding Q-Link knob (1, 5, 9, or 13 on MPC Renaissance or the first column of Q-Link knobs on MPC Studio).

Semi is the coarse tuning of the sample on each layer: -36 to +36 semitones. 0 corresponds to no coarse-tuning adjustment. This will affect the length of the sample (if **Warp** is set to **Off**).

To set the coarse tuning of the sample on each layer, use this field or turn the corresponding Q-Link knob (2, 6, 10, or 14 on MPC Renaissance or the second column of Q-Link knobs on MPC Studio).

Fine is the fine tuning of the sample on each layer: **-99** to **+99** cents. **0** corresponds to no fine-tuning adjustment. This will affect the length of the sample (if **Warp** is set to **Off**).

To set the fine tuning of the sample on each layer, use this field or turn the corresponding Q-Link knob (3, 7, 11, or 15 on MPC Renaissance or the third column of Q-Link knobs on MPC Studio).

Level is the volume of the sample on each layer, enabling you to control the "balance" of the samples assigned to the pad.

To set the volume level of the sample on each layer, use this field or turn the corresponding Q-Link knob (4, 8, 12, or 16 on MPC Renaissance or the fourth column of Q-Link knobs on MPC Studio).

The third Samples tab contains a control for the offset of the sample on each layer.

📘 Program: Drums		LOOP	Lock: ON
S1: 1980Kick1 <mark>Offset:</mark>	0		
S2: 1984KickOffset:	0		
53: Bass 01 Offset:	0		
54: Offset:	0		
Master Samples Pan Ve	l 📘 Fit Env	Lfo Mod	Effects

Loop Lock determines if the loop point of a sample layer is "linked to" or "unlinked from" the start point.

When set to **On**, the loop point is the same as the start point.

When set to **Off**, the loop point is independent from the start point and indicated by a separate loop marker. This is the same as the **Loop Lock** button in Sample Edit Mode.

To turn Loop Lock on or off, set this field to On or Off (respectively).

S1-4 (Sample 1-4) is the name of the sample assigned to the current layer (1-4) of the pad. Remember that the sample has to be loaded into the project's sample pool beforehand. To learn how to load samples into a project, please see *Browser*.

To assign a sample, use this field or turn the corresponding Q-Link knob (1, 5, 9, or 13 on MPC Renaissance or the first column of Q-Link knobs on MPC Studio).

Offset is the time offset of the sample's playback on each layer. When this setting is a positive value, playing the pad will immediately trigger the sample on that layer but at a later point in the sample (specified by this setting). When this setting is a negative value, the sample playback on that layer will be delayed by the amount specified by this setting.

To set the offset of the sample on each layer, use this field or turn the corresponding Q-Link knob (2, 6, 10, or 14 on MPC Renaissance or the second column of Q-Link knobs on MPC Studio).

Panning & Velocity

The Pan Vel tab contains settings that determine the stereo placement and velocity ranges of each layer of the pad.

S1 Pan: CLow: S2 Pan: CLow: S3 Pan: CLow:	0Hish: 68Hish:	67	
	COULTER.		
CZ David Cillaur	polurau.	127	
Do Paris C ₁ Lows	0Hish:	127	
S4 Pan: CiLow:	0Hish:	127	
Master Samples Pan	Vel 🛛 Fit Env	/ Lfo Mod	Effects

Pan is the panning position of the sample on each layer in the stereo field: 50L (left) to 50R (right). C indicates the center position.

To set the panning position of the sample on each layer, use this field or turn the corresponding Q-Link knob (1, 5, 9, or 13 on MPC Renaissance or the first column of Q-Link knobs on MPC Studio). If you use the numeric keypad to change this number, use values from -50 to +50: -50 corresponds to 50L, 0 corresponds to C, and +50 corresponds to 50R.

Low and High determine the lowest and highest velocities (respectively) that will trigger the sample on each layer. A range from 0 to 127 lets the layer respond to the entire velocity range which is input from the respective pad, while, for example, a range from 100 to 127 lets the layer respond only to higher velocity levels. By assigning several samples of one instrument, you can create a realistic-sounding "multi-sample" by adjusting the velocity ranges of each layer accordingly.

For example, you may have three samples of a drum hit with low force, medium force, and high force. You can set each sample to a layer and set the velocity ranges so only low velocities trigger the low-force sample, only mid-range velocities trigger the medium-force sample, and only high velocities trigger the high-force sample.

To set the velocity range of the sample on each layer, use these fields or turn the corresponding Q-Link knob: for low velocities, turn Q-Link Knob 2, 6, 10, or 14 (MPC Renaissance) or the second column of Q-Link knobs (MPC Studio); for high velocities Q-Link Knob 3, 7, 11, or 15 (MPC Renaissance) or the third column of Q-Link knobs (MPC Studio).

Filter Envelope

🖃 Pros	ram: <mark>Drums</mark>						
Туре:	Low 2 Cuto	ff: 1	27 Reso		0Env	:	6
V>Start:	0 V>At	tack:	0 V>En	/ :	Ø V>F	ilter:	0
Flt Atk:	0F1t	Dec:	6 F1t 9	Sust:	127 F1t	Rel:	e
Amp Atk:	0 Amp	Dec:	6 AMP	5ust:	127 Amp	Rel:	e
Master	Samples	Pan Ve	I FIt	Env	Lfo Mod	Eff	ects

The **FIt Env** tab contains settings for the filter and amp envelopes that affect the pad.

Type determines the filter that is applied to the selected pad. See *Appendix* > *Glossary* > *Filter* for an explanation of the available filter types.

To set the filter type, use this field or turn Q-Link Knob 13 (MPC Renaissance) or the first Q-Link knob in the first row (MPC Studio).

Cutoff is the cutoff frequency for low-pass and high-pass filter types or the center frequency for band-pass and band-stop filter types. See *Appendix* > *Glossary* > *Filter* for an explanation of the available filter types.

To set the filter cutoff frequency, use this field or turn Q-Link Knob 14 (MPC Renaissance) or the second Q-Link knob in the first row (MPC Studio).

Reso (Resonance) is the emphasis of the frequencies around the cutoff point.

Tip: Use values lower than **80** to give more brilliance to the sound. At values higher than **80**, the sound will result in a strong audible boost around the cutoff frequency.

To set the filter resonance, use this field or turn Q-Link Knob 15 (MPC Renaissance) or the third Q-Link knob in the first row (MPC Studio).

Env (Envelope) determines the amount of influence the filter envelope has on the cutoff frequency. Higher settings will increase the modulation of the filter by the envelope; lower settings will result in only subtle changes of the filter **Cutoff** over time.

Tip: To give a sound a more distinctive attack, increase the **Env** setting and set low **Atk** and **Dec** values as well as a medium-low **Sust** value of the filter envelope (**Fit**). This will start a sound with the filter opened and close it shortly afterward, giving it a bright start followed by a darker sustain. String sounds, on the other hand, can sound much more "alive" with low **Env** settings and a high **Atk** value, resulting in a slight fade-in of the higher frequencies.

To set the filter envelope amount, use this field or turn Q-Link Knob 16 (MPC Renaissance) or the fourth Q-Link knob in the first row (MPC Studio).

V>Start (Velocity → Start) determines how much velocity is needed (for a triggered pad) to modulate the sample start point.
 To set the "velocity to start," use this field or turn Q-Link Knob 9 (MPC Renaissance) or the first Q-Link knob in the second row (MPC Studio).

V>Attack (Velocity → Attack) determines how much velocity is needed (for a triggered pad) to modulate the Attack (**Atk**) phase for the Amp envelope.

To set the "velocity to filter attack," use this field or turn Q-Link Knob 10 (MPC Renaissance) or the second Q-Link knob in the second row (MPC Studio).

V>Env (Velocity → Envelope) determines to what degree velocity information affects the amount of the filter envelope's effect on the cutoff frequency.

To set the "velocity to envelope amount," use this field or turn **Q-Link Knob 11** (MPC Renaissance) or the third **Q-Link knob** in the second row (MPC Studio).

V>Filter (Velocity + Filter) determines to what degree the velocity of a pad modulates the cutoff frequency directly.

To set the "velocity to filter cutoff," use this field or turn Q-Link Knob 12 (MPC Renaissance) or the fourth Q-Link knob in the second row (MPC Studio).

The third row of parameters determine how the filter envelope affects the filter frequency over a period of time. There are three possible sets of parameters, depending on the type of envelope:

- AD (attack-decay) envelope: Flt Atk (filter attack), Flt Dec (filter decay), and Dec Type (decay type)
- AHDS (attack-hold-decay-sustain) envelope: Flt Atk (filter attack), Flt Hold (filter hold), Flt Dec (filter decay), and Flt Sust (filter sustain)
- ADSR (attack-decay-sustain-release) envelope: Fit Atk (filter attack), Fit Dec (filter decay), Fit Sust (filter sustain), and Fit Rel (filter release)

See the later *Anatomy of an Envelope* section to learn about these envelope parameters.

To adjust the filter envelope parameters, use these fields or turn the corresponding Q-Link knob (5–8 on MPC Renaissance or the Q-Link knobs in the third row on MPC Studio).

To adjust the overall influence of the envelope on the filter frequency, use the Env field or turn Q-Link Knob 16 (MPC Renaissance) or the first Q-Link knob in the fourth column (MPC Studio).

To set the envelope type, press F5/Lfo Mod and set Sample to One Shot (OneSht), if you want to select an AD or AHDS envelope, or Note On (NoteOn), if you want to use ADSR envelopes only. To select an AD or AHDS envelope, press F4/FIt Env, select one of the eight bottom-most parameters, and then press Window. Use the Filter Envelope AD Mode field in the screen that appears to select an AD envelope (On) or AHDS (Off), and then press F4/Close.

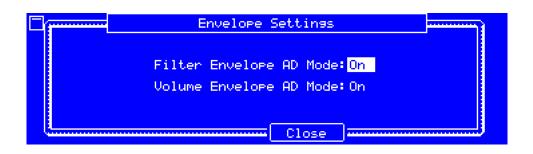
The fourth row of parameters determine how the amp envelope affects the volume level over a period of time. There are three possible sets of parameters, depending on the type of envelope:

- AD (attack-decay) envelope: Amp Atk (amp attack), Amp Dec (amp decay), and Dec Type (decay type)
- AHDS (attack-hold-decay-sustain) envelope: Amp Atk (amp attack), Amp Hold (amp hold), Amp Dec (amp decay), and Amp Sust (amp sustain)
- ADSR (attack-decay-sustain-release) envelope: Amp Atk (amp attack), Amp Dec (amp decay), Amp Sust (amp sustain), and Amp Rel (amp release)

See the later *Anatomy of an Envelope* section to learn about these envelope parameters.

To adjust the amp envelope parameters, use these fields or turn the corresponding Q-Link knob (1–4 on MPC Renaissance or the Q-Link knobs in the fourth row on MPC Studio).

To set the envelope type, press F5/Lfo Mod and set Sample to One Shot (OneSht), if you want to select an AD or AHDS envelope, or Note On (NoteOn), if you want to use ADSR envelopes only. To select an AD or AHDS envelope, press F4/Fit Env, select one of the eight bottom-most parameters, and then press Window. Use the Volume Envelope AD Mode field in the screen that appears to select an AD envelope (On) or AHDS (Off), and then press F4/Close.



LFO Modulation

The Lfo Mod tab contains settings that determine sample playback and low-frequency oscillator of the pad.

🖃 🛛 Progr	am: Drums				
Mute Gre:	Off Layer	•: Vel	Sample:	NoteOn Pc	le: Mono
V>Pitch:	0 V>Atk	: 6	V>Ame:	127 V)	Pan: 0
Wave:	Sine Rate:	64	Senc:	None	
L>Pitch:	0L>Fil	ter: 0	L>Ame:	0.L)	Pan: Ø
Master	Samples	Pan Vel	Fit En	Lfo Mo	od Effects

Mute Group determines if the pad is assigned to a mute group: **1–32** or **Off** (no mute group). When pads assigned to the same mute group receive MIDI notes, the last pad played will silence all other pads in that mute group. A mute group affects pads within that program only; mute groups do not affect pads in other programs.

Tip: This feature is useful for programming realistic hi-hats, especially if only the open or closed hat should be heard.

To set the mute group, use this field or turn Q-Link Knob 13 (MPC Renaissance) or the first Q-Link knob in the first row (MPC Studio).

Layer determines how multiple samples assigned to the pad are played:

To set the layer playback option, use this field or turn Q-Link Knob 14 (MPC Renaissance) or the second Q-Link knob in the first row (MPC Studio) to select an option:

- **Cycle** (**Cyc**): Each time the pad is played, it will play the next layer's sample. In other words, the samples will cycle through the layers as follows: 1, 2, 3, 4, 1, 2, 3, 4... etc.
- Velocity (Vel): The pad will switch between layers depending on how hard you press a pad.
- Random (Ran): Each time the pad is played, it will play one of its layer's samples at random.

Sample determines how much of the samples assigned to the pad are played.

To set the playback amount of the samples on the pad, set this field to OneSht or NoteOn, or turn Q-Link Knob 15 (MPC Renaissance) or the third Q-Link knob in the first row (MPC Studio), to select an option.

- **One Shot** (**OneSht**): The samples will play from start to end when the pad is pressed. Use this when you want to play short sounds.
- Note On (NoteOn): The samples will play only as long as the pad is held down. This is better for longer samples so you can control a sound's duration by pressing and holding its corresponding pad.

Poly (Polyphony) determines how the pad's sound behaves when multiple hits are registered.

To set the polyphony of the pad, set this field to Mono or Poly, or turn Q-Link Knob 16 (MPC Renaissance) or the fourth Q-Link knob in the first row (MPC Studio), to select an option:

- **Mono**: Only one pad will sound at a time. If a pad is played while another (or the same one) is still playing its sample/samples, the new pad will immediately mute all other currently playing pads in that program.
- **Poly**: Several pads can be triggered at the same time (limited only by the total number of voices available). You can also select a specific number of pads (2–32) so that you can trigger up to this many pads at the same time (unless they exceed the total number of voices available).

V>Pitch (Velocity→Pitch), V>Atk (Velocity→Attack), V>Amp (Velocity→Amp), and V>Pan (Velocity→Panning) determine how much the velocity affects the pitch of the sound (Pitch), the attack of the filter envelope (Atk), the volume level of the filter envelope (Amp) and or the panning of the sound (Pan). When you press a pad softly, only minimal modulation is applied. When you press it harder, the modulation amount also gets stronger depending on the setting of the corresponding knob.

To adjust the velocity sensitivity of the pad, use these fields or turn the corresponding Q-Link knob (9–12 on MPC Renaissance or the Q-Link knobs in the second row (MPC Studio).



A low-frequency oscillator (LFO) generates a periodic waveform with an adjustable frequency and shape which can be used for modulation purposes. The seven settings in the lower half of the screen affect the LFO applied to the pad.

Wave is the type of waveform the LFO uses.

To select the waveform of the LFO, use this field or turn Q-Link Knob 5 (MPC Renaissance) or the first Q-Link knob in the third row (MPC Studio) to select an option:

- Sine (best suited for smooth modulations)
- **Triangle** (best suited for smooth modulations)
- S&H (samples a random value and holds it until the next value is generated)
- Saw (can generate interesting filter or volume changes)
- Saw Down (can generate interesting filter or volume changes)
- Square (interesting results with hard-panning modulations)
- Noise (generates random values and glides)

Rate is the LFO frequency when **Sync** is on. At lower values, it might take some time for the LFO to complete a cycle, while higher values will come closer to audible range.

To set the frequency of the LFO, use this field or turn Q-Link Knob 6 (MPC Renaissance) or the second Q-Link knob in the third row (MPC Studio).

Sync determines if or how the LFO's rate is synchronized with the tempo. You can select one of several time divisions (a. indicates a dotted note; a **T** indicates a triplet-based time division). When **None** is selected, **Sync** is off.

To set the synchronization of the LFO, use this field or turn Q-Link Knob 7 (MPC Renaissance) or the third Q-Link knob in the third row (MPC Studio).

L>Pitch (LFO→Pitch), L>Filter (LFO→Filter), L>Amp (LFO→Amp), and L>Pan (LFO→Panning) determine how much the LFO affects the pitch of the sound (Pitch), the cutoff frequency of the filter (Filter), the volume level of the sound (Amp), and the panning of the sound (Pan). When you press a pad softly, only minimal modulation is applied. When you press it harder, the modulation amount also gets stronger depending on the setting of the corresponding knob.

To adjust the LFO destinations of the pad, use these fields or turn the corresponding Q-Link knob (1–4 on MPC Renaissance or the Q-Link knobs in the fourth row (MPC Studio).



Effects

Effects shows the insert effects and send effect levels for the pad. You can select up to four insert effects for each pad. Additionally, each pad can be sent to up to four return channels, each of which can have up to four insert effects of their own. Their audio will be routed through the insert effects on those returns, and the processed audio will be sent to a master output.

Please see General Features > Effects to learn more about using insert and send effects.

🗌 Prosr	am: Drums				Ins	erts: ON
Inse	ert 1: Rev	verb Medium	1		Sen	d 1: 23
Inse	ert 2: Dis	stortion Ou	erdrive		Sen	d 2: 23
Inse	ert 3:				Sen	d 3: 18
Inse	ert 4:				Sen	d 4: 0
Master	Samples	Pan Vel	Fit Env	Lfo	Mod	Effects

Inserts determines whether insert effects are activated (ON) or deactivated (OFF) for the pad.

To activate or deactivate all four insert effects, set this field to ON or OFF (respectively).

Insert 1–4 are the four available slots for insert effects on that pad.

To load an effect, select an Insert field, and then use the data dial or -/+ buttons. In the Select Effect screen that appears, select an effect. Press F4/Select to load the selected effect or F3/Back to return to the previous screen.

To change the settings of a loaded effect, select an **Insert** field with an effect, and press **Window**. In the screen that appears, you can select and change each parameter (you can use the **numeric keypad** on some of them). Press **F4/Close** to return to the previous screen.

To activate or deactivate an effect, select its Insert field, and press Window. In the screen that appears, press F6/On/Off to activate or deactivate the effect. Press F4/Close to return to the previous screen.

To activate or deactivate all four insert effects, set the Inserts field to ON or OFF (respectively).

Send 1–4 are the audio signal levels that the pad sends to the four return channels, each of which can have up to four insert effects—these are send effects. The send effects will then send the audio to the assigned master output at the designated return levels.

To adjust the send levels, turn their corresponding Q-Link knobs (4, 8, 12, or 16 on MPC Renaissance or the Q-Link knobs in the fourth column on MPC Studio).

Important: To edit the send effects, use the Channel Mixer. See Channel Mixer > Returns to learn more how to do this.

Keygroup Programs

Poly: PolySemi: ØFine: 3Trans: Kø Select: 1Key Trk: On Level: 67Pan: Low Note: C-2High Note: G8Kø Semi: ØKø Fine: - Kø Ply: PolyMute Group: Off Layer: Vel Sample: N.C	🔄 Prosn	am: Bass				
Low Note: C-2Hish Note: G8Ks Semi: 0Ks Fine: -	Poly:	PolySem	i:	0Fine:	3 Tr	ans: 0
	Ka Select:	1 Kee	Trk:	On Level:	67 Pa	n: C
Ka Pla: Pola Mute Group: OffLager: Vel Sample: N.C	Low Note:	C-2Hie	h Note:	68Ka Semi:	0 Ka	Fine: -1
	Ka Pla∶	Poly Mut	e Group: O	ff:Layer:	Vel Sa	m⊨le: N.On
Master Samples Pan Vel Flt Env Lfo Mod Effects	Master		Pan Vel	Fit Env	Lfo Mod	Effects

When using keygroup programs, Program Edit Mode lets you edit the parameters for each keygroup.

To select a keygroup to edit, press F1/Master and use the Kg Select field or turn Q-Link Knob 9 (MPC Renaissance) or the first Q-Link knob in the second row (MPC Studio). You can select All to edit all keygroups simultaneously. The current settings will appear on the screen immediately.

These are the buttons under the screen for keygroup programs:

- F1 Master Press this button to view the Master tab, described here.
- F2 Samples Press this button to cycle the three Samples tabs, described here.
- F3 Pan Vel Press this button to view the Pan Vel (panning and velocity) tab, described here.
- F4 FIt Env Press this button to view the FIt Env (filter envelope) tab, described here.
- F5 Lfo Mod Press this button to view the Lfo Mod (LFO modulation) tab, described here.
- F6 Effects Press this button to view the Effects tab, described here.

	Set Number O	P Keyahour	≥s	
	Num Keyaroups:			
C		Close	Do It	

You can create up to **128** keygroups within a keygroup program. This is useful when working with multi-samples. For example, if you want to create a realistic piano, you can use different keygroups (e.g., 88 for a grand piano) with every keygroup containing its own sampled note (with up to four possible velocity layers).

To set the number of keygroups in the program, select any parameter in Program Edit Mode except for the bottom-most eight parameters on the Flt Env tab, and then press Window. In the Set Number of Keygroups screen that appears, set the Num Keygroups field to the desired number of keygroups (1–128).

To select a keygroup to edit, press F1/Master and use the Kg Select field or turn Q-Link Knob 9 (MPC Renaissance) or the first Q-Link knob in the second row (MPC Studio). You can select All to edit all keygroups simultaneously. The current settings will appear on the screen immediately.

Master

In the **Master** tab, you can set the playback mode and tuning for the overall program.

Tip: The **Samples** and **Pan Vel** tabs have some parameters similar to those in this section (**Level**, **Pan**, **Semi**, **Fine**, etc.). Remember that there are parameters that control the settings for the entire program, while other parameters control the settings for the current keygroup, and other parameters control the settings for each sample layer (up to 4).

🔄 🛛 Prosr	am: <mark>Bass</mark>				
Pole:	PolySem	i:	0Fine:	3 Tra	ans: 0
Ka Select:	1 Kee	Trk:	On Level:	67 Par	n: C
Low Note:	C-2His	h Note:	68 Ka Semi:	0 Ka	Fine: -1
Ka Pla:	Poly Mut	e Group: O	ff Layer:	Vel Sar	∩ple: N.On
Master		Pan Vel	Fit Env	Lfo Mod	Effects

Poly (Polyphony) is the playback mode of the program's keygroups.

To set the playback mode of all keygroups in the program, use this field or turn Q-Link Knob 13 (MPC Renaissance) or the first Q-Link knob in the first row (MPC Studio) to select an option:

- **Mono**: Only one keygroup will sound at a time. If a keygroup is played while another (or the same one) is still playing its sample/samples, the new keygroup will immediately mute all other currently playing keygroups in that program.
- **Poly**: Several keygroups can be triggered at the same time (limited only by the total number of voices available).

Semi is the coarse tuning of the program: -36 to +36 semitones. 0 corresponds to no coarse-tuning adjustment.

To set the coarse tuning of the program, use this field or turn Q-Link Knob 14 (MPC Renaissance) or the second Q-Link knob in the first row (MPC Studio).

Fine is the fine tuning of the program: -99 to +99 cents. 0 corresponds to no fine-tuning adjustment.

To set the fine tuning of the program, use this field or turn Q-Link Knob 15 (MPC Renaissance) or the third Q-Link knob in the third column (MPC Studio).

Trans shifts the pitch of the MIDI notes sent to the program: -36 to +36 semitones. 0 corresponds to no transposition.

To set the transposition of the program, use this field or turn Q-Link Knob 16 (MPC Renaissance) or the fourth Q-Link knob in the first row (MPC Studio).

Kg Select (Keygroup Select) is the keygroup you are currently editing. This parameter works in conjunction with the **Num Keygroups** setting in (the **Set Number of Keygroups** window), which lets you create up to **128** keygroups within one keygroup program. A default keygroup program contains only one single keygroup. When set to **All**, you are editing all keygroups in the program simultaneously.

To select a keygroup to edit, press F1/Master and use the Kg Select field or turn Q-Link Knob 9 (MPC Renaissance) or the first Q-Link knob in the second row (MPC Studio). You can select All to edit all keygroups simultaneously. The current settings will appear on the screen immediately.

To set the number of keygroups in the program, select any parameter in Program Edit Mode except for the bottom-most eight parameters on the Flt Env tab, and then press Window. In the Set Number of Keygroups screen that appears, set the Num Keygroups field to the desired number of keygroups (1–128).

Key Trk (Key Track) allows you to switch automatic transposition on or off. When set to **On**, the sample/samples in the current keygroup will play using their assigned transposition. When set to **Off**, the sample/samples will always play at the original pitch, no matter which note is triggered by pads or a connected MIDI keyboard.

To enable or disable Key Track, set this field to On or Off (respectively) or turn Q-Link Knob 10 (MPC Renaissance) or the second Q-Link knob in the second row (MPC Studio).

Level is the overall volume level of the loaded sample/samples of the current keygroup.

To set the volume level of the keygroup, use this field or turn Q-Link Knob 11 (MPC Renaissance) or the third Q-Link knob in the second row (MPC Studio).

Pan is the overall panning position of the loaded sample/samples of the current keygroup in the stereo field: **50L** (left) to **50R** (right). **C** indicates the center position.

To set the panning position of the keygroup, use this field or turn Q-Link Knob 12 (MPC Renaissance) or the fourth Q-Link knob in the second row (MPC Studio). If you use the numeric keypad to change this number, use values from -50 to +50: -50 corresponds to 50L, 0 corresponds to C, and +50 corresponds to 50R.

Low Note and High Note determine the note range of the current keygroup. This lets you restrict the key range used for a sample's playback. Only notes with a key number higher or equal (Low Key) or lower and equal (High Key) to the selected value will trigger a sound.

Tip: Set Low Note to A0 and High Note to C8 to emulate the range of a standard 88-key piano.

To set the note range of the keygroup, use these fields or turn **Q-Link Knobs 5** and **6** (MPC Renaissance) or the **first** and **second Q-Link knobs** in the **third row** (MPC Studio).

Kg Semi is the coarse tuning of the keygroup: -36 to +36 semitones. 0 corresponds to no coarse-tuning adjustment. To set the coarse tuning of the keygroup, use this field or turn Q-Link Knob 7 (MPC Renaissance) or the third Q-Link knob in the third row (MPC Studio)

Kg Fine is the fine tuning of the program: -99 to +99 cents. 0 corresponds to no fine-tuning adjustment.

To set the fine tuning of the keygroup, use this field or turn Q-Link Knob 8 (MPC Renaissance) or the fourth Q-Link knob in the third row (MPC Studio).

$\ensuremath{\textbf{Kg}}\xspace$ Ply (keygroup polyphony) field to determine how the keygroup will play.

To set the playback mode of the keygroup, use this field or turn Q-Link Knob 1 (MPC Renaissance) or the first Q-Link knob in the fourth row (MPC Studio) to select an option:

- **Mono**: Only one pad will sound at a time. If a pad is played while another (or the same one) is still playing its sample/samples, the new pad will immediately mute all other currently playing pads in that program.
- **Poly**: Several pads can be triggered at the same time, limited only by the total number of voices available. You can also select a specific number of pads (2–32) so that you can play up to this many pads at the same time (unless they exceed the total number of voices available).

Mute Group determines if the keygroup is assigned to a mute group: **1–32** or **Off** (no mute group). When keygroups assigned to the same mute group receive MIDI notes, the last keygroup played will silence all other keygroups in that mute group. A mute group affects keygroup within that program only; mute groups do not affect keygroups in other programs.

To set the mute group, use this field or turn Q-Link Knob 2 (MPC Renaissance) or the second Q-Link knob in the fourth row (MPC Studio).

Layer determines how multiple samples assigned to the keygroup are played:

To set the layer playback option, use this field or turn Q-Link Knob 3 (MPC Renaissance) or the third Q-Link knob in the fourth row (MPC Studio) to select an option:

- **Cycle** (**Cyc**): Each time the keygroup is played, it will play the next layer's sample. In other words, the samples will cycle through the layers as follows: 1, 2, 3, 4, 1, 2, 3, 4... etc.
- Velocity (Vel): The keygroup will switch between layers depending on how hard you press a pad.
- Random (Ran): Each time the keygroup is played, it will play one of its layer's samples at random.

Sample determines how much of the samples assigned to the keygroup are played.

To set the playback amount of the samples, use this field or turn Q-Link Knob 4 (MPC Renaissance) or the fourth Q-Link knob in the fourth row (MPC Studio) to select an option:

- **One Shot** (**OneSht**): The samples will play from start to end when a pad in the keygroup is pressed. Use this when you want to play short sounds.
- Note On (NoteOn): The samples will play only as long as a pad in the keygroup is held down. This is better for longer samples so you can control a sound's duration by pressing and holding its corresponding pad.



Samples

Each keygroup can trigger up to four samples, which are assigned in four individual layers. Each layer has identical, independently assignable parameters.

Press F2/Samples to cycle through its three available tabs.

Important: The parameters in the **Samples** tabs work in conjunction with Chop Mode (in Sample Edit Mode). Here's how it works:

When working in Sample Edit Mode and using Chop Mode to divide a sample into slices for your pads, you can convert a slice using **Non-Destructive Slice** or **Pad Parameters**.

A **Non-Destructive Slice** will let its keygroup to refer to that slice when you press a pad in that keygroup; the original sample remains intact and each slice marker is like a "bookmark" for a keygroup. In Program Edit Mode, you'll see that the layer to which it's assigned has its **Slice** setting set to the corresponding **slice number** in the original sample. Playing that keygroup will cause it to refer to that slice marker like a "bookmark" instead of creating an entirely new sample of that slice. This means that you no longer have to clutter your project with a new sample for every slice (though you can still use this earlier method, if you prefer).

A slice converted using **Pad Parameters** is very similar to a non-destructive slice described above. The difference is that in Program Edit Mode, the pads/layers they're assigned to have their **Slice** setting set to **Pad** (instead of the slice number), and the **start** and **end points** will correspond to the slice markers in the original sample.

The first Samples tab contains controls for its pitch, timing, and playback of the current layer.

📄 🛛 Prosr	ram: Bass			LOOP	Lock: ON
Layer:	1 Smpl:	Bass	s 01		
Start:	0 End:	10	3484 Loop:	38550 Sli	ce: Pad
Tune: 0	: ØDir:		Fwd Loop:	Off	
Ware:	Off Stre	ich:	100 BPM:	105.33 BPM	Sync: On
Master	Samples	Pan Vel	Fit Env	Lfo Mod	Effects

Loop Lock determines if the loop point of a sample layer is "linked to" or "unlinked from" the start point. When set to **On**, the loop point is the same as the start point. When set to **Off**, the loop point is independent from the start point and indicated by a separate loop marker. This is the same as the **Loop Lock** button in Sample Edit Mode.

To turn Loop Lock on or off, set this field to On or Off (respectively).

Layer is the layer you are editing within the current keygroup: 1–4.

To select a layer, use this field.

Smpl (Sample) is the name of the sample assigned to the current layer of the keygroup. Remember that the sample has to be loaded into the project's sample pool beforehand. To learn how to load samples into a project, please see *Browser*.

To assign a sample, use this field.



Start and End define where the sample will start and stop playing when a pad in the keygroup is triggered.

To change the start point or end point, do either of the following:

- Use the Start or End field (respectively).
- Use the **first** or **second** column of **Q-Link knobs** (respectively). The top-most **Q-Link knobs** (**13** and **14**) provide coarse adjustment. The bottom-most **Q-Link knobs** (**1** and **2**) provide fine adjustment.

Note: When **Loop Lock** is set to **ON**, the loop position (as determined by the **Loop** field, if enabled) is the same as the sample's start point. When set to **OFF**, the loop position is independent from the start point.

Tip: A recorded sample may have some silence at the beginning or end, which makes it difficult to time it correctly in a musical context. Fix this by adjusting the start point. You can also adjust end point to remove any extra silence or unwanted audio at the end. In addition to making your workflow easier, having a "tight," well-edited sample can enhance your production or performance.

Loop is where the sample will loop when a pad in the keygroup is triggered. When the Loop feature is on, the region of the sample between the loop point and end point will repeat. This is useful when trying to find an ideal spot to begin the sample. The loop cannot be earlier than the start point.

To change the loop point, use this field, or use the third column of Q-Link knobs. The top-most Q-Link knob (15) provides coarse adjustment. The bottom-most Q-Link knobs (3) provides fine adjustment.

Slice is which slice of the sample is assigned to the keygroup. You must have already created slices in Chop Mode (in Sample Edit Mode) to use this. **0** corresponds to **All**.

To select a slice to edit (after you have created slices in Chop Mode in Sample Edit Mode), use this field or turn **Q**-Link Knob 16 (MPC Renaissance) or the fourth **Q**-Link knob in the fourth column (MPC Studio) to select an option:

- All: The entire sample will play.
- **Pad**: The sample will play from the **Start** position to the **End** position, described *earlier*. This also lets you activate *Loop* (if the **Sample** field in the **Lfo Mod** tab is set to **NoteOn**).
- Slice 1, 2, 3, etc.: If you have sliced the sample in Chop Mode (in Sample Edit Mode), you can select which slice will play when you trigger a pad in the keygroup.

Tune is the coarse and fine tuning of the sample when played by a pad in the keygroup. The first number is coarse tuning (-36 to +36 semitones) and the second number is fine tuning (-99 to +99 cents). 0 corresponds to no tuning adjustment.

Note: These settings will affect the length of the sample (if **Warp** is set to **Off**). Also, these are the same as **Semi** and **Fine** on the second **Samples** tab.

To adjust the tuning, use these fields.

Dir (Direction) determines which direction the sample will play.

To set the playback direction, use this field to select an option:

- **Forward** (**Fwd**): The sample will play in the normal forward direction.
- **Reverse** (**Rev**): The sample will play in reverse.

Loop determines how the sample will be looped. When the Loop feature is on, the region of the sample between the loop point (determined by the **Loop** field in the second row) and end point will repeat. This is useful when trying to find an ideal spot to begin the sample. The loop cannot be earlier than the start point.

Important: For Loop to work, you must (1) set the **Sample** field (in the **Lfo Mod** tab) to **NoteOn** instead of OneSht and (2) set the **Slice** field (in the first **Samples** tab) to **Pad** instead of All or a slice number.

To set how the sample loops, use this field to select an option:

- Off: The sample will not loop.
- Forward (Fwd): You can hold down a pad in the keygroup to cause that sample to repeat from the loop point to the end of the sample. Release the pad to stop the repeating playback.
- Alternating (Alt): You can hold down a **pad** in the keygroup to cause that sample to play from the loop point to the end of the sample and then play in reverse until it reaches the loop point again. This will repeat as long as you are holding the pad down. Release the **pad** to stop the repeating playback.
- **Reverse** (**Rev**): You can hold down a **pad** in the keygroup to cause that sample to play in reverse, repeating from the end of the sample to the loop point. Release the **pad** to stop the repeating playback.

Warp determines whether or not stretching the time of the sample will change its pitch and vice versa.

When set to **On**, lengthening or shortening the sample (based on the BPM) will not change its pitch.

When set to **Off**, lengthening or shortening the sample will also change its pitch and vice versa. Use the **Stretch**, **BPM**, and **BPM Sync** settings (described below) in conjunction with this feature. See the note *below* to learn how to minimize CPU requirements while using Warp.

To set whether or not the sample is warped, set this field to On or Off (respectively).

Stretch is the "stretch factor," which affects how the sample is warped (if **Warp** is set to **On**). See the note *below* to learn how to minimize CPU requirements while using Warp.

To set the stretch factor, use this field.

BPM is the tempo used when a sample is warped (if **Warp** is set to **On**). See the note *below* to learn how to minimize CPU requirements while using Warp.

To set the tempo of the sample, use this field.

BPM Sync determines whether the tempo of the sample is linked to or independent of the tempo of the sequence.

When **BPM Sync** and **Warp** are both set to **On**, the sample's tempo will be "locked" to the tempo of the sequence.

When **BPM Sync** is set to **Off** but **Warp** is set to **On**, the sample will be independent of the tempo of your sequence use the **Stretch** field to lengthen or shorten a sample. See the note *below* to learn how to minimize CPU requirements while using Warp.

To enable or disable BPM Sync, set this field to On or Off (respectively).

Note: The Warp algorithms are very CPU-intensive and can result in audio drop-outs during playback if used too freely. Be mindful of how (and how often) you use the warp function. You can reduce the CPU resources required by doing any/all of the following:

Avoid using extreme Stretch values.

Minimize the amount of pitch adjustment (e.g., the **Tune** parameter) of warped audio.

Avoid warping very small track regions.

Warp as few tracks or track regions as possible (i.e., reduce the number of total number of voices of the polyphonic limit that use the Warp algorithm at a given time), especially instances where the warped regions start at the same time.

Avoid rapidly triggering samples that are warped.

If you have warped samples used in a drum program, consider using the **Flatten Pad** function to consolidate the affected pad's layers into one audio sample. After you flatten the pad, its sample/samples no longer need to be warped. To see the user guide in the MPC software and learn how to do this, click the **Help** menu, select **MPC Help**, and select **MPC User Manual**.

The second Samples tab contains controls for the pitch and volume level of each layer.

📘 🛛 Pro	enam: <mark>Bass</mark>			LOOP	Lock: ON
S1: E	Bass 01 Semi	•	0Fine:	-1 Lev	el: 127
52: B	ass 02 <mark>Semi</mark>	•	0 Fine:	0 Lev	el: 107
S3: REVO	.ON C1 Semi	•	2 Fine:	0 Lev	el: 84
S4:	Semi	:	0 Fine:	0 Lev	el: 127
Master	Samples	Pan Vel	Flt Env	Lfo Mod	Effects

Loop Lock determines if the loop point of a sample layer is "linked to" or "unlinked from" the start point.

When set to **On**, the loop point is the same as the start point.

When set to **Off**, the loop point is independent from the start point and indicated by a separate loop marker. This is the same as the **Loop Lock** button in Sample Edit Mode.

To turn Loop Lock on or off, set this field to On or Off (respectively).

S1-4 (Sample 1–4) is the name of the sample assigned to the current layer (1–4) of the keygroup. Remember that the sample has to be loaded into the project's sample pool beforehand. To learn how to load samples into a project, please see *Browser*.

To assign a sample, use this field or turn the corresponding Q-Link knob (1, 5, 9, or 13 on MPC Renaissance or the Q-Link knobs in the first column on MPC Studio).

Semi is the coarse tuning of the sample on each layer: -36 to +36 semitones. 0 corresponds to no coarse-tuning adjustment. This will affect the length of the sample (if **Warp** is set to **Off**).

To set the coarse tuning of the sample on each layer, use this field or turn the corresponding Q-Link knob (2, 6, 10, or 14 on MPC Renaissance or the Q-Link knobs in the second column on MPC Studio).

Fine is the fine tuning of the sample on each layer: **-99** to **+99** cents. **0** corresponds to no fine-tuning adjustment. This will affect the length of the sample (if **Warp** is set to **Off**).

To set the fine tuning of the sample on each layer, use this field or turn the corresponding Q-Link knob (3, 7, 11, or 15 on MPC Renaissance or the Q-Link knobs in the third column on MPC Studio).

Level is the volume of the sample on each layer, enabling you to control the "balance" of the samples assigned to the pad.

To set the volume level of the sample on each layer, use this field or turn the corresponding Q-Link knob (4, 8, 12, or 16 on MPC Renaissance or the Q-Link knobs in the fourth column on MPC Studio).

The third Samples tab contains a control for the offset of the sample on each layer.

📘 🛛 Pr	oanar	n <mark>:</mark> Bass			Loop	Lock: ON
S1:	Bass	01 Offs	et:	0		
52:	Bass	02 Offs	et:	-1		
S3: RE	V0.0N	C1 Offse	et:	10		
54:		Offse	et:	0		
Maste	r I	Samples	Pan Vel	Flt Env	Lfo Mod	Effects

Loop Lock determines if the loop point of a sample layer is "linked to" or "unlinked from" the start point.

When set to **On**, the loop point is the same as the start point.

When set to **Off**, the loop point is independent from the start point and indicated by a separate loop marker. This is the same as the **Loop Lock** button in Sample Edit Mode.

To turn Loop Lock on or off, set this field to On or Off (respectively).

S1-4 (Sample 1–4) is the name of the sample assigned to the current layer (1–4) of the keygroup. Remember that the sample has to be loaded into the project's sample pool beforehand. To learn how to load samples into a project, please see *Browser*.

To assign a sample, use this field or turn the corresponding Q-Link knob (1, 5, 9, or 13 on MPC Renaissance or the Q-Link knobs in the first column on MPC Studio).

Offset is the time offset of the sample's playback on each layer. When this setting is a positive value, playing a pad in the keygroup will immediately trigger the sample on that layer but at a later point in the sample (specified by this setting). When this setting is a negative value, the sample playback on that layer will be delayed by the amount specified by this setting.

To set the offset of the sample on each layer, use this field or turn the corresponding Q-Link knob (2, 6, 10, or 14 on MPC Renaissance or the Q-Link knobs in the second column on MPC Studio).



Panning & Velocity

The Pan Vel tab contains settings that determine the stereo placement and velocity ranges of each layer of the keygroup.

S2 Pan: 3L	Low: Low:	••••••	Hish: Hish:		Root: Root:	Sample Sample
	Low:	10	Hish:	127	Root:	Sample
S3 Pan: C	Low:	28	Hish:	127	Root:	C2
S4 Pan: C	Low:	0	Hish:	127	Root:	Sample
Master Same		Pan Vel	Fit Env	Lfo	Mod	Effects

Pan is the panning position of the sample on each layer in the stereo field: **50L** (left) to **50R** (right). **C** indicates the center position.

To set the panning position of the sample on each layer, use this field or turn the corresponding Q-Link knob (1, 5, 9, or 13 on MPC Renaissance or the Q-Link knobs in the first column on MPC Studio). If you use the numeric keypad to change this number, use values from 0 to 100: -50 corresponds to 50L, 0 corresponds to C, and +50 corresponds to 50R.

Low and High determine the lowest and highest velocities (respectively) that will trigger the sample on each layer. A range from 0 to 127 lets the layer respond to the entire velocity range which is input from a pad in the keygroup, while, for example, a range from 100 to 127 lets the layer respond only to higher velocity levels. By assigning several samples of one instrument, you can create a realistic-sounding "multi-sample" by adjusting the velocity ranges of each layer accordingly.

For example, you may have three samples of a piano key pressed with low force, medium force, and high force. You can set each sample to a layer and set the velocity ranges so only low velocities trigger the low-force sample, only mid-range velocities trigger the medium-force sample, and only high velocities trigger the high-force sample.

To set the velocity range of the sample on each layer, use these fields or turn the corresponding Q-Link knob: for low velocities, turn Q-Link Knob 2, 6, 10, or 14 (MPC Renaissance) or the second column of Q-Link knobs (MPC Studio); for high velocities Q-Link Knob 3, 7, 11, or 15 (MPC Renaissance) or the third column of Q-Link knobs (MPC Studio).

Root is the root note of the sample. This determines which note will play the sample at its original pitch when in a keygroup program. **Sample** denotes to the sample's default pitch.

To set the root note of the sample, use this field or turn the corresponding Q-Link knob (4, 8, 12, or 16 on MPC Renaissance or the Q-Link knobs in the fourth column on MPC Studio). If you use the numeric keypad to change this number, use values from 0 to 100: -50 corresponds to 50L, 0 corresponds to C, and +50 corresponds to 50R.



Filter Envelope

The FIt Env tab contains settings for the filter and amp envelopes that affect the keygroup.

📄 🛛 Prosi	ram: Bass				
Туре:	Low 2 Cuto	ff: 65	Reso:	6 Env:	37
Kbd Trk:	2 V>At	tack: 3	SU>Env:	9 V>Fil	ter: 6
Flt Atk:	5 F1t	Dec: 30	Flt Sust:	127 Flt R	el: 6
Ame Atk:	9 Amp	Dec: 75	Amp Sust:	127 Amp R	el: 52
Master	Samples	Pan Vel	Fit Env	Lfo Mod	Effects

Type determines the filter that is applied to the selected keygroup. See *Appendix* > *Glossary* > *Filter* for an explanation of the available filter types.

To set the filter type, use this field or turn Q-Link Knob 13 (MPC Renaissance) or the first Q-Link knob in the first row (MPC Studio).

Cutoff is the cutoff frequency for low-pass and high-pass filter types or the center frequency for band-pass and bandstop filter types. See *Appendix* > *Glossary* > *Filter* for an explanation of the available filter types.

To set the filter cutoff frequency, use this field or turn Q-Link Knob 14 (MPC Renaissance) or the second Q-Link knob in the first row (MPC Studio).

Reso (Resonance) is the emphasis of the frequencies around the cutoff point.

Tip: Use values lower than **80** to give more brilliance to the sound. At values higher than **80**, the sound will result in a strong audible boost around the cutoff frequency.

To set the filter resonance, use this field or turn Q-Link Knob 15 (MPC Renaissance) or the third Q-Link knob in the first row (MPC Studio).

Env (Envelope) determines the amount of influence the filter envelope has on the cutoff frequency. Higher settings will increase the modulation of the filter by the envelope; lower settings will result in only subtle changes of the filter **Cutoff** over time.

Tip: To give a sound a more distinctive attack, increase the **Env** setting and set low **Atk** and **Dec** values as well as a medium-low **Sust** value of the filter envelope (**Fit**). This will start a sound with the filter opened and close it shortly afterward, giving it a bright start followed by a darker sustain. String sounds, on the other hand, can sound much more "alive" with low **Env** settings and a high **Atk** value, resulting in a slight fade-in of the higher frequencies.

To set the filter envelope amount, use this field or turn Q-Link Knob 16 (MPC Renaissance) or the fourth Q-Link knob in the first row (MPC Studio).

Kbd>Fit (Keyboard → Filter) sets how much the note value will be added to the filter cutoff. This allows higher notes to sound brighter.

To set the "keyboard to filter," use this field or turn Q-Link Knob 9 (MPC Renaissance) or the first Q-Link knob in the second row (MPC Studio).

V>Attack (Velocity→Attack) determines how much velocity is needed (for a triggered pad in the keygroup) to modulate the Attack (Atk) phase for the Amp envelope.

To set the "velocity to filter attack," use this field or turn Q-Link Knob 10 (MPC Renaissance) or the second Q-Link knob in the second row (MPC Studio).

V>Env (Velocity → Envelope) determines to what degree velocity information affects the amount of the filter envelope's effect on the cutoff frequency.

To set the "velocity to envelope amount," use this field or turn Q-Link Knob 11 (MPC Renaissance) or the third Q-Link knob in the second row (MPC Studio).

V>Filter (Velocity + Filter) determines to what degree the velocity of a pad modulates the cutoff frequency directly.

To set the "velocity to filter cutoff," use this field or turn Q-Link Knob 12 (MPC Renaissance) or the fourth Q-Link knob in the second row (MPC Studio).

The third row of parameters determine how the filter envelope affects the filter frequency over a period of time. There are three possible sets of parameters, depending on the type of envelope:

- AD (attack-decay) envelope: Flt Atk (filter attack), Flt Dec (filter decay), and Dec Type (decay type)
- AHDS (attack-hold-decay-sustain) envelope: Flt Atk (filter attack), Flt Hold (filter hold), Flt Dec (filter decay), and Flt Sust (filter sustain)
- ADSR (attack-decay-sustain-release) envelope: Flt Atk (filter attack), Flt Dec (filter decay), Flt Sust (filter sustain), and Flt Rel (filter release)

See the later *Anatomy of an Envelope* section to learn about these envelope parameters.

To adjust the filter envelope parameters, use these fields or turn the corresponding Q-Link knob (5–8 on MPC Renaissance or the Q-Link knobs in the third row on MPC Studio).

To adjust the overall influence of the envelope on the filter frequency, use the Env field or turn Q-Link Knob 16 (MPC Renaissance) or the first Q-Link knob in the fourth column (MPC Studio).

To set the envelope type, press F1/Master and set Sample to One Shot (O.ht), if you want to select an AD or AHDS envelope, or Note On (N.On), if you want to use ADSR envelopes only. To select an AD or AHDS envelope, press F4/FIt Env, select one of the eight bottom-most parameters, and then press Window. Use the Filter Envelope AD Mode field in the screen that appears to select an AD envelope (On) or AHDS (Off), and then press F4/Close.

The fourth row of parameters determine how the amp envelope affects the volume level over a period of time. There are three possible sets of parameters, depending on the type of envelope:

- AD (attack-decay) envelope: Amp Atk (amp attack), Amp Dec (amp decay), and Dec Type (decay type)
- AHDS (attack-hold-decay-sustain) envelope: Amp Atk (amp attack), Amp Hold (amp hold), Amp Dec (amp decay), and Amp Sust (amp sustain)
- ADSR (attack-decay-sustain-release) envelope: Amp Atk (amp attack), Amp Dec (amp decay), Amp Sust (amp sustain), and Amp Rel (amp release)

See the later *Anatomy of an Envelope* section to learn about these envelope parameters.

To adjust the amp envelope parameters, use these fields or turn the corresponding Q-Link knob (9–12 on MPC Renaissance or the Q-Link knobs in the fourth row on MPC Studio).

To set the envelope type, press F1/Master and set Sample to One Shot (O.ht), if you want to select an AD or AHDS envelope, or Note On (N.On), if you want to use ADSR envelopes only. To select an AD or AHDS envelope, press F4/Fit Env, select one of the eight bottom-most parameters, and then press Window. Use the Volume Envelope AD Mode field in the screen that appears to select an AD envelope (On) or AHDS (Off), and then press F4/Close.



LFO Modulation

The Lfo Mod tab contains settings that determine sample playback and low-frequency oscillator of the pad.

🖃 🛛 Prosr	ram: Bass					
V>Pitch:	4 V)Atk	:	25 V>Amp:	127 USF	an:	0
Wave:	Sine Rate:		64 Sanc‡	None		
L>Pitch:	0L>Fil	ter:	9 L>Ame:	11 LF0	>Pan :	0
	Pitck	18	Ø WHL>LFO:	Ø AFT	>FILT:	Ø
Master	Samples	Pan Vel	l 📘 Fit Env	Lfo Mod	Effec	ts.
					_	

V>Pitch (Velocity→Pitch), V>Atk (Velocity→Attack), V>Amp (Velocity→Amp), and V>Pan (Velocity→Panning) determine how much the velocity affects the pitch of the sound (Pitch), the attack of the filter envelope (Atk), the volume level of the filter envelope (Amp) and or the panning of the sound (Pan). When you press a pad in the keygroup softly, only minimal modulation is applied. When you press it harder, the modulation amount also gets stronger depending on the setting of the corresponding knob.

To adjust the velocity sensitivity of the pad, use these fields or turn the corresponding Q-Link knob (13–16 on MPC Renaissance or the first row of Q-Link knobs on MPC Studio).

A low-frequency oscillator (LFO) generates a periodic waveform with an adjustable frequency and shape which can be used for modulation purposes. The seven settings in the lower half of the screen affect the LFO applied to the keygroup.

Wave is the type of waveform the LFO uses.

To select the waveform of the LFO, use this field or turn Q-Link Knob 9 (MPC Renaissance) or the first Q-Link knob in the second row (MPC Studio) to select an option:

- Sine (best suited for smooth modulations)
- Triangle (best suited for smooth modulations)
- **S&H** (samples a random value and holds it until the next value is generated)
- Saw (can generate interesting filter or volume changes)
- Saw Down (can generate interesting filter or volume changes)
- Square (interesting results with hard-panning modulations)
- Noise (generates random values and glides)

Rate is the LFO frequency when **Sync** is on. At lower values, it might take some time for the LFO to complete a cycle, while higher values will come closer to audible range.

To set the frequency of the LFO, use this field or turn Q-Link Knob 10 (MPC Renaissance) or the second Q-Link knob in the second row (MPC Studio).

Sync determines if or how the LFO's rate is synchronized with the tempo. You can select one of several time divisions (a. indicates a dotted note; a **T** indicates a triplet-based time division). When **None** is selected, **Sync** is off.

To set the synchronization of the LFO, use this field or turn Q-Link Knob 11 (MPC Renaissance) or the third Q-Link knob in the second row (MPC Studio).

L>Pitch (LFO→Pitch), L>Filter (LFO→Filter), L>Amp (LFO→Amp), and LFO>Pan (LFO→Panning) determine how much the LFO affects the pitch of the sound (Pitch), the cutoff frequency of the filter (Filter), the volume level of the sound (Amp), and the panning of the sound (Pan). When you press a pad in the keygroup softly, only minimal modulation is applied. When you press it harder, the modulation amount also gets stronger depending on the setting of the corresponding knob.

To adjust the LFO destinations of the pad, use these fields or turn the corresponding Q-Link knob (5–8 on MPC Renaissance or the Q-Link knobs in the third row on MPC Studio).

Pitch determines the range (in semitones) of the pitch-bend wheel on a connected MIDI keyboard. (To use this feature, you must have a MIDI device that sends pitch-bend messages connected to your computer.)

To set the range of the pitch-bend wheel, use this field or turn Q-Link Knob 2 (MPC Renaissance) or the second Q-Link knob in the fourth row (MPC Studio).

WHL>LFO determines how much the modulation wheel on a connected MIDI keyboard affects the intensity of the LFO. (To use this feature, you must have a MIDI device that sends modulation messages connected to your computer.)

To set how much the modulation wheel affects the LFO, use this field or turn Q-Link Knob 3 (MPC Renaissance) or the third Q-Link knob in the fourth row (MPC Studio).

AFT>FILT (Aftertouch → Filter Cutoff) determines how much the filter cutoff frequency is affected by aftertouch messages from a connected MIDI keyboard. (To use this feature, you must have a MIDI device that sends aftertouch messages connected to your computer.)

To set how much the filter cutoff frequency affects the filter cutoff, use this field or turn Q-Link Knob 4 (MPC Renaissance) or the fourth Q-Link knob in the fourth row (MPC Studio).



Effects

Effects shows the insert effects and send effect levels for the keygroup. You can select up to four insert effects for each keygroup. Additionally, each keygroup can be sent to up to four return channels, each of which can have up to four insert effects of their own. Their audio will be routed through the insert effects on those returns, and the processed audio will be sent to a master output.

Please see General Features > Effects to learn more about using insert and send effects.

Important: When using keygroup insert effects, they will be applied to that keygroup only. Keep this in mind if you load insert effects to multiple keygroups with overlapping note ranges—the effects will overlap in that range as well.

🗌 Pros	nam: Bass				Inse	ents:	ON
Ins	ert 1: Cho	rus 2-voic	e		Send	1:	43
Ins	ert 2: Rev	erb Larse			Send	1 2:	13
Ins	ert 3:				Send	4 3:	40
Ins	ert 4:				Send	4:	0
Master	Samples	Pan Vel	Fit Env	Lfo	Mod	Effe	ects

Inserts determines whether insert effects are activated (ON) or deactivated (OFF) for the keygroup.

To activate or deactivate all four insert effects, set this field to ON or OFF (respectively).

Insert 1-4 are the four available slots for insert effects on that keygroup.

To load an effect, select an Insert field, and then use the data dial or -/+ buttons. In the Select Effect screen that appears, select an effect. Press F4/Select to load the selected effect or F3/Back to return to the previous screen.

To change the settings of a loaded effect, select an **Insert** field with an effect, and press **Window**. In the screen that appears, you can select and change each parameter (you can use the **numeric keypad** on some of them). Press **F4/Close** to return to the previous screen.

To activate or deactivate an effect, select its Insert field, and press Window. In the screen that appears, press F6/On/Off to activate or deactivate the effect. Press F4/Close to return to the previous screen.

To activate or deactivate all four insert effects, set the Inserts field to ON or OFF (respectively).

Send 1–4 are the audio signal levels that the keygroup sends to the four return channels, each of which can have up to four insert effects—these are send effects. The send effects will then send the audio to the assigned master output at the designated return levels. You can select up to four send effects for each keygroup, but remember that they will be applied to that keygroup only.

To adjust the send levels, turn their corresponding Q-Link knobs (4, 8, 12, or 16 on MPC Renaissance or the Q-Link knobs in the fourth column on MPC Studio).

Important: To edit the send effects, use the Channel Mixer. See Channel Mixer > Returns to learn more how to do this.

Clip Programs

📄 🛛 Prosr	am <mark>:</mark> Clip 0	01	
Semi:	1		
Fine:	-15		
Launch:	1 Bar		
Program	Pad		

When using clip programs, Program Edit Mode lets you assign a sample (a loop called a **clip**) to each pad in a single bank. You can also edit various settings to determine how each pad launches its assigned clip.

To select a pad, press it. Its parameters will appear on the screen immediately.

To view a specific tab of parameters, press F1/Program or F2/Pad. The Program tab is where you assign clips to pads (see *Program* in this section). The **Pad** tab is where you determine how each pad plays its clip (see *Pad* in this section).

Below is a brief step-by-step process so you can get familiar with setting up a clip. Continue reading the rest of this chapter to learn how to use the parameters in this window.

To assign a clip:

- 1. Press **F2/Pad**, and set the **Sample** field at the top of the screen to the desired clip. For example, start with a four-bar drum loop.
- 2. Note that the **Tempo** field has a value, which is automatically detected.

Set **Warp** to **On** if it is not already. The Warp function keeps the loop in time with the sequence tempo or the master tempo.

- 3. If you need to edit the loop's tempo manually, use the **Tempo** field.
- 4. Set **Fade** to **On** if it is not already. This applies a very small fade-in and fade-out at the start and end of the clip to prevent "clicks" and glitches that can occur if the start or end points are not at "zero-crossings."
- 5. If you need to edit the loop's pitch manually, use the Semi and/or Fine fields, or turn Q-Link Knobs 1 and/or 2 (MPC Renaissance) or the first and second Q-Link knobs in the fourth row (MPC Studio), respectively. These adjust the pitch by semitones and cents. You will hear the tuning adjustments in real time.

These are the buttons under the screen for clip programs:

- F1 Program Press this button to view the Program tab, described here.
- F2 Pad Press this button to view the Pad tab, described *here*.

	Edit Zones			Edit Zones	
	Edit Mode: <mark>Current</mark>		Pa	Edit Mode: <mark>Multiple</mark> ds:A01 A05 A09 A13 B01 B05 B09 B13	
	Close			Close	

You can edit one pad, multiple pads, or all pads of a clip program simultaneously while in Program Edit Mode.

To select how many pads and which pad/pads you are editing, select any parameter in Program Edit Mode, and then press Window. In the Edit Zones screen that appears, set the Edit Mode field:

- **Current**: Only the currently selected pad can be edited.
- **Multiple**: All selected pads can be edited simultaneously.
- All: All pads can be edited simultaneously.

Tip: You can immediately select or deselect multiple pads while on any tab in Program Edit Mode (regardless of the current Edit Mode setting). To do this, press **Shift** and each desired pad. **Edit Mode** will automatically change to the corresponding setting.

Program

The **Program** tab enables you set the program's overall tuning and quantization.

Program: Clip 001					
Semi:	1				
Fine:	-15				
Launch:	1 Bar				
Program	Pad				

Semi is the coarse tuning of the program: -36 to +36 semitones. 0 corresponds to no coarse-tuning adjustment.

To set the coarse tuning of the program, use this field or turn Q-Link Knob 9 (MPC Renaissance) or the second Q-Link knob in the first column (MPC Studio).

Fine is the fine tuning of the program: -99 to +99 cents. 0 corresponds to no fine-tuning adjustment.

To set the fine tuning of the program, use this field or turn Q-Link Knob 5 (MPC Renaissance) or the third Q-Link knob in the first column (MPC Studio).

Launch is the quantization of the program in bars or subdivisions of a bar. When you launch any clips in the program, it will use this quantization. **None** denotes no quantization; when you launch a clip, it will start playing immediately.

To set the quantization of the program, use this field or turn Q-Link Knob 1 (MPC Renaissance) or the fourth Q-Link knob in the first column (MPC Studio).

Pad

The **Pad** tab contains settings to assign a clip to each pad and set its timing, tuning, and playback behavior.

Same:	le <mark>:</mark> Loop I	Dhum M:	inimal		
Stants				Ware:	Off
Gndk					
Темро:	300.00	Play:	Tossle Launch:	PGM Dir:	Fwd
Semi:	0	Fine:	0Mute Gre:	1 Fade:	On
Program	Pad				

Sample is the name of the sample assigned to the pad. Remember that the sample has to be loaded into the project's sample pool beforehand. To learn how to load samples into a project, please see *Browser*. Select **None** to clear the pad's assignment.

To assign a sample to the current pad, use this field.

Warp determines whether or not stretching the time of the sample will change its pitch and vice versa.

When set to **On**, lengthening or shortening the sample (based on the BPM) will not change its pitch.

When set to **Off**, lengthening or shortening the sample will also change its pitch and vice versa. Use the **BPM** setting (described below) in conjunction with this feature. See the note *below* to learn how to minimize CPU requirements while using Warp.

To set whether or not the sample is warped, set this field to On or Off (respectively).

Note: The Warp algorithms are very CPU-intensive and can result in audio drop-outs during playback if used too freely. Be mindful of how (and how often) you use the warp function. You can reduce the CPU resources required by doing any/all of the following:

Avoid using extreme **Stretch** values.

Minimize the amount of pitch adjustment (e.g., the **Tune** parameter) of warped audio.

Avoid warping very small track regions.

Warp as few tracks or track regions as possible (i.e., reduce the number of total number of voices of the polyphonic limit that use the Warp algorithm at a given time), especially instances where the warped regions start at the same time.

Avoid rapidly triggering samples that are warped.

If you have warped samples used in a drum program, consider using the **Flatten Pad** function to consolidate the affected pad's layers into one audio sample. After you flatten the pad, its sample/samples no longer need to be warped. To see the user guide in the MPC software and learn how to do this, click the **Help** menu, select **MPC Help**, and select **MPC User Manual**.

Tempo is the tempo used when a sample is warped (if **Warp** is set to **On**). See the note **above** to learn how to minimize CPU requirements while using Warp.

To set the tempo of the sample, use this field.

Play determines how the clip is played.

To set how the clip is played, use this field or turn Q-Link Knob 6 (MPC Renaissance) or the second Q-Link knob in the third row (MPC Studio) to select an option:

- One Shot: When you press the pad, the entire clip will play from start to end and then stop.
- **Toggle**: When you press the pad, the entire clip will play from start to end and loop indefinitely. Pressing it again—or launching another in the same mute group—will stop its playback. This is the most common usage.



Launch is the quantization of the pad in bars or subdivisions of a bar. When you launch this clip, it will use this quantization instead of the program's quantization (set in the **Program** tab). When set to **PGM**, the pad will use the program's quantization (this is the default setting). **None** denotes no quantization; when you launch a clip, it will start playing immediately.

To set the quantization of the pad, use this field or turn Q-Link Knob 7 (MPC Renaissance) or the third Q-Link knob in the third row (MPC Studio).

Dir (Direction) determines which direction the sample will play.

To set the playback direction, use this field to select an option:

- Forward (Fwd): The sample will play in the normal forward direction.
- Reverse (Rev): The sample will play in reverse.

Alternatively, turn **Q-Link Knob 8** (MPC Renaissance) or the fourth **Q-Link knob** in the third row (MPC Studio).

Semi is the coarse tuning of the pad: -36 to +36 semitones. 0 corresponds to no coarse-tuning adjustment.

To set the coarse tuning of the pad, use this field or turn Q-Link Knob 1 (MPC Renaissance) or the first Q-Link knob in the fourth row (MPC Studio).

Fine is the fine tuning of the pad: -99 to +99 cents. 0 corresponds to no fine-tuning adjustment.

To set the fine tuning of the pad, use this field or turn Q-Link Knob 2 (MPC Renaissance) or the second Q-Link knob in the fourth row (MPC Studio).

Mute Grp determines if the pad is assigned to a mute group: **1–32** or **Off** (no mute group). When pads assigned to the same mute group receive MIDI notes, the last pad played will silence all other pads in that mute group. A mute group affects pads within that program only; mute groups do not affect pads in other programs.

By default, each column of pads is assigned to the same mute group. This means only one pad from each column can be playing its clip at a time. You can use the **Mute Group** field to configure this any way you like, though.

To set the mute group, use this field or turn Q-Link Knob 3 (MPC Renaissance) or the third Q-Link knob in the fourth row (MPC Studio).

Fade determines whether or not a very small fade-in and fade-out are applied at the start and end of the clip. This feature helps prevent "clicks" and glitches that can occur if the start or end points are not placed at the waveform's "zero-crossings."

To set whether or not the sample uses a fade-in and fade-out, set this field to On or Off (respectively) or turn Q-Link Knob 4 (MPC Renaissance) or the fourth Q-Link knob in the fourth row (MPC Studio).

The start and end points of the clip assigned to the pad are not shown in the screen, but you can still use the MPC hardware to adjust them.

To set the clip's start point, use Q-Link Knobs 9–12 (MPC Renaissance) or the Q-Link knobs in the first row (MPC Studio) to adjust the start point with varying degrees of resolution.

To set the clip's end point, use Q-Link Knobs 13–16 (MPC Renaissance) or the Q-Link knobs in the second row (MPC Studio) to adjust the end point with varying degrees of resolution.



Plugin Programs

When using plugin programs, Program Edit Mode shows an overview of all available plugin parameters with an adjustable parameter for each one.

Program: Hybrid 3 001						
1 Shape:	27 1 Ser	i: 0	1 Cents:	-3.11 Lev	el: 100	
2 Shape:	100[2] Ser	i: 0	2 Cents:	+2.9 2 Lev	∍l: 100	
3 0.ave:	03 Lev	el: 1	3 Sub:	03 Noi:	se: Ø	
1 Type: MuWa2 Type: Mu.i-Wa3 Type: Saw						
OSC A 🗍	FILTER A	ENV A	OSC B	FILTER B	ENV B	

The buttons under the screen will vary depending on the plugin. Press each one to access a tab of parameters that you can adjust using the **data dial**, –/+ buttons, or corresponding **Q-Link knob**. Some of the fields may not contain a parameter.

To select preset within your plugin:

- 1. Select the **Program** field at the top of the screen, and press **Window**.
- 2. In the screen that appears, select the desired preset, and press **F5/Select** to continue or **F4/Close** to return to the previous screen.
- 3. You can press **F2/AutoSel** to activate or deactivate automatic selection, which will automatically load each preset as you move through the list.

To assign a parameter to one of the fields, use the MPC software.

Note: To see the user guide in the MPC software and learn how to do this, click the Help menu, select MPC Help, and select MPC User Manual.



MIDI Programs

When using MIDI programs, Program Edit Mode shows an overview of all available MIDI CCs with an adjustable parameter for each one.

📔 🛛 Prosi	ram <mark>:</mark> Midi 00	31			
14:	57 15:	21	16:	0 17:	29
10:	40 11:	102	12:	30 13:	0
6:	35 7:	8	8:	126 9:	127
2:	12 3:	0	4:	05:	0
Page1	Page2	Page3	Pase4	Page5	Page6

The buttons under the screen correspond to six tabs. Press each one to access 16 MIDI CCs on each tab that you can adjust using the **data dial**, –/+ buttons, corresponding **Q-Link knob**, or **numeric keypad**.

To assign a parameter to one of the fields, use the MPC software.

Note: To see the user guide in the MPC software and learn how to do this, click the Help menu, select MPC Help, and select MPC User Manual.

CV Programs

When using CV programs, Program Edit Mode shows an overview of all eight CV outputs with an adjustable voltage parameter for each one.

Program: CV 001						
CV .t 5:	2.400 CV .	t 6: 3.25V	CV .t 7:	3.85VCV.t	8: 5.00V	
CV .t 1:	0.00VCV .	t 2: 0.75V	CV .t 3:	1.70VCV .t	4: 1.80V	
Page1	Page2	Page3	Page4	Page5	Page6	

The buttons under the screen correspond to six tabs. You can press each one to access a tab, but only the first tab (**Page1**) contains the eight adjustable voltage parameters that you can adjust using the **data dial**, -/+ buttons, corresponding **Q-Link knob**, or **numeric keypad**.

To assign a parameter to one of the fields, use the MPC software.

Note: To see the user guide in the MPC software and learn how to do this, click the Help menu, select MPC Help, and select MPC User Manual.

Anatomy of an Envelope

An envelope creates a variable control signal. It can be used, for instance, to modulate the filter settings of a sound over a given period of time.

Drum programs and keygroup programs can use three types of envelopes: **AD** (attack-decay), **AHDS** (attack-hold-decay-sustain), or **ADSR** (attack-decay-sustain-release).

For drum programs, when **Sample** (in the **Lfo Mod** tab) is set to **One Shot** (**OneSht**), it will use **ADSR** envelopes only. When set to **Note On** (**NoteOn**), it can use an AD or ADHS envelope. See *Program Edit Mode > Drum Programs > Filter Envelope* and *LFO Modulation* to learn how to change the envelope.

For keygroup programs when **Sample** (in the **Master** tab) is set to **One Shot** (**O.ht**), it can use an **AD** or **AHDS** envelopes. When set to **Note On** (**N.On**), it will use **ADSR** envelopes only. See *Program Edit Mode* > *Keygroup Programs* > *Filter Envelope* and *Master* to learn how to change the envelope.

With **AD** envelopes, the following happens when you trigger a sample:

- 1. Within the period of time you have defined with the attack (**Atk**), the sample volume rises to its maximum value.
- 2. The sample's maximum volume will be maintained until its decay (**Dec**) phase, when the sample's volume will gradually drop to zero over the set duration. The decay can function in one of two ways:
 - **Decay From Start** (Strt): The volume will start decreasing immediately after reaching its maximum level.
 - **Decay From End (End)**: The maximum volume will be maintained for a hold phase until it reaches the decay phase.

With AHDS envelopes, the following happens when you trigger a sample:

- 1. Within the period of time you have defined with the attack (Atk), the sample volume rises to its maximum value.
- 2. The sample's maximum volume will be maintained during the **Hold** phase.
- 3. During the decay (**Dec**) phase, the sample's volume will gradually drop to the **Sustain** (**Sust**) level.
- 4. The sample's volume will stay at the sustain level (**Sust**) until the pad is released.

With **ADSR** envelopes, the following happens when you trigger a sample:

- 1. Within the period of time defined by the attack (**Atk**), the sample volume rises to its maximum value.
- 2. During the decay (**Dec**) phase, the sample's volume will gradually drop to the **Sustain** (**Sust**) level.
- 3. The sample's volume will stay at the **Sustain** (**Sust**) level until the **Release** (**Rel**) phase begins.
- 4. The sample's volume will drop to "zero" over the duration set by **Release** (**Rel**).

FILTER ENVELOPE	AD AHDS		
	End 🔻		





Browser

The Browser lets you navigate your computer's internal hard disk to load samples, sequences, songs, etc. Using filter buttons and user-definable folders, you can easily adapt it to your preferred workflow. You can also audition (preview) your samples before loading them.

To enter the Browser, press Browser.

<u>1</u> 23343	C: NUsen	s∖Akai∖Dr	rum and F	ercussion	Samples
💽 01 Kicks					
💼 02 Snares					
📄 03 Sidesticks					
04 Claps					
05 Hats					
Auto	5 P1	ay Vi	olume	Set	Open
<u> ආලාභා අත් අත් අත් අත් අත් අත් අත් අත් අත් අත්</u>	C: NUsen	s∖Akai∖D.	cussion	Samples\0	9 Cymbals
🗰 1980Crash.way	1				
🗰 1980RideA.wav					
🗰 1980RideB.wav					
₩ 1980R1deB.way					
		· · · · · · · · · · · · · · · · · · ·	·····		

These are the buttons under the screen:

- **F2** Auto Press this button to enable or disable the audition function. When enabled, each sample file will automatically play when it is first selected.
- **F3 Play** Press this button to play the sample.
- **F4 Volume** Press and hold this button to show the **Audition Volume** field, which you can use to adjust how loudly samples play in the Browser.
- **F5** Set Press this button to assign the current location to a folder button. Use the data dial or -/+ buttons to select one of Folders 1–5 and press F5/Do It to confirm your choice or F4/Cancel to return to the previous screen.
- **F6 Open** When a folder is selected, press this button to enter it. Alternatively, press the **right cursor**.
- F6 Load When a file is selected, press this button to load it.

If the file is a **project**, press **F4/OK** to confirm your choice or **F3/Cancel** to return to the previous screen.

If the file is a **sequence**, press **F5/Do It** to confirm your choice or **F4/Cancel** to return to the previous screen.

If the file is a **sample** (in a supported format), it will be loaded immediately to your project's sample pool.



To enter a folder, press **F6/Load**. You can also use the folder buttons to jump immediately to those pre-assigned file paths (see *below* to learn how to assign these file paths):

Folder 1: Shift+Project/Folder 1.

Folder 2: Shift+Sequence/Folder 2.

Folder 3: Shift+Program/Folder 3.

Folder 4: Shift+Sample/Folder 4.

Folder 5: Shift+No Filter/Folder 5.

To move up one folder level, press the left cursor.

To move through a list, turn the data dial, use the up or down cursors, or use the -/+ buttons.

To load a selected file, press F6/Load.

If the file is a project, press F4/OK to confirm your choice or F3/Cancel to return to the previous screen.

If the file is a sequence, press F5/Do It to confirm your choice or F4/Cancel to return to the previous screen.

If the file is a **sample** (in a supported format), it will be loaded immediately to your project's sample pool.

You can play a sound file to preview it before loading it into your project. The Audition feature lets you do this automatically as you move through lists of files.

To play a selected sound, press and hold F3/Play.

To enable or disable the audition function, press F2/Auto. When enabled, each sample file will automatically play when it is first selected.

To set the volume level of sounds that play in the Browser, press and hold F4/Volume. Use the numeric keypad, data dial, or –/+ buttons to change the number of Audition Volume in the screen that appears.

To get the most efficient use of the Browser, set the file paths to your favorite drive locations first. There are five **folder buttons** labeled **1–5** in the upper-right corner. You can set these to be shortcuts to five locations on your MPC hardware's internal drive and/or any connected storage devices, giving you quick access to your files.

To assign the current location to a folder button, press F5/Set. Use the data dial or -/+ buttons to select one of Folders 1–5 and press F5/Do It to confirm your choice or F4/Cancel to return to the previous screen.

To enter a shortcut folder, press the corresponding combination of buttons below:

Folder 1: Shift+Project/Folder 1.

Folder 2: Shift+Sequence/Folder 2.

Folder 3: Shift+Program/Folder 3.

Folder 4: Shift+Sample/Folder 4.

Folder 5: Shift+No Filter/Folder 5.

Sample Record Mode

Sample Record Mode lets you record audio samples to use in your projects.

Important: To record any audio, you need to connect an audio source to your MPC hardware or to your computer's audio interface.

Important: The **Input**, **Channel**, **Monitor**, **Threshold**, and effects (**Fx**) are the same for both Sample Record Mode and the Looper.

To enter Sample Record Mode, press Shift+Sample Edit/Sample Rec.

Now:	002 <mark>:04:467</mark>		Inserts: ON
	Input: In 1,2 shold: -40dB	Channel: STEREO Time: 8:21	Monitor: ON Output: STEREO
Left			
Right			
	<u> </u>		
Sampler	Sample (Peak Fx	Record

Use the **cursors** to select each field, and then use the **data dial** or -/+ buttons to change the parameter. If the field is a number, you can use the **numeric keypad** to enter a number and then press **Enter** to confirm it.

These are the buttons under the screen during normal operation:

- F1Sampler/LooperPress this button to switch between Sample Record Mode and the Looper.
- F2Sample/Slice/
Pad Tap/Pad HoldPress this button to cycle through the four sampling methods: Sample, Slice,
Pad Tap, and Pad Hold.F2Sample/Slice/
Pad Tap/Pad HoldPress this button to cycle through the four sampling methods: Sample, Slice,
Pad Tap, and Pad Hold.
- F3 Peak Press this button to reset the peak indicator on the input level meter.
- F4 Fx Press this button to show and edit the sampler's insert effects.
- F6 Record Press this button to record-arm the sampler.

These are the buttons under the screen when the sampler is record-armed:

- F4 Fx Press this button to show and edit the sampler's insert effects.
- F5 Cancel Press this button to record-disarm the sampler.
- F6 Start Press this button to start recording in the sampler.

To set up the sampler before recording:

- 1. Make sure to reduce the volume levels of your audio source and speakers, headphones, and/or monitors before you make any connections to avoid "pops" or feedback.
- 2. Connect a synthesizer or other line-level audio source to the input/inputs of your MPC hardware.
- 3. Turn the **Rec Gain** knob to set the input level while playing your audio source. You should now see the level in the meter. Make sure it does not exceed the maximum level (the meter should not be "peaking" constantly).
- 4. Set the recording controls as desired (described in this chapter).
- 5. Press F6/Record to record-arm the sampler.

You can record using four different methods: *Sample*, *Slice*, *Pad Tap*, or *Pad Hold*, all described later in this chapter. The following controls are present regardless of which method you use.

To select a sampling method, press F2 to cycle through them: Sample, Slice, Pad Tap, Pad Hold.



Now is the time counter at the top of the screen, which shows the current playhead position. See *General Features* > *Now & Locators* to learn about this.

Inserts determines whether insert effects are activated (ON) or deactivated (OFF) for the sampler and Looper.

Important: These effects are applied to the audio as you record it. This means that the effects cannot be "removed" from the sound later. Learn more about how effects work in **General Features** > **Effects**.

To activate or deactivate the insert effects, set this field to ON or OFF (respectively).

To load, activate, deactivate, or edit the insert effects, press F4/Fx.

Input determines the source of the recording in Sample Record Mode (and the Looper). You can select an external audio signal (**In 1,2–In 31,32**) or an internal signal (**Resample**).

Tip: Because resampling does not record from an external source, it does not require an audio connection and can record without any loss in audio quality. Furthermore, you can resample two or more samples at once by pressing the corresponding pads simultaneously.

To set the input, use this field. All options are stereo pairs. If you want to record a mono signal, use the **Channel** field to determine which one is the source.

To set which channel is the source, use the Channel field to select the left channel only (LEFT), right channel only (RIGHT), or both channels (STEREO).

Channel determines which channel you will record from the source while using Sample Record Mode (and the Looper): the left channel only (**LEFT**), right channel only (**RIGHT**), or both channels (**STEREO**).

To set which channel is the source, use this field.

Monitor determines whether or not input monitoring is on or off while using Sample Record Mode (and the Looper). When on, the audio you hear in your headphones will be taken **before** it reaches the sampler, ensuring zero latency. When off, the audio you hear in your headphones will be taken **after** it is processed in the sampler, so there may be some latency, but you will hear the audio source as it sounds in the recording.

To activate or deactivate input monitoring, set this field to ON or OFF (respectively).

Tip: To avoid possible clicks or feedback while input monitoring, reduce the level of the audio sources.

Threshold indicates the minimum audio signal level required to start the sampler (or Looper) when it is recordarmed. In other words, when record-armed, the sampler will automatically start recording when the incoming audio signal is louder than this threshold. The **T** marker under the **level meters** is a visual indication of this setting.

Set this level carefully. If you set it too high, the recording may not start when you play the input source, or the start of the material you wanted to record may be missing. If you set it too low, the recording may start too early, before you play the external source. Use the level meter to find the appropriate setting.

To set the threshold, use this field, or Q-Link Knob 1 (MPC Renaissance) or the first Q-Link knob (MPC Studio).

Time determines the maximum sampling time up to **19 minutes** and **59 seconds** (**19:59**) per sample. We recommend setting these to values that roughly match your estimated recording duration.

To set the sampling time, use this field or turn Q-Link Knobs 3 and 4 (MPC Renaissance) or the third and fourth Q-Link knobs (MPC Studio) to set the Minutes and Seconds (respectively). If you use the numeric keypad to enter a time, enter the total number of seconds (e.g., enter 90 instead of 1:30).

Output determines if the recorded sample will be monaural (Mono) or binaural (Stereo).

To set whether the recorded sample will be monaural or binaural, use this field.

The Left/Right level meters shows the current input gain level of the incoming audio signal. The **T** marker under the **level meters** is a visual indication of the **Threshold** setting.

You can record using four different methods: Sample, Slice, Pad Tap, or Pad Hold, all described later in this chapter.

To select a sampling method, press F2 to cycle through them: Sampler, Slice, Pad Tap, Pad Hold.

Peak allows you to reset the peak indicator when the input level meter has exceeded the maximum volume level.

To reset the peak indicator, press F3/Peak.

Fx shows any enabled or disabled effects for Sample Record Mode (and the Looper).

Important: These effects are applied to the audio as you record it. This means that the effects cannot be "removed" from the sound later. Learn more about how effects work in **General Features** > **Effects**.

To load, activate, deactivate, or edit the insert effects, press F4/Fx. Inserts 1–4 show the insert effects loaded to Sample Record Mode (and the Looper).

To load an effect, use its Insert field. Select an effect in the Select Effect screen that appears. Press F4/Select to load the selected effect or F3/Back to return to the previous screen.

To change the settings of a loaded effect, select its Insert field, and press Window. In the screen that appears, you can select and change each parameter (you can use the **numeric keypad** on some of them). Press **F4/Close** to return to the previous screen.

To activate or deactivate an effect, select its Insert field, and press Window. In the screen that appears, press F6/On/Off to activate or deactivate the effect. Press F4/Close to return to the previous screen.

To activate or deactivate all four insert effects, set the Inserts field to ON or OFF (respectively).

To return to the previous screen, press F4/Fx.

Press **F6/Record** to record-arm the sampler. The button will then change to **Start** and **Waiting for Signal** will appear in the screen.

To start recording, start performing so that the incoming audio level exceeds the **Threshold** setting, or press **F6/Start** to start recording manually. For reference, the **Sample Length** counter shows you the length of your sample during the recording procedure.

To disarm the sampler instead, tap F5/Cancel.



Sample

Using this method, you can insert slice markers directly in your sample as you record it.

Slice markers divide the sample into multiple regions called **slices**, which you can adjust in the Chop Mode of Sample Edit Mode (see **Sample Edit Mode** > **Chop Mode** for more information). This is useful when working with a long sample with different sounds throughout (e.g., a drum loop or a long melodic or harmonic passage).

To select the Sample method, press F2 to cycle through the options until Sample appears in the button.

Now: 0	002 <mark>:04:467</mark>		Inserts: ON
	Input: In 1,2 shold: -40dB	Channel: STEREO Time: 8:21	Monitor:ON Output:STEREO
Left			
Risht			
Sampler	Sample [Peak Fx	Record
Now: 8	001 <mark>:01:000</mark>		
	Sam	le Lensth: 00:10:14	ŧ
Left			
Risht			
	<u> </u>		
Recordi	.ng	Fx (Slice + Stop

To start recording, start performing so that the incoming audio level exceeds the **Threshold** setting, or press **F6/Start** to start recording manually. For reference, the **Sample Length** counter shows you the length of your sample during the recording procedure.

To disarm the sampler instead, tap F5/Cancel.

To stop recording, press F6/Stop.

To insert a slice marker in a sample while recording, press Slice+ (in the lower-right corner) as the sample records. Each time you press it, a slice marker will be placed at that location.

After you stop your recording, the Keep or Discard Sample window will appear.

	Ke					
Name: N	Name: New Sample					
Pre:)rums					
Assien	To Pad: A05	5				
Ro	ot Note:C3					
save		Play	Discard	Кеер	Edit	

Name is the name of the new sample.

Prg is the program to which the sample will be assigned.

To assign the sample to a program, use this field. Select <none> to save it to the project without assigning it to a program.

Assign To Pad determines the pad (in the program shown in the Prg field) to which the sample will be assigned.

To assign the sample to a pad within the program, use this field or press the pad. Select **Off** to assign it to the program without assigning it to a pad.

Root Note is the root note of the sample. This determines which note will play the sample at its original pitch when in a keygroup program.

To set the root note, use this field.

F1/Save saves the sample.

F3/Play plays the sample.

F4/Discard erases the recorded sample and returns to the previous screen.

F5/Keep saves the recorded sample with the settings in this window and returns to the previous screen.

F6/Edit opens Sample Edit Mode so you can edit the recorded sample (recommended, see Sample Edit Mode for more information).

If you recorded a sample while a sequence was playing, the **Keep or Discard Sample** window will show a few more options if you set **Assign To Pad** to a pad.

Q	-	Ke	ep or Dis	card Sampl	e	
	Name:	New Sample2				
	Pre:	Program 001		Trk: 001-Tr	nack 01	
	Assie	n To Pad: <mark>A0</mark>	1 Add Ev	ent: Yes	At: Trisse	n 📗
	Root Note: C3					
	save		Play	Discard	Кеер	Edit

Add Event determines whether or not the sample will be added to the sequence you played.

To select whether or not the sample is added, set this field to Yes or No (respectively).

At determines where you want the event to start. When set to **Start**, the sample will be a note event at the start of the currently playing sequence. When set to **Trigger**, the sample will be a note event where you began recording it in the currently playing sequence.

To set where the event will start, set this field to Start or Trigger.

Track is the track that will contain the new event.

To set which track will contain the new event, use this field.

F1/Save saves the sample.

F3/Play plays the sample.

F4/Discard erases the recorded sample and returns to the previous screen.

F5/Keep saves the recorded sample with the settings in this window and returns to the previous screen.

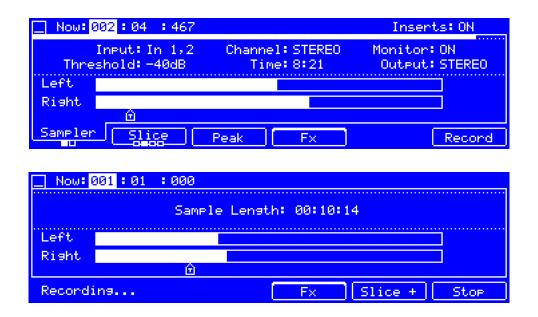
F6/Edit opens Sample Edit Mode so you can edit the recorded sample (recommended, see Sample Edit Mode for more information).



Slice

Using this method, the pads correspond to slices of the currently recorded sample. Slice markers divide the sample into multiple regions called **slices**, which you can adjust in the Chop Mode of Sample Edit Mode (see *Sample Edit Mode > Chop Mode* for more information). This is useful when working with a long sample with different sounds throughout (e.g., a drum loop or a long melodic or harmonic passage).

To select the Slice method, press F2 to cycle through the options until Slice appears in the button.



To start recording, start performing so that the incoming audio level exceeds the **Threshold** setting, or press **F6/Start** to start recording manually. For reference, the **Sample Length** counter shows you the length of your sample during the recording procedure.

To disarm the sampler instead, tap F5/Cancel.

To stop recording, tap Stop under the Sample Length counter.

To insert a slice marker in a sample while recording, press any pad as the sample records. Each time you press it, a slice marker will be placed at that location.

The number of the pad that flashes **red** is the number of the slice marker that will be inserted next. The numbers of the pads that are lit **yellow** are the numbers of the slice markers that are already inserted.

When you are done recording, you can name the sample and create a new program using the slices.

To stop recording, press F6/Stop.

After you stop your recording, the Keep or Discard Sample window will appear.

	Ke	eep or Dis	card Sampl	e	
Create	Name: N • New Prs: <mark>W</mark>	lew Sample lith Non-D	estructive	Slices	
Save		Play	Discard	Create	Edit



Create New Prg determines how each pad's layer settings will be set when each slice is assigned to it (see *Program Edit Mode* to learn more about the parameters mentioned below):

Off will not create a program, but the slices will still be added to your project's sample pool.

With Non-Destructive Slices will create a new program with each pad's Slice setting set to the slice number. This is identical to how you can assign samples in Sample Edit Mode (as described in Sample Edit Mode > Chop Mode > Converting or Assigning Slices).

With Pad Parameters will create a new program with each pad's Slice setting set to Pad. The pad Start and End parameters will be set to the slice's start point and end point values, and the Loop position parameter will be set to the slice's start point but with Pad Loop deactivated. This is identical to how you can assign samples in Sample Edit Mode (as described in Sample Edit Mode > Chop Mode > Converting or Assigning Slices).

F1/Save saves the sample.

F3/Play plays the sample.

F4/Discard erases the recorded sample and returns to the previous screen.

F5/Create saves the recorded sample with the settings in this window and returns to the previous screen.

F6/Edit opens Sample Edit Mode so you can edit the recorded sample (recommended, see Sample Edit Mode for more information).

Pad Tap

Important: This mode works for **drum programs only**; you must select a drum program before using this mode. Otherwise, this feature will not do anything, even though it may appear to work.

With this method, pressing a pad immediately starts or continues recording directly to that pad (make sure you are using the desired program before you start recording). Pads with assigned samples are lit **bright yellow**. Pads without samples are lit **dim yellow**.

To select the Pad Tap method, press F2 to cycle through the options until Pad Tap appears in the button.

Now:	002 <mark>:04 :467</mark>		Inserts: ON
Thre	Input: In 1,2 shold: -40dB	Channel:STEREO Time:8:21	Monitor: ON Output: STEREO
Left			
Risht			
	<u> </u>		
Sampler		Peak Fx	Record

To start recording to a pad, press it. Recording will start immediately, and the pad will flash **red**. If you press a new pad, the recording will stop on the previous pad, which will turn **green**, and start on the new pad, which will flash **red**.

Note: If you start recording by pressing **F6/Record**—or if the volume exceeds the level of the **threshold slider**—the sample will record to your project's sample pool, not to a pad.

To stop recording to a pad, press the currently recording pad, which is flashing red. The sample will continue recording. You can start recording on another pad at any time.

To stop recording, press F6/Stop.

When you are done recording, each pad that you have pressed during recording:

will have its Slice setting set to Pad;

will have its pad Start and End set to the slice's start point and end point values; and

will have its **Loop** position set to the slice's start point but with **Loop** deactivated.

This is identical to how you can assign samples in Sample Edit Mode (as described in *Sample Edit Mode > Chop Mode > Converting or Assigning Slices*).

Tip: We recommend editing your recorded sample in **Sample Edit Mode** (see **Sample Edit Mode** for more information).



Pad Hold

Important: This mode works for **drum programs only**; you must select a drum program before using this mode. Otherwise, this feature will not do anything, even though it may appear to work.

With this method, pressing and holding a pad immediately starts or continues recording directly to that pad (make sure you are using the desired program before you start recording). Pads with assigned samples are lit **bright yellow**. Pads without samples are lit **dim yellow**.

To select the Pad Hold method, press F2 to cycle through the options until Pad Hold appears in the button.

Now:	002 <mark>:04:467</mark>		Inserts: ON
Thre	Input: In 1,2 shold: -40dB	Channel: STEREO Time: 8:21	Monitor:ON Output:STEREO
Left			
Right			
	<u>0</u>		
Sampler	Pad Hold	Peak Fx	Record

To start recording to a pad, press and hold it. Recording will start immediately, and the pad will light red.

Note: If you start recording by pressing **F6/Record**—or if the volume exceeds the level of the **threshold slider**—the sample will record to your project's sample pool, not to a pad.

To stop recording, release the pad. The pad will light green, and the sample will continue recording. You can start recording on another pad at any time.

To stop recording, press F6/Stop.

When you are done recording, each pad that you have pressed during recording:

will have its Slice setting set to Pad;

will have its pad Start and End set to the slice's start point and end point values; and

will have its Loop position set to the slice's start point but with Pad Loop deactivated.

This is identical to how you can assign samples in Sample Edit Mode (as described in *Sample Edit Mode > Chop Mode > Converting or Assigning Slices*).

Tip: We recommend editing your recorded sample in Sample Edit Mode (see Sample Edit Mode for more information).

Looper

The Looper lets you record and overdub audio in real time—a great tool for live performance as well as spontaneous moments in the studio. You can export the loop as a sample to use in your project.

Important: The **Input**, **Channel**, **Monitor**, **Threshold**, and effects (**Fx**) are the same for both Sample Record Mode and the Looper. The **Input** and **Threshold** settings, however, are shown in Sample Record Mode only. See *Modes* > *Sample Record Mode* to learn how to use these settings.

To enter the Looper, press Shift+Sample Edit/Sample Rec to enter Sample Record Mode, and then press F1/Sampler to switch to the Looper.

Now: 002 : 01 : 024 Gain: 2dB					
Bans: 1	Senc: OFF	Rec To: PLAY	Monitor:OFF	Ch: STEREO	
° .					
Looper	Export	Revense P	lay Replac	e Overdub	

Use the **cursors** to select each field, and then use the **data dial** or -/+ buttons to change the parameter. If the field is a number, you can use the **numeric keypad** to enter a number and then press **Enter** to confirm it.

These are the buttons under the screen:

F1	Looper/Sampler	Press this button to switch between the Looper and Sample Record Mode.	
F2	F2 Export Press this button to export the contents of the Looper as a sample.		
F3	Reverse	Press this button to reverse the playback of the Looper.	
F4PlayPress this button to play the Looper.		Press this button to play the Looper.	
F5	Replace	Press this button to overwrite the contents of the Looper while recording.	
F6	Overdub	Press this button to keep the contents of the Looper while recording, essentially adding more layers to it.	
Shift+F5	Fx	Press these buttons to show and edit the Looper's insert effects.	
Shift+F6	Clear	Press this button to erase the contents of the Looper.	

Below is a brief step-by-step process so you can get started quickly. Continue reading the rest of this chapter to learn how to use the Looper in different cases.

To get started using the Looper:

- 1. Make sure to reduce the volume levels of your audio source and speakers/headphones/monitors before you make any connections to avoid "pops" or feedback.
- 2. Connect a synthesizer, audio player, etc. to the input/inputs of your MPC hardware or computer interface.
- 3. Turn the **Rec Gain** knob to set the input level while playing your audio source. You should now see the level in the meter. Make sure it does not exceed the maximum level (the meter should not be "peaking" constantly).
- 4. Set the recording controls as desired (described in this chapter).
- 5. Set Record To to Overdub.
- 6. Press **F6/Record** to start recording in the Looper.

7. Play your audio source. The Looper will start recording immediately when the input level reaches the threshold value. Alternatively, Press **F4/Play** to manually start recording.

Each time the Looper repeats, its contents are being overdubbed—a new layer of audio will be added each time you let the Looper repeat as it records.

Tip: You can record a loop while playing a sequence in the background for reference.

8. To stop recording, Pres F4/Play.

To export your loop as a sample, press F2/Export to show the Export Loop as Sample screen.

To clear the contents of the Looper, press Shift+F6/Clear.

Important: The **Input** and **Threshold** settings the same for both Sample Record Mode and the Looper, but they are shown in Sample Record Mode only. See *Modes* > *Sample Record Mode* to learn how to use these settings.

Now is the time counter at the top of the screen, which shows the current playhead position. See **General Features** > **Now & Locators** to learn about this.

Gain is the output signal level of the Looper.

To set the output signal level, use this field or turn Q-Link Knob 4 (MPC Renaissance) or the fourth Q-Link knob (MPC Studio).

Bars is the length of the loop in bars. Regardless of how much or how little audio you record, this is how long your loop will be.

To set the number of bars, use this field.

Sync determines whether or not the Looper is synchronized with sequence playback. When set to **ON**, the looper will stay in step with your current sequence. When you play or record into the Looper, it will wait until the sequence starts playing Bar 1 to start. When set to OFF, the looper will remain independent of any sequence playback.

To synchronize or un-synchronize the Looper with sequence playback, set this field to ON or OFF (respectively).

Rec To determines the recording behavior:

PLAY: Before recording, you must first press F4/Play, which will start playing the Looper.

OVERDUB: Before recording, you must first press **F6/Overdub** to record-arm the Looper.

Monitor determines whether or not input monitoring is on or off while using the Looper (and Sample Record Mode). When on, the audio you hear in your headphones will be taken **before** it reaches the Looper, ensuring zero latency. When off, the audio you hear in your headphones will be taken **after** it is processed in the Looper, so there may be some latency, but you will hear the audio source as it sounds in the recording.

To activate or deactivate input monitoring, set this field to ON or OFF (respectively).

Tip: To avoid possible clicks or feedback while input monitoring, reduce the level of the audio sources.

Ch determines which channel you will record from the source while using the Looper (and Sample Record Mode): the left channel only (**LEFT**), right channel only (**RIGHT**), or both channels (**STEREO**).

To set which channel is the source, use this field.

🔄 Now: 00	02 <mark>:01 :0</mark> 2	4		Gain: 2dB
Bans: 1	Senc: OFF	Rec To: PLAY	Monitor:OFF	Ch: STEREO
" [+{				
Looper	Export	Reverse P	lay Replace	e Overdub

The waveform display is a visual representation of the contents of the Looper.

The level meters on either side of the waveform display show the audio signal level at the beginning and end of the loop.

The icon next to the "in" level meter indicates whether the Looper is paused (Ⅱ), playing (►), or recording (●).

Fx shows any enabled or disabled effects for the Looper (and Sample Record Mode).

Important: These effects are applied to the audio as you record it. This means that the effects cannot be "removed" from the sound later. Learn more about how effects work in **General Features** > **Effects**.

To load, activate, deactivate, or edit the insert effects, press Shift+F5/Fx. Inserts 1–4 show the insert effects loaded to the Looper (and Sample Record Mode).

To load an effect, use its Insert field. Select an effect in the Select Effect screen that appears. Press F4/Select to load the selected effect or F3/Back to return to the previous screen.

To change the settings of a loaded effect, select its Insert field, and press Window. In the screen that appears, you can select and change each parameter (you can use the **numeric keypad** on some of them). Press **F4/Close** to return to the previous screen.

To activate or deactivate an effect, select its Insert field, and press Window. In the screen that appears, press F6/On/Off to activate or deactivate the effect. Press F4/Close to return to the previous screen.

To activate or deactivate all four insert effects, set the Inserts field to ON or OFF (respectively).

To return to the previous screen, press F4/Fx.

Peak allows you to reset the peak indicator when the input level meter has exceeded the maximum volume level.

To reset the peak indicator, press F3/Peak.



To record with the Looper:

Important:

To record without erasing any audio you've already recorded in the loop, press F6/Overdub.

To overwrite the audio you've already recorded, press F5/Replace.

If Rec To is set to PLAY:

To start recording, press F5/Replace or F6/Overdub as the loop is playing. The Looper will start recording immediately.

To stop recording, press F5/Replace or F6/Overdub again. The Looper will stop recording but continue playing.

To stop playback and recording, press F4/Play.

If **Rec To** is set to **OVERDUB**:

To start recording, press F4/Play.

If Sync is set to OFF, you can also play your audio source so that the input level reaches the threshold value.

If **Sync** is set to **ON**, you can also press the **Play** or **Play Start** button to start playing a sequence; recording will start when the sequence starts on Bar 1.

To stop recording, press F6/Overdub. The Looper will stop recording but continue playing.

To stop playback and recording, press F4/Play or press Stop to stop sequence playback.

To play or stop the loop (without recording), press F4/Play.

To reverse loop playback, press F3/Reverse. If Sync is set to ON, playback will reverse once the Looper's playhead reaches the end of the loop. If Sync is set to OFF, playback will reverse immediately.

To erase the contents of the Looper immediately, press Shift+F6/Clear.

	-					
	Name:					
	Prs: Program 001					
	Assig	n To Pad: A0	1			
	Root Note: C3					
Ċ	Save		Play	Cancel	Do It	Edit

To export the loop as a sample, press F2/Export to show the Export Loop as a Sample screen.

Name is the name of the new sample.

Prg is the program to which the sample will be assigned.

To assign the sample to a program, use this field. Select <none> to save it to the project without assigning it to a program.

Assign To Pad determines the pad (in the program shown in the Prg field) to which the sample will be assigned.

To assign the sample to a pad within the program, use this field or press the pad. Select **Off** to assign it to the program without assigning it to a pad.

Root Note is the root note of the sample. This determines which note will play the sample at its original pitch when in a keygroup program.

To set the root note, use this field.

F1/Save saves the loop.

F3/Play plays the loop.

F4/Cancel returns to the previous screen.

F5/Do It saves the recorded loop with the settings in this window and returns to the previous screen. When your loop is done exporting, it will be added to your project's sample pool and will be assigned to the program and pad you selected (if any).

F6/Edit opens Sample Edit Mode so you can edit the recorded loop (recommended, see Sample Edit Mode for more information).

Pad Mixer

In the **Pad Mixer**, you can set a program's levels, stereo panning, routing, and effects.

This mode appears differently for each type of program:

- For drum programs, this mode shows settings for each individual pad (of 128).
- For keygroup programs, this mode shows settings for each individual keygroup (up to 128).
- For **clip programs**, this mode shows settings for each individual clip.
- For **MIDI** programs, plugin programs, and **CV** programs, this mode is unavailable.

For more information on how these programs differ, please see General Features > Programs.

Important: The **Prog Mix** button on your MPC hardware corresponds to the **Pad Mixer** in the MPC software. This is due to the functionality changing as the software has evolved.

To enter the Pad Mixer, press Prog Mix.

Program: Drums		Trk: 00	1 -Drums		Program: Drums			Trk:001 -Drums			
A13: +	1.06dB A14:	-0.08dB	A15: 0.	.00dB A16:	0.00dB	A13:1 L	A14:	1 L	A15: 1 R	A16: 0	;
A09: -	1.04dB A10:	-4.98dB	A11: +1	74dB A12:	0.00dB	A09: C	A10:	С	A11: C	A12: 0	;
A05: +	3.08dB A06:	-2.62dB	A07: -2	35dB A08:	+2.06dB	A05:1 L	A06:	2 L	A07:1 R	A08: 0	;
A01: -	3.04dB A02:	-2.22dB	A03: -3	62dB A04:	-1.55dB	A01: C	A02:	С	A03:3 L	A04: 3	L
Level	Pan	Mute	Send	Insert	Route	Level	Pan	Mute	Send	Insert	Route

A13: A14: Muted A15: Muted A16: Muted A13: 11 A14: 23 A15: 22 A16: 0 A09: A10: A11: A12: A09: 4 A10: 0 A11: 100 A12: 0 A05: A06: A07: Muted A08: Muted A05: 18 A06: 18 A07: 2 A08: 62 A01: A03: A03: A04: A01: 36 A02: 41 A03: 21 A04: 53		Trk:001 -Drums		Program: Drums			Trk:001 -Drums				Program: Drums		
A05: A06: A07: Muted A08: Muted A05: 18 A06: 18 A07: 2 A08: 62		A16: 0	A15: 22	3	A14: 23	3:11	luted	A16: M	5: Muted		Muted	A14:	a13:
		A12:0	A11:100		A10: 0	39 : 4		A12:	1:	1		A10:	 109:
A01: A02: A03: A04: A01: 36 A02: 41 A03: 21 A04: 53		A08: 62	A07:2	8	A06:18	35:18	luted	A08: M	7: Muted			A06:	105:
		A04:53	A03:21	1	A02:41	31:36		A04:	3:	1		A02:	 901:
Level Pan Mute Send Insert Route Level Pan Mute Send Insert	Route			Mute	Pan	Level	Route			e ĺ	Mut	Pan	Level

🔄 Prosram: Drum	s	Trk: 001 – Dr	ums	🔄 Prosnam: Drur	ns	Trk:001 -Drums		
A13:	A14: AIR.essor	A15: AIR.ricEQ	A16:	A13:Out 3,4	A14: Sub 1	A15: Sub 1	A16: Sub 1	
A09:	A10:	A11:	A12:	A09: Sub 2	A10: Sub 2	A11: Program	A12: Program	
A05: Rev.Small	A06: Rev.Small	A07:	A08:	A05: Program	A06: Program	A07:Out 1,2	A08:Out 1,2	
A01: Dis.n Ame	A02:	A03:Dis.n Ame	A04:Dis.n Amp	A01: Program	A02: Program	A03: Program	A04: Program	
Level Pa	an Mute		ert Route	Level P	an Mute		sert Route	

The Pad Mixer works like an audio mixer with various settings for each pad, shown in a 4x4 array. All of their functionality is identical. The pad number is displayed in each field.

Use the **cursors** to select each field, and then use the **data dial** or -/+ buttons to change the parameter. If the field is a number, you can use the **numeric keypad** to enter a number and then press **Enter** to confirm it.

These are the buttons under the screen:

- **F1** Level Press this button to view the levels of the pads. See *Level* to learn more.
- F2 Pan Press this button to view the panning of the pads. See Pan to learn more.
- F3 Mute Press this button to view the mute status of the pads. See *Mute* to learn more.
- **F4 Send** Press this button to cycle through the four tabs of send effect levels of the pads. See **Send** to learn more.
- **F5** Insert Press this button to cycle through the four tabs of insert effects loaded to the pads. See *Insert* to learn more.
- F6 Route Press this button to view the routing of the pads. See *Route* to learn more.



To select a pad, press its corresponding pad. Alternatively, use the Pad field in the upper-left corner.

To view more pads, use the Pad Bank buttons.

To show the name of the sample assigned to each pad instead of the setting, press and hold Shift. The sample on the first layer of each pad will appear in place of the corresponding settings. Release Shift to return to the normal view.

Program is the program whose pads you are viewing and editing. Only one type of program will be available in this field at a time (e.g., if **Track** is set to a track using a drum program, **Program** can be set to a drum program only). Remember that only drum programs, keygroup programs, or clip programs will display properly in the Pad Mixer.

To select a program, use this field.

Track is the track whose program you are viewing and editing. This also determines the type of program you can select with the **Program** field (e.g., if **Track** is set to a track using a drum program, **Program** can be set to a drum program only).

To select a track, use this field.

To view each setting in all 16 fields, press the corresponding button (F1–F6) under the screen. You can press F4/Send or F5/Insert multiple times to cycle through the four available slots for each.

The following controls and tabs are available as indicated:

Level

When the Level tab is selected, the 16 fields show the volume level of each pad in dB.

To adjust the level of a pad, use its corresponding field or turn its corresponding Q-Link knob.

Pan

When the **Pan** tab is selected, the 16 fields show the panning (stereo placement) of each pad. **50 L** (left) to **50 R** (right). **C** indicates the center position.

To adjust the panning of a pad, use its corresponding field or turn its corresponding Q-Link knob. If you use the numeric keypad to change this number, use values from 0 to 100: 0 corresponds to 50 L, 50 corresponds to C, and 100 corresponds to 50 R.

Mute

When the Mute tab is selected, the 16 fields show the mute status of each pad.

To mute or unmute a pad, use its corresponding field or turn its corresponding Q-Link knob.

Send

When the **Send** tab is selected, the 16 fields show one of the four send levels of each pad: **0–100**. You can select up to **four send effects** for each pad. You can use various effects in the MPC software as well as other VST and AU plugins installed on your computer.

Important: To use a send effect, you have to load an effect into the corresponding send effect slot in the Channel Mixer. Please see *General Features > Effects > Send/Return Effects* to learn more about send effects.

To adjust the send level of a pad, use its corresponding field or turn its corresponding Q-Link knob.

To cycle through the four send effect levels, press F4/Send.





Insert

When the **Insert** tab is selected, the 16 fields show one of the four insert effects of each pad. You can select up to **four insert effects** for each pad. You can use various effects in the MPC software as well as other VST and AU plugins installed on your computer.

Important:

When using keygroup insert effects, they will be applied to that keygroup only. Keep this in mind if you load insert effects to multiple keygroups with overlapping note ranges—the effects will overlap in that range as well.

If a routing is set to anything other than **Program**, then a program insert effect will **not** be applied to that pad or keygroup.

Please see General Features > Effects > Insert Effects to learn more about insert effects.

To select an insert effect for a pad, use its corresponding field.

To cycle through the four insert effect slots, press F4/Send.

To load an effect, use its corresponding field. Select an effect in the **Select Effect** screen that appears. Press **F4/Select** to load the selected effect or **F3/Back** to return to the previous screen.

To change the settings of a loaded effect, select its **Insert** field, and press **Window**. In the screen that appears, you can select and change each parameter (you can use the **numeric keypad** on some of them). Press **F4/Close** to return to the previous screen.

To activate or deactivate an effect, turn its corresponding Q-Link knob. Alternatively, select its Insert field, and press Window. In the screen that appears, press F6/On/Off to activate or deactivate the effect. Press F4/Close to return to the previous screen.

Route

When the **Route** tab is selected, the 16 fields show the output of each pad: **Program**, Submix (**Sub**) 1–8, **Out 1,2–31,32**, or **Out 1–32**. Usually, this is set to **Program**.

Note: When set to a mono channel, the left and right channels are summed post-pan knob. If the pan knob is set to the center position, the left and right channels will be summed and padded. If the pan knob is set to the maximum left or right positions, only the respective channel will be sent to the output.

To select the output of a pad, use its corresponding field or turn its corresponding Q-Link knob.

Channel Mixer

In the **Channel Mixer**, you can set levels, stereo panning, and other settings for your MIDI and audio tracks, programs, returns, submixes, and master outputs.

This mode appears differently for each type of "channel": *MIDI Tracks* (Tracks), *Audio Tracks*, *Programs*, *Returns*, *Submixes*, and *Master Outputs* (Outputs).

Important: **Track Mix** (or **Shift+Prog Mix/Track Mix**) on your MPC hardware corresponds to the **Channel Mixer** in the MPC software. This is due to the functionality changing as the software has evolved.

To open the Channel Mixer, press Shift+Prog Mix/Track Mix.

🔤 Mixer: Tr	acks		Track: 1-16	🔄 Mixer: Au	dio Tracks		Au	dio Track: 1-	16
13: 98	14: 112	15:85	16: 127	13: -	14:	-	15: -	16: -	
9: 127	10:84	11:90	12:104	9: -	10:	-	11: -	12: -	
5: 126	6:120	7: 127	8:64	5:1 L	6: 1	R	7:C	8: -	
1:95	2: 88	3: 15	4: 127	1: C	2:0		3:4 L	4:4 R	
Level	Pan Mute			Level	Pan	Mute	Send	Insert R	oute
Mixer: Pro	ograms		Program: 1-16	🔄 Mixer: Re	turns			Return: 1-	16
13: -	14: -	15: -	16: -	13: -	14:	-	15: -	16: -	
9: -	10: -	11: -	12: -	9: -	10:	-	11: -	12: -	
5:70	6: 54	7:0	8:100	5: -	6:	-	7: -	8: -	
1:45	2: 85	3: 41	4: 23	1:	20		3: Muted	4: Mute	d
Level [Pan Mute	Send	Insert Route	Level	Pan	Mute		Insert R	oute
🔄 Mixer: Su	bmixes		Submix: 1-16	🔄 Mixer: Ou	teuts		Out	put Pairs: 1-	16
13: -	14: -	15: -	16: -	13: 0.0	00dB 14:	0.00dB	15: 0.00)dB 16: (.00dB
9: -	10: -	11: -	12: -	9: 0.1	00dB 10:	0.00dB	11: 0.00)dB 12: (.00dB
5: Rev.rs	e 2 6:	7: PEQB	and 8:	5: +0.1	04dB 6:	+0.04dB	7: +1.0	(dB 8: +)	.03dB
1: Com.nt	ase 2: AIR.everb	3:Dis.n	Amp 4: MPC3000	1: -1.	07dB 2:	-1.07dB	3: -0.58	3dB 4: -(.58dB
Level	Pan Mute	Send	Insert Route	Level	Pan	Mute		Insert _	

The Channel Mixer works like an audio mixer with various settings for each channel, shown in a 4x4 array. Their functionality is mostly identical. The name of the track, program, or channel is displayed at the top of each one.

Use the **cursors** to select each field, and then use the **data dial** or -/+ buttons to change the parameter. If the field is a number, you can use the **numeric keypad** to enter a number and then press **Enter** to confirm it.

These are the buttons under the screen:

- F1 Level Press this button to view the levels of the pads. See the description here to learn more.
- F2 Pan Press this button to view the panning of the pads. See the description *here* to learn more.
- **F3** Mute Press this button to view the mute status of the pads. See the description *here* to learn more.
- **F4 Send** Press this button to cycle through the four tabs of send effect levels of the pads. See the description *here* to learn more.
- **F5** Insert Press this button to cycle through the four tabs of insert effects loaded to the pads. See the description *here* to learn more.
- **F6 Route** Press this button to view the routing of the pads. See the description *here* to learn more.

Mixer is the type of channels whose settings you are viewing and editing: *MIDI Tracks* (Tracks), *Audio Tracks*, *Programs*, *Returns*, *Submixes*, and *Master Outputs* (Outputs). Each page has slight differences, described in each section of this chapter.

To select the type of channel, use this field.

The field in the upper-right corner determines the channels whose settings you are viewing and editing: **1–16**, **17–32**, etc. The name of the field varies depending on the type of channel. You cannot change this value for returns, submixes, or master outputs (pairs) because there are 16 or fewer of them.

To select the channels shown in the screen, use this field: Track (for MIDI tracks), Audio Track, Program, Return, Submix, or Output Pairs (for master outputs).

To view each setting in all 16 fields, press the corresponding button (F1–F6) under the screen. You can press F4/Send or F5/Insert multiple times to cycle through the four available slots for each.

To show the names or numbers of the channels instead of their settings, press and hold Shift. The track name, program name, return number, submix number, or master output numbers will appear in place of the corresponding settings. Release Shift to return to the normal view.

The following controls and tabs are available as indicated:

Level

When the **Level** tab is selected, the 16 fields show the velocity level (**0–127**) of MIDI tracks or the volume levels in **dB** of the audio tracks, programs (except for MIDI and CV programs), returns, submixes, or master outputs.

To adjust a level setting, use its corresponding field or turn its corresponding Q-Link knob.

Pan

When the **Pan** tab is selected, the 16 fields show the panning of the MIDI or audio tracks, programs (except for MIDI and CV programs), returns, submixes, or master outputs. **50 L** (left) to **50 R** (right). **C** indicates the center position.

To adjust a panning setting, use its corresponding field or turn its corresponding Q-Link knob. If you use the numeric keypad to change this number, use values from 0 to 100: 0 corresponds to 50 L, 50 corresponds to C, and 100 corresponds to 50 R.

Mute

When the **Mute** tab is selected, the 16 fields show the mute status of the MIDI or audio tracks, programs (except for MIDI and CV programs), returns, submixes, or master outputs.

To mute or unmute a channel, use its corresponding field or turn its corresponding Q-Link knob.

Send (audio tracks, programs, and submixes only)

When the **Send** tab is selected, the 16 fields show one of the four send levels of the audio tracks, programs (except for MIDI and CV programs), or submixes: **0–100**. You can select up to **four send effects** for each one. You can use various effects in the MPC software as well as other VST and AU plugins installed on your computer.

Important: To use a send effect, you have to load an effect into the corresponding send effect slot in the Channel Mixer. Please see **General Features** > **Effects** > **Send/Return Effects** to learn more about send effects.

To adjust a send level, use its corresponding field or turn its corresponding Q-Link knob.

To cycle through the four send effect levels, press F4/Send.



Insert (audio tracks, programs, returns, submixes, and master outputs only)

When the **Insert** tab is selected, the 16 fields show one of the four insert effects of the audio tracks, programs (except for MIDI and CV programs), returns, submixes, and master outputs. You can select up to **four insert effects** for each one. You can use various effects in the MPC software as well as other VST and AU plugins installed on your computer.

To select an insert effect, use its corresponding field.

To cycle through the four insert effect slots, press F4/Send.

To load an effect, use its corresponding field. Select an effect in the **Select Effect** screen that appears. Press **F4/Select** to load the selected effect or **F3/Back** to return to the previous screen.

To change the settings of a loaded effect, select its **Insert** field, and press **Window**. In the screen that appears, you can select and change each parameter (you can use the **numeric keypad** on some of them). Press **F4/Close** to return to the previous screen.

To activate or deactivate an effect, turn its corresponding Q-Link knob. Alternatively, select its Insert field, and press Window. In the screen that appears, press F6/On/Off to activate or deactivate the effect. Press F4/Close to return to the previous screen.

Please see **General Features** > **Effects** > **Insert Effects** to learn more about insert effects.

Route (audio tracks, programs, returns, and submixes only)

When the **Route** tab is selected, the 16 fields show the output of the audio tracks, programs (except for MIDI and CV programs), returns, and submixes: Submix (**Sub**) **1–8** (for audio tracks and programs), **Out 1,2–31,32**, or **Out 1–32**.

Note: When set to a mono channel, the left and right channels are summed post-pan knob. If the pan knob is set to the center position, the left and right channels will be summed and padded. If the pan knob is set to the maximum left or right positions, only the respective channel will be sent to the output.

To select the output for a channel, use its corresponding field or turn its corresponding Q-Link knob.

MIDI Tracks

The MIDI Track Mixer shows levels, panning, and mute states for all used tracks.

To view a specific setting on all tracks, press F1/Level, F2/Pan, or F3/Mute.

- Mixer: Tr	acks			Track: 1-16
13:98	14:	112	15: 85	16: 127
9: 127	10:	84	11:90	12:104
5: 126	6:	120	7: 127	8: 64
1:95	2:	88	3: 15	4: 127
Level 🗍	Pan	Mute		

🔄 Mixer: Tra	icks			Track: 1-16
13:0	14:	C	15:1 L	16:2 R
9:3 L	10	3 R	11:C	12: C
5: C	6	C	7:1 R	8:1 L
1: C	2:	C	3:1 L	4:1 R
Level	Pan	Mute		

🔄 Mixer: Tr	hacks				Track: 1-16
13:		14:		15:	16:
9: Muted		10:1	luted	11:	12:
5:		6:		7: Muted	8: Muted
1:		2:		3:	4: Muted
Level Pa		n Mute			

Audio Tracks

The Audio Track Mixer shows levels, mute states, send and insert effects, and routing for all used tracks.

To view a specific setting on all tracks, press F1/Level, F2/Pan, F3/Mute, F4/Send, F5/Insert, or F6/Route. Press F4/Send or F5/Insert to cycle through the four send effect levels or insert effect slots (respectively).

🔄 Mixer: 🖪	udio 1	Fnack:	s			Audio	Thack	1=16
13:	-	14:	-	15:		-	16:	-
9:	-	10:	-	11:		-	12:	-
5: +0	.36dB	6:	-3.29dB	7:	+2.	00dB	8:	-
1: -4	.92dB	2:	-0.03dB	3:	-1.	00dB	4:	-2.70dB
Level	Pa	n j	Mute	Sen		Ins		Route

🔄 Mixer: 🗛	udio (Thack	s	í.	Audio Trac	k: 1-16
13: -		14:	-	15: -	16:	_
9: -		10:	-	11: -	12:	-
5:1 L		6:	1 R	7:C	8:	-
1: C		2 : C		3:4 L	4:	4 R
Level	Pa	an Mute		Send	Insert	Route

🔄 Mixer: A	udio (Thack:	5		Audio Tra	ack: 1-16
13: -		14:	-	15: -	16	;: -
9: -		10:	-	11: -	12	2: -
5: Muted		6: 1	Muted	7:	8	3: -
1:		2:		3:	4	: Muted
Level	Pa	in j	Mute	Send	Insert	Route

🔄 Mixer: A	udio 1	Fnack	S		Audio	Thack	1=16
13: -		14:	-	15: -		16:	_
9: -		10:	-	11: -		12:	-
5:60		6:	50	7:100		8:	-
1:28		2:	23	3:0		4: 1	17
Level	Pa	n j	Mute	Send		ert	Route
						nn	

🔄 Mixer: 🖪	udio	Thack	s		Audio	Thac	k: 1-16
13: -		14:	-	15: -		16:	_
9: -		10:	-	11: -		12:	-
5: Rev.Small		6:		7:Dis.	n Ame	8:	-
1: AIR.everb		2:Rev.edium		3: MPC3000		4:	
Level	Level Pan		Mute			ert	Route

🔄 Mixer: Audio	Tracks		Audio	Thack	: 1-16
13: -	14: -	15: -	-	16:	—
9: -	10: -	11: -	-	12:	-
5: Sub 1	6: Sub	2 7: Out	. 1,2	8:	-
1:Out 1,2	2: Out	1,2 3: Out	3	4: 0	ut 4
Level P	an 🚺 M	lute Send		ert	Route



Programs

The Pad Mixer shows levels, panning, mute states, send and insert effects, and routing for all programs except for MIDI programs and CV programs.

To view a specific setting on all programs, press F1/Level, F2/Pan, F3/Mute, F4/Send, F5/Insert, or F6/Route. Press F4/Send or F5/Insert to cycle through the four send effect levels or insert effect slots (respectively).

🔄 Mixer: P	nognar	ns				Pr	rognar	n: 1-16
13: -5	.20dB	14:	+2.29dB	15:	+1.	01dB	16:	+0.03dB
9: +0	.13dB	10:	-0.12dB	11:	0.	00dB	12:	-0.61dB
5: -2	.25dB	6:	-0.52dB	7:	-0.	66dB	8:	+2.01dB
1: -0	.76dB	2:	0.00dB	3:	+2.	83dB	4:	-0.19dB
Level	Pa	n j	Mute	Sen		Ins		Route

Mixer: Pr	rognar	ns			P	rognar	n: 1-16
13: C		14:	C	15:1 L		16: 3	2 R
9:3 L		10:	3 R	11:C		12: (2
5: C		6:	С	7:1 R		8:	1 L
1: C		2:	С	3:1 L		4:	1 R
Level	Pa	n	Mute	Send		ert j	Route

🔄 Mixer: P	rognal	ns			P	rognai	n: 1-16
13: -		14:	-	15: -		16:	-
9:		10: 1	Muted	11: Muted		12:	
5: Muted		6:		7:		8:1	luted
1:		2:		3:		4:1	luted
Level	Pa	in j	Mute	Send		ert j	Route

	ograms			Progra	m: 1-16
13: -	14:	-	15: -	16:	-
9: -	10:	-	11: -	12:	-
5:70	6: 1	54	7:0	8:	100
1:45	2: :	85	3:41	4:	23
Level	Pan	Mute	Send	Insert	Route

13: Autopan14: Del. Sync15: MPC300016: -9: Rev.edium10: Pha. Sync11: Com. Opto12: MPC605: Cho.voice6: -7:8: LP Filter1: Dis.n Amp2: Dis.ustom3: Rev.edium4:LevelPanMuteSendInsertRoute	🔄 Mixer: P	rognar	ns			P	rogna	m: 1-16
5:Cho.voice 6: - 7: 8:LP Filter 1:Dis.n Amp 2:Dis.ustom 3:Rev.edium 4:	13: Autor	an	14:	Del. Sync	15: MPC30	90	16:	-
1: Dis.n Amp 2: Dis.ustom 3: Rev.edium 4:	9: Rev.e	dium	10:	Pha. Sync	11: Com.	Deto	12:	MPC60
	5: Cho.v	oice	6:	-	7:		8:	LP Filter
Level Pan Mute Send Insert Route	1:Dis.n	AMP	2:	Dis.ustom	3: Rev.e	dium	4:	
	Level	Pa	n j	Mute	Send	Ins	ert	Route

🔄 Mixer: P	nognar	ns			P	rognar	n: 1-16
13:Out 3	, 4	14:	Out 3,4	15:Out 3	, 4	16:	_
9: Sub 3		10:	Sub 4	11:Out 3		12:0	Dut 4
5: Sub 1		6:	-	7:Sub 1		8: 9	5ub 2
1:Out 1	,2	2:	Out 1,2	3:Out 1	,2	4: (Dut 1,2
Level	Pa	n	Mute	Send		ert	Route



Returns

Pads, programs, and audio tracks can each be sent to up to four send channels. Their audio signals will be routed to the send channels at their designated send levels. After being processed by the effects on those channels, their signals are then sent to the assigned master output based on their return settings (levels, panning, etc.). This view displays the four return channels. The return mixer shows levels, panning, mute states, insert effects, and routing for all used tracks.

To view a specific setting on all returns, press F1/Level, F2/Pan, F3/Mute, F5/Insert, or F6/Route. Press F5/Insert to cycle through the four insert effect slots.

🔄 Mixer: 🛛	eturns	5				Returi	n: 1-16
13:	_	14:	-	15:	-	16:	—
9:	-	10:	-	11:	-	12:	-
5:	-	6:	-	7:	-	8:	-
1: -1	.82dB	2:	+3.39dB	3:	0.00dB	4:	+0.09dB
Level	Pa	n j	Mute			ert	Route

🔄 Mixer: Ret	turns			Retur	n: 1–16
13:	- 14		15:	- 16:	-
9:	- 10	-	11:	- 12:	-
5:	- 6	-	7:	- 8:	-
1: C	2	С	3:4 L	4:	4 R
Level	Pan	Mute		Insert	Route

13: - 14: - 15: - 16: - 9: - 10: - 11: - 12: - 5: - 6: - 7: - 8: - 1: 2: 3: Muted 4: Muted	🔄 Mixer: 🛛	eturns			Returi	n: 1-16
5: - 6: - 7: - 8: - 1: 2: 3: Muted 4: Muted	13: -	14:	-	15: -	16:	—
1: 2: 3: Muted 4: Muted	9: -	10:	-	11: -	12:	-
	5: -	6:	-	7: -	8:	-
Level Device Device Device	1:	2:		3: Muted	4:	Muted
Level Pan Mute Insert Route	Level	Pan	Mute		Insert	Route

🔄 Mixer: R	eturn:	5				Retur	n: 1–16
13: -		14:	-	15: -		16:	-
9: -		10:	-	11: -		12:	-
5: -		6:	-	7: -		8:	-
1: Rev. 9	mall	2:	Rev.edium	3: AIR.es	sor	4:	MPC3000
Level	Pa	n j	Mute		Ins	ert	Route

<mark>Mixer:</mark> Return:	5	F	leturn: 1–16
13: -	14: -	15: -	16: -
9: -	10: -	11: -	12: -
5: -	6: -	7: -	8: -
1:Out 1,2	2:Out 1,2	3:Out 3	4:Out 4
Level Pa	n Mute	Ins	

Submixes

The Submixer shows levels, panning, mute states, send and insert effects, and routing for the eight available submixes.

To view a specific setting on all submixes, press F1/Level, F2/Pan, F3/Mute, F4/Send, F5/Insert, or F6/Route. Press F4/Send or F5/Insert to cycle through the four send effect levels or insert effect slots (respectively).

Mixer:S	ubmixe	es -				S	ubmi:	<: 1-16
13:	_	14:	_	15:		-	16:	_
9:	-	10:	-	11:		-	12:	-
5: -1	.52dB	6:	-2.98dB	7:	0.	00dB	8:	+0.98dB
1: -2	.47dB	2:	+0.75dB	3:	-0.	99dB	4:	-1.40dB
Level	Pa	n j	Mute	Send	_	Inse		Route

📃 Mixer: S	ubmix	es			5ubmi:	x: 1-16
13: -		14:	-	15: -	16:	-
9: -		10:	-	11: -	12:	-
5:4 L		6:	4 R	7 : C	 8: (C
1: C		2:	С	3:1 L	4:	1 R
Level	Pa	in	Mute	Send	ert	Route

🔄 Mixer: S	ubmix	es			Su	ubmi>	4 1-16
13: -		14:	-	15: -		16:	-
9: -		10:	-	11: -		12:	-
5: Muted		6:1	luted	7:		8:	
1:		2:		3:		4:1	luted
Level	Pa	in 🚽	Mute	Send	Inse		Route

13: - 14 9: - 19 5: 57 6		15: - 11: -	16: - 12: -
	: -	11: -	12: -
5+57 2			
3.3.	:0	7:21	8:0
1:60 2	: 47	3: 33	4:55
Level Pan	Mute	Send	Insert Route

🔄 Mixer: S	ubmix	es				Submi	x: 1-16
13: -		14:	-	15: -		16:	-
9: -		10:	-	11: -		12:	-
5: Rev.r	e 2	6:		7: PEQ	Band	8:	
1: Com.r	ntase	2:	AIR.everb	3:Dis.n	Ame	4:	MPC3000
Level	Pa	in j	Mute	Send	Ins	ert	Route

🔄 Mixer: S	ubmix	es		Submix: 1-16			
13: -		14:	-	15: -		16:	_
9: -	10: -		-	11: -		12: -	
5:Out 3	5,4	6:	Out 3,4	7:Out 5	6	8: (Dut 7,8
1:Out 1	1: Out 1,2 2: Out 1		Out 1,2	3:Out 3		4: (Dut 4
Level	Pa	in .	Mute	Send		ert j	Route

Master Outputs

The Master Mixer shows levels, panning, mute states, and insert effects for all stereo pairs of outputs: Out 1,2-31,32.

To view a specific setting on all master outputs, press F1/Level, F2/Pan, F3/Mute, F5/Insert, or F6/Route. Press F5/Insert to cycle through the four insert effect slots.

🔄 Mixer:	Outputs				Output	Pair	s: 1-16
13: 0	0.00dB	14:	0.00dB	15:	0.00dB	16:	0.00dB
9: (0.00dB	10:	0.00dB	11:	0.00dB	12:	0.00dB
5: +0	0.04dB	6:	+0.04dB	7:	+1.03dB	8:	+1.03dB
1: -:	.07dB	2:	-1.07dB	3:	-0.58dB	4:	-0.58dB
Level	Pa	n	Mute		Ins		

🔄 Mixer: Ou	Mixer:Outputs				teut Pairs:	1-16
13: C		14: C		15:8 L	16: 10) R
9:1 L		10:1 L		11:1 R	12 : C	
5:6 L		6:6 R		7: C	8: C	
1: C	1:0 2:0		2	3:2L 4		R
Level	Pa	n 🗍	Mute	Insert		

🔄 Mixer: Ou	tput:	5		Output Pairs: 1-16			
13: Muted		14:		15: Muted	16:	16:	
9:		10:		11: Muted	12: M	12: Muted	
5: Muted	5: Muted 6: Muted		1uted	7: 8:			
1:		2:		3:	4:		
Level	Pa	n Mute		Insert			

📃 Mixer: Outpu	s	Out	Output Pairs: 1-16			
13: Rev.Small	14:	15:Dis.ust	tom 16:PEQ.Shelf			
9:	10: PEQE	and 11:	12:			
5:	6:	7: MPC60	8: MPC3000			
1: Com.aster	2: Rev. ed	lium 3:Rev.rs	e 2 4:AIR.essor			
Level F	an 📘 Mut	,e	Insert			

Pad Mute Mode

Pad Mute Mode lets you easily mute pads on a single track with a drum program or clip program—by simply pressing them on your MPC hardware. This function is similar to muting pads in the Pad Mixer but more convenient. You can also set groups for each pad, enabling you to mute multiple pads at once. This is useful if you want to hear a track without a particular sound or if you want to isolate specific sounds or combinations of sounds.

To enter Pad Mute Mode, press Shift+Track Mute/Pad Mute.

Now: 001 : 01	:00	Program: Drums			
SnrSm112	SnrSm113	EXCESSIVE C1	REVOLUTION C1		
1980Crash	1980RideA	1980RideB	Glass		
1980HatCl	1980HatOp	Side11	Side12		
1980Kick1	1984Kick	SnrSmll1	1980Snare		
PadMute PadG	roup	Time Div T.	c.		

Use the **cursors** to select each field at the top of the screen, and then use the **data dial** or -/+ buttons to change the parameter. If the field is a number, you can use the **numeric keypad** to enter a number and then press **Enter** to confirm it.

These are the buttons under the screen:

- F1 PadMute Press this button to view the PadMute tab.
- F2 PadGroup Press this button to view the PadGroup tab.
- F4 Time Div Press this button to open the Timing Correct screen.
- **F5 T.C.** This button indicates whether or not Timing Correct is on. Pressing it does not perform any function.

Now is the time counter at the top of the screen, which shows the current playhead position. See **General Features** > **Now & Locators** to learn about this.

Program is the program whose pads you are viewing. Only one type of program will be available in this field at a time (e.g., if your currently selected track uses a drum program, **Program** can be set to a drum program only). Remember that only drum programs, keygroup programs, or clip programs will display properly in Pad Mute Mode.

To select a program, use this field.

The pads are shown in a 4x4 array with the names of their assigned samples. Unused pads do not show any sample names and cannot be muted.

To mute a pad, press it on your MPC hardware. Muted pads are blue in the screen and red on your MPC hardware. Unmuted pads are white in the screen and yellow on your MPC hardware.

Important: Unused pads do not show any sample names and cannot be muted.

To view more pads, use the Pad Bank buttons.

Now: 001 : 01	:00	Program: Drums			
off	Group 1	off	off		
Group 4	Group 3	off	Group 2		
off	off	Group 2	Group 4		
Group 3	Group 1	Group 3	Group 4		
PadMute PadG	roup	Time Div T.	.c.		

The pad group feature extends the concept of pad mutes: you can mute or unmute multiple pads (on a single track) by pressing one pad that you have assigned to a pad group. You can create up to 16 different pad groups.

To select a pad to add to a group, press it on your MPC hardware. The selected pad is white in the screen and green on your MPC hardware. If there are other pads in the same group, they will flash yellow on your MPC hardware.

To assign the selected pad to a group, use the data dial or -/+ buttons. Alternatively, turn the Q-Link knobs to assign their corresponding pads to groups.

Time Div opens the Timing Correct screen, which lets you quantize pad mutes, synchronizing them with a specific time division: Off, 1/16th, 1/8th, 1/4, 1 bar, or 2 bar (a (3) indicates a triplet-based value). For example, with **Note Value** set to 1 Bar, your mutes will always occur at the beginning of the measure immediately after you press the pad.

Note: The Timing Correct screen in other modes perform a similar function but show additional settings. See *General Features* > *Timing Correct/T.C.* to learn about this.

To open the Timing Correct settings, press F4/Time Div.

To set the quantization of the pad mutes, use the Note Value field.

To return to the previous screen, press F4/Close. The F4/T.C. button will be lit when Timing Correct is on or unlit when Timing Correct is off.

Track Mute Mode

Track Mute Mode lets you easily mute tracks within a sequence—by simply pressing them on your MPC hardware. This function is similar to muting tracks in the Channel Mixer but more convenient. You can also set groups for each track, enabling you to mute multiple tracks at once. This is useful if you want to hear a sequence without a particular track (e.g., muting your keyboard track to focus on the bass) or if you want to isolate specific sounds or combinations of sounds that are separated by track.

To enter Track Mute Mode, press Track Mute.

🔄 Now: 001 : 01	:00	Seq:001 Sequence 01			
(unused)	(unused)	(unused)	(unused)		
CV	Electro	Track 11	(unused)		
Hybrid	Percussion	Clips	Timbre Wolf		
Drums	Bass	Keys	Keys 2		
TrkMute TrkG	noup	Time Div T.	C. Solo		

Use the **cursors** to select each field at the top of the screen, and then use the **data dial** or -/+ buttons to change the parameter. If the field is a number, you can use the **numeric keypad** to enter a number and then press **Enter** to confirm it.

These are the buttons under the screen:

- F1 TrkMute Press this button to view the PadMute tab.
- **F2 TrkGroup** Press this button to view the **PadGroup** tab.
- F4 Time Div Press this button to open the Timing Correct screen.
- **F5 T.C.** This button indicates whether or not Timing Correct is on. Pressing it does not perform any function.
- **F6 Solo** Press and hold this button, and then press one or more pads to solo them rather than mute them.

Now is the time counter at the top of the screen, which shows the current playhead position. See **General Features** > **Now & Locators** to learn about this.

Seq is the sequence whose tracks you are viewing.

To select a program, use this field.

The tracks are represented by the 16 pads in a 4x4 array with their names. Unused tracks show (**unused**) and cannot be muted.

To mute a track, press its corresponding pad on your MPC hardware. Pads with muted tracks are blue in the screen and red on your MPC hardware. Pads with unmuted tracks are white in the screen and yellow on your MPC hardware.

To view more tracks, use the Pad Bank buttons.

🔄 Now: 001 : 01	Now: 001 : 01 : 00 Seq: 001 Sequence 01					
off	off	off	off			
Group 3	off	Group 3	off			
Group 2	Group 2	Group 2	Group 3			
Group 1	Group 1	Group 1	off			
TrkMute Trk(inoup	Time Div T.	.C. Solo			

The track group feature extends the concept of track mutes: you can mute or unmute multiple tracks (in a single sequence) by pressing one pad whose track you have assigned to that track group. You can create up to 16 different track groups.

To select a track to add to a group, press the corresponding pad on your MPC hardware. The selected pad is white in the screen and green on your MPC hardware. If there are other tracks in the same group, their pads will flash **yellow** on your MPC hardware.

To assign the selected track to a group, use the data dial or -/+ buttons. Alternatively, turn the Q-Link knobs to assign the tracks on their corresponding pads to groups.

Time Div opens the Timing Correct screen, which lets you quantize track mutes, synchronizing them with a specific time division: **Off**, **1/16th**, **1/8th**, **1/4**, **1 bar**, or **2 bar** (a (**3**) indicates a triplet-based value). For example, with **Note Value** set to **1 Bar**, your mutes will always occur at the beginning of the measure immediately after you press the pad.

Note: The Timing Correct screen in other modes perform a similar function but show additional settings. See *General Features* > *Timing Correct/T.C.* to learn about this.

To open the Timing Correct settings, press F4/Time Div.

To set the quantization of the track mutes, use the Note Value field.

To return to the previous screen, press F4/Close. The F4/T.C. button will be lit when Timing Correct is on or unlit when Timing Correct is off.

Solo lets you solo pads rather than mute them.

To solo one or more pads, press and hold F6/Solo, and then press one or more pads to solo or un-solo them.

Next Sequence Mode

Next Sequence Mode lets you trigger different sequences simply by playing the pads. This is useful during live performances when you may want to change a song's structure in real time.

To enter Next Sequence Mode, press Next Seq.

🔄 Now: 001 : 01	:00	Seq:001 Intro			
Break 2	Sequence 14	(unused)	Sequence 16		
Fill 1	Fill 2	Fill 3	Break 1		
Verse 2A	Chorus 2	Bridge 1	Bridge 2		
Intro	Verse 1	Verse 2	Chorus 1		
To Sons	Next Bar	Sudden Ho	ld Clear		

These are the buttons under the screen:

F1 To Song Press this button to open the Copy to Song screen.

F3 Next Bar Press this button to switch to the selected sequence at the beginning of the next bar.

F4 Sudden Press this button to switch to the selected sequence immediately.

- **F5 Hold** Press this button to repeat the currently paying sequence indefinitely and temporarily ignore other pad presses.
- **F6** Clear Press this button to delete the currently selected sequence from the sequence playlist.

Now is the time counter at the top of the screen, which shows the current playhead position. See **General Features** > **Now & Locators** to learn about this.

Seq is the sequence that is currently playing.

To select a sequence, press its corresponding pad.

The sequences are represented by the 16 pads in a 4x4 array with their names. Unused sequences show (**unused**) but can still be selected and played.

To select a sequence, press its corresponding pad on your MPC hardware. The pad for the currently playing sequence is **white** in the screen and **green** on your MPC hardware.

To view more sequences, use the Pad Bank buttons.

During playback, change the next sequence that will play by pressing the corresponding pad. If you do not select another sequence, the current sequence will repeat indefinitely. As a sequence plays, you can use the **F3–F6** buttons under the screen to change how playback works.

To start playback, press Play or Play Start.

To stop playback, press Stop.

The **Next Bar** function causes the next sequence to play only after the current bar is done playing. This is useful for switching to another sequence before the current one ends without worrying about timing issues.

To activate the Next Bar function, press and hold F3/Next Bar. Release the button to deactivate it.



The **Sudden** function causes the new sequence to start playing whether or not the current sequence is done. This is useful in live performances for switching to the next sequence instantly at a certain cue.

To activate the Sudden function, press and hold F4/Sudden. Release the button to deactivate it.

The **Hold** function causes the currently playing sequence to repeat indefinitely and temporarily ignore other pad presses. This is useful if you want to select other pads without selecting them to play next.

To activate the Hold function, press F5/Hold. Press it again to deactivate it.

All of the sequences that have played are stored in a playlist in the MPC software (with their number of repetitions and tempos as well as the precise order in which they were played). You can send this playlist to Song Mode in order to export it to a finished song, or you can clear it and start a new performance.

To cancel the sequence that will play next, press F6/Clear. This will delete the next sequence from the sequence playlist. The current sequence will continue playing or you can click or press a pad to select another sequence to play next. This option is available only if that sequence is not playing at that moment.

To copy the sequence playlist to a song, press F1/To Song while playback is stopped. In the Copy to Song screen that appears, use the Copy to Song field to select a song, and then press F5/Do It to continue or F4/Cancel to return to the previous screen. Please see Song Mode to learn more about exporting a song.

Song Mode

Song Mode lets you arrange sequences in a specific order with specified repetitions to create complete songs. You can edit the structure of a song during playback for easy, on-the-fly composing.

A project can contain up to 32 songs, each consisting of up to 999 "steps." Each step can have an assigned sequence as well as the number of times that sequence will repeat.

To open Song Mode, press Song.

Important: If a sequence is currently playing, stop playback before entering Song Mode. You cannot enter Song Mode during playback.

Important: When creating a song, the program used by each track in the song's **first sequence** will be used by **all subsequent tracks**. In other words, all identically numbered tracks (across sequences) will use the program used by the first sequence in the song—regardless of what programs each track uses while not in Song Mode.

For example, if you create a project in this way...:

Track 1 of Sequence 1 uses a drum program.

Track 1 of Sequence 2 uses a keygroup program.

A song uses Sequence 1 as its first sequence and then uses Sequence 2 any time after it.

...then, in that song, Track 1 in Sequence 2 will use the same drum program as Track 1, Sequence 1.

Because of this, we recommend trying to be consistent while creating tracks in sequences that you intend to use in a single song. Remember that you can copy one track to another if you ever need to reorder the tracks of a sequence (see *General Features* > *Edit Sequence* to learn about this).

Not	ə: 001 : 02 : 33 👘	126.00 <u>se</u> 9	Sons: 01	-MPC Pro	ject 1 👘
Step	Sequenc	e	Rets	BPM	Bars
>1	1:Intro		1	126.00	2
2	2:Verse 1		2	126.00	2
3	3:Chorus 1		2	126.00	2
4	4:Verse 2		1	126.00	2
Clea	an Sudden N	lext Con	vert D	elete	Insert

These are the buttons under the screen:

- **F1** Clear Press this button to clear all steps and sequences from the list immediately.
- **F2** Sudden During playback, press this button to switch to the next sequence at the beginning of the next bar.
- F3 Next During playback, press this button to switch to the next sequence immediately.
- F4 Convert Press this button to open the Convert Song screen.
- **F5 Delete** Press this button to delete the currently selected sequence from the sequence playlist.
- **F6** Insert Press this button to insert a step in the sequence playlist immediately after the currently selected step.

Now is the time counter at the top of the screen, which shows the current playhead position. See *General Features* > *Now & Locators* to learn about this.

The **BPM** next to **seq/mst** at the top of the screen is the current tempo.

When set to **seq**, the number is the tempo of the currently selected sequence.

When set to **mst**, the number is the master tempo.

To set the tempo, use the BPM field or press Tap Tempo in time with the desired tempo.

To set whether the sequence follows its own tempo (seq) or a master tempo (mst), use the seq/mst selector or press Shift+Tap Tempo.

Song is the current song number and its name.

To select a sequence, use this field.

Bars is the length of the sequence in bars.

To set the number of bars, use this field.

The sequence playlist lists of the "steps" of a song:

Step is the step number (each song can contain up to 999 steps)

To insert a step, press F6/Insert.

To delete a step, press F5/Delete.

Sequence is the number and name of the sequence used in that step.

To change the sequence of the selected step, use this field.

Rpts is the number of times the sequence plays. Each step can play up to 999 times. To set the sequence to repeat indefinitely until you stop playback, set it to **Hold** (the lowest/minimum value).

To change the number of repetitions, use this field.

BPM is the tempo of the sequence.

Bars is the number of bars in the sequence (ignoring the number of repetitions).

Clear immediately erases all steps and sequences from the list.

To clear the song, press F1/Clear.

Convert opens the Convert Song screen where you can export the song as a sequence within your project.

To convert your song into a sequence, press F4/Convert. Use the fields in the Convert Song screen that appears:

- Sequence is the sequence to which your song will be exported.
- Muted Tracks determines if the exported song will include any tracks that are currently muted (INCLUDE MUTED TRACKS) or exclude them (IGNORE MUTED TRACKS).
- **F4/Cancel** returns to the previous screen without exporting the song.
- F5/Do It exports the song to the sequence and returns to the previous screen.

 Convert Sons	
Sequence: 16: (unused)	
Muted Tracks: INCLUDE MUTED TRACKS	
 Cancel Do It	
 Cancel Do It	

Delete immediately erases the currently selected sequence from the sequence playlist.

To delete a step, press F5/Delete.

Insert creates a step in the sequence playlist immediately after the currently selected step.

To insert a step, press F6/Insert.

Alternatively, "record" a song using the pads:

Note: The sequences or song will not play back as you use the pads to create your song in this way. Pressing the pads just enters their corresponding sequences as steps.

- 1. Press Rec or Overdub to "record-arm" the song.
- 2. Press the **pad** that corresponds to the first sequence you want to use. That sequence will appear in the sequence playlist as the first step.
- Repeat Step 2 for each additional step you want to add to the sequence playlist. Press a pad multiple times to add to the number of times it plays.
- 4. Press Stop to stop "recording."

To render/export your song as an audio file, use the Audio Mixdown screen in the software window. To see the user guide in the MPC software and learn how to do this, click the Help menu, select MPC Help, and select MPC User Manual.

MPr

Q-Link Edit Mode

Q-Link Edit Mode lets you determine what the Q-Link knobs control in other modes. This is helpful when you want to use the Q-Link knobs to control parameters that might not be shown in the current mode—or parameters that are shown across different modes.

To enter Q-Link Edit Mode, press Shift+Prog Edit/Q-Link.

SEQUE.E T	EMPO	SEQUE.	LENGTH	SEQUE.	P STAR	T SEQUI	E.OOP END
CURRENT T	RACK	TRACK	LENGTH	TRACK.	ELOCIT	Y TRACI	K.ANSPOSE
PROGRAM L	EVEL	PROGRE	M PAN	METRO.	ENABL	E METR	O.E LEVEL
TIME CORR							. TRENGTH
Project	Phos	inam 📕	ad Scene	Pad Pa	nam <mark>,</mark> s	Screen	Paramete

126.0 bem	2 BARS	Bar: 1	Bant 2
TRACK: 1	SEQ	100	Off
-0.76dB	1R	Record	-1.48dB
1/16	50	0	100
Project	Program Pad	Scene Pad Param	Screen Value

These are the buttons under the screen:

F1	Project	Press this button to select the Project Q-Link Edit mode. See the following <i>Project</i> section to learn about this.
F2	Program	Press this button to select the Program Q-Link Edit mode. See the following <i>Program</i> section to learn about this.
F3	Pad Scene	Press this button to select the Pad Scene Q-Link Edit mode. See the following Pad Scene section to learn about this.
F4	Pad Param	Press this button to select the Pad Parameter Q-Link Edit mode. See the following Pad Parameter section to learn about this.
F5	Screen	Press this button to select the Screen Q-Link Edit mode. See the following Screen section to learn about this.
F6	Parameter/Value	Press this button to switch between viewing the parameter names (Parameter) and values (Value) in the screen.

While in Q-Link Edit Mode:

To adjust the settings shown on-screen, turn the corresponding Q-Link knobs.

To select an edit mode for the Q-Link knobs, press the corresponding button (F1–F5) under the screen. See *below* for more information.

To switch between viewing the parameter names and values in the screen, press F6/Parameter/Value.



To select an edit mode for the Q-Link knobs, press the corresponding button (F1–F5) under the screen:

Project: In this edit mode, the Q-Link knobs can control 16 parameters within the current project overall. See the following *Project* section to learn about this specific Q-Link Edit Mode.

Program: In this edit mode, the Q-Link knobs can control 16 program or audio track parameters. See the following *Program* section to learn about this specific Q-Link Edit Mode.

Pad Scene (for drum programs only): In this edit mode, the Q-Link knobs can control 16 parameters for the currently selected pad. See the following *Pad Scene* section to learn about this specific Q-Link Edit Mode.

Pad Parameter: In this edit mode, the 16 Q-Link knobs correspond to the 16 pads, each one controlling the same parameter for each pad. This is useful if you need to adjust the same parameter on multiple pads at once rather than having to select and edit each pad individually. See the following *Pad Parameter* section to learn about this specific Q-Link Edit Mode.

Screen: In this edit mode, the Q-Link knobs will control a parameter or group of parameters in your currently selected mode (e.g., Main Mode, Sample Edit Mode, etc.).

Project

In the **Project** Q-Link Edit Mode, the Q-Link knobs control 16 parameters within the current project.

OFF	OFF		OFF	OFF	
MUTE	MUTE		MUTE	MUTE	
PAN	PAN		PAN	PAN	
VOLUME	VOLU	1E	VOLUME	VOLU	ЧE
Project	Program	Pad Sce	ene <mark> </mark> Pad Param	Screen	Parameter

You can customize the parameters shown in this mode by using the **Q-Link Setup** section in MPC software window. To see the user guide in the MPC software and learn how to do this, click the **Help** menu, select **MPC Help**, and select **MPC User Manual**.

Program

In the **Program** Q-Link Edit Mode, the Q-Link knobs control 16 parameters within the currently selected program or audio track.

MUTE	SEND	1	OFF	0)FF	
SOLO	SEND	2	OFF	C	FF	
Pan	SEND	3	OFF	C)FF	
VOLUME	SEND	4	MASTE.MI TU	NE C)FF	
Project _	Program	Pad Scene	Pad Param	Sche	en j	Parameter

You can customize the parameters shown in this mode by using the **Q-Link Setup** section in MPC software window. To see the user guide in the MPC software and learn how to do this, click the **Help** menu, select **MPC Help**, and select **MPC User Manual**.

Pad Scene

In the **Pad Scene** Q-Link Edit Mode, the Q-Link knobs control your favorite 16 parameters for the currently selected pad. You can select another pad simply by pressing it, allowing you to adjust the same 16 parameters for that new pad. (These assignments are automatically saved with other user settings. Any project you load will use these assignments.)

SEND 1 SEND 2 SEND 3 SEND 4 LEVEL PAN PAD SOLO PAD MUTE	AMP E. AT	TACK AMP ENV D	ECAY AMP E.SUS	TAIN AMP E.RELEASE
LEVEL PAN PAD SOLO PAD MUTE	FILTER CUT	TOFF FILTE.SON	ANCE FILTE. AM	OUNT TUNING
	SEND 1	SEND 2	SEND 3	SEND 4
Project, Program Pad Scene Pad Param Screen 5	LEVEL			
Parameter	Project	Program Pad	<mark>Scene</mark> Pad Param	Screen Parameter

To select a pad, press it.

You can customize the parameters shown in this mode by using the **Q-Link Setup** section in MPC software window. To see the user guide in the MPC software and learn how to do this, click the **Help** menu, select **MPC Help**, and select **MPC User Manual**.

Pad Parameter

In the **Pad Parameter** Q-Link Edit Mode, the Q-Link knobs control the same pad parameter for the each of the 16 pads in the current pad bank.

For example, if the **Parameter** is set to **Level**, the 16 Q-Link knobs will adjust the 16 independent **Level** settings for each pad in the current pad bank. You could then set the **Parameter** to **Pan** and use the Q-Link knobs to adjust the panning of all 16 pads.

Tip: Pressing **F6/Parameter/Value** to switch between viewing the parameter names (**Parameter**) and values (**Value**) in the screen is the most useful in this mode.

LEVEL LEVEL LEVEL LEVEL LEVEL LEVEL LEVEL LEVEL LEVEL LEVEL	
	LEVEL
LEVEL LEVEL LEVEL LEVEL	LEVEL
	LEVEL
LEVEL LEVEL LEVEL LEVEL	
Project Program Pad Scene Pad Param Screen Paramet	Project

-6.75dB	-1.48	3dB	-4.39dB	-21.9	6dB
-5.36dB	-4.07	²dB	+3.18dB	-7.49	dB
-13.79dB	-2.87	²dB	-4.70dB	-9.49	dB
-2.03dB	-6.75	īdB	-1.48dB	+1.68	dB
Project	Program	Pad Scene	Pad Param	Screen	Value

You can customize the parameters shown in this mode by using the **Q-Link Setup** section in MPC software window. To see the user guide in the MPC software and learn how to do this, click the **Help** menu, select **MPC Help**, and select **MPC User Manual**.



Screen

In the **Screen** Q-Link Edit Mode, the Q-Link knobs will control only the parameter or group of parameters in your currently selected mode (e.g., Main Mode, Sample Edit Mode, etc.).

SEQUE.E TEMPO	SEQUE. LENGTH	SEQUE.P START	SEQUE.OOP END
CURRENT TRACK	TRACK LENGTH	TRACK.ELOCITY	TRACK.ANSPOSE
PROGRAM LEVEL	PROGRAM PAN	METRO. ENABLE	METRO.E LEVEL
TIME CORRECT		SHIFT TIMING	TIME .TRENGTH
Project Pros	aram <mark>P</mark> ad Scene	Pad Panam <mark>Scr</mark>	een Parameter

MIDI Control Mode

You can use MIDI Control Mode on your MPC hardware to customize what MIDI messages each control sends. This custom "control map" will then work whenever you are in MIDI Control Mode. The edits you make in MIDI Control Mode will be retained with the current MPC project.

This is helpful when using MPC as a plugin: you can use MIDI Control Mode to use your MPC hardware to control your host software, and then switch back to any other mode to control the MPC plugin.

To enter MIDI Control Mode, press Shift+Song/Other.

Important: In your host software, make sure your MPC hardware is selected as a MIDI controller device.

<mark>Control:</mark> Ω-Link 4	Set All: On
Light LED: Local	Low Range: 0
Midi Channel:1	High Range: 127
CC Number: 103	Touch Sense: Off
Mode: Absolute	Touch Note: 3 [Eb-2]
Prefs	

Use the fields to set each control's parameters to your preference. The available parameters depend on its type: a **pad**, or **button**, or a **Q-Link knob**. When you have set all of the parameters as desired, you can select another control or enter another mode.

These are the buttons under the screen:

F1 Prefs Press this button to show the Preferences screen. See General Features > Preferences to learn more.

To select a pad or button to edit, use the Control field, or press it on your MPC hardware.

To select a Q-Link knob to edit, use the Control field, or touch or turn it on your MPC hardware.

Note: The **Control** field may show many more hardware controls than are actually available on your MPC hardware. This is because the list includes all possible controls from all current MPC models (MPC Renaissance, MPC Studio, MPC Touch, etc.). You can edit only the controls that are described in this chapter.

Note: The MPC software window will also display a graphical interface resembling your MPC hardware. Editable controls show their current MIDI message. Pads and Q-Link knobs show their current MIDI channels.

Pads

Control: Pad 16	Set All: Off
Light LED: Local	Aftertouch: Poly
Midi Channel:10	
Note: 15 [Eb-1]	
Velocity:On	
Prefs	

These are the MIDI parameters you can edit for each pad:

Control is the hardware control you are currently editing (Pad 1-Pad 16).

Set All determines whether or not these settings will be applied across all pad banks.

- **On**: The pad's messages and parameters will be identical across all eight banks.
- Off: The pad's messages and parameters will apply to the current pad only.

Light LED determines how the pad's LEDs will behave.

- Never: The LEDs will always be off.
- MIDI Input: The LEDs will light up when the software receives a MIDI message that matches the pad.
- Local: The LEDs will light up when you press the pad and/or MIDI input is received.

Midi Channel determines which MIDI channel (1-16) the pad will use to send its message to the software.

Note is the MIDI note number the pad will send to the software when you press it (0–127 or C-2 to G8).

Velocity determines whether the pad will be velocity-sensitive (On) or not (Off). When set to Off, pressing the pad will send a note at full-level (127) always.

Aftertouch determines how the pad's aftertouch (pressure applied to the pad after the initial press) behaves.

- Off: The pad will not send any aftertouch messages.
- **Channel**: If you press multiple pads that have this setting, the aftertouch messages they send will be identical.
- Poly: If you press multiple pads, the aftertouch message each pad sends will be independent from the others.

Buttons

Control: Step Seq	Set All:On				
Light LED: Local					
Midi Channel:1					
CC Number: 2 [Breath]					
Type: Momentary					
Prefs					

These are the MIDI parameters you can edit for each button.

Control is the hardware control you are currently editing (the button name).

Light LED determines how the button's LED (or multiple LEDs) will behave.

- Never: The LEDs will always be off.
- **MIDI Input**: The LEDs will light up when the software receives a MIDI message that matches the button.
- Local: The LEDs will light up when you press the button and/or MIDI input is received.

Midi Channel determines which MIDI channel (1-16) the button will use to send its message to the software.

CC Number determines what MIDI control change number the button will send to the software.

Type determines whether the button will behave as a temporary switch (**Momentary**) or latching switch (**Toggle**). **Set All** determines whether or not these settings will be applied across all buttons.

- **On**: The button's messages and parameters will be identical across all buttons.
- Off: The button's messages and parameters will apply to the current button only.

Q-Link Knobs

<mark>Control:</mark> Ω-Link 4	Set All: On		
Light LED: Local	Low Range: 0		
Midi Channel:1	High Range: 127		
CC Number: 103	Touch Sense: Off		
Mode: Absolute	Touch Note: 3 [Eb-2]		
Prefs			

These are the MIDI parameters you can edit for each **Q-Link knob**:

Control is the hardware control you are currently editing (Q-Link 1-16).

Light LED determines how the Q-Link knobs LEDs will behave on an MPC Renaissance. This does not have a function on MPC Studio (whose Q-Link knobs do not have LEDs).

- Never: The LEDs will always be off.
- MIDI Input: The LEDs will light up when the software receives a MIDI message that matches the Q-Link knob.
- Local: The LEDs will light up when you touch or turn the Q-Link knob and/or MIDI input is received.

Midi Channel determines which MIDI channel (1–16) the Q-Link knob will use to send its message to the software.

CC Number determines what MIDI control change number the Q-Link knob will send to the software.

Mode determines how the Q-Link knob will control its parameter:

- **Absolute**: The Q-Link knob's current position determines its parameter's value; moving it may cause its parameter to "snap" to a new position if you're using it to control different parameters in different modes.
- Relative: Moving the Q-Link knob will increase or decrease its parameter regardless of its physical position.

Set All determines whether or not these settings will be applied across all Q-Link knobs.

- On: The Q-Link knob's messages and parameters will be identical across all Q-Link knobs.
- Off: The Q-Link knob's messages and parameters will apply to the current Q-Link knob only.

Low Range is the Q-Link knob's lowest possible value (0-127).

High Range is the Q-Link knob's highest possible value (0-127).

Touch Sense activates or deactivates the Q-Link knob's touch-capacitive circuitry.

- **On**: You can touch the Q-Link knob to send a Note On message to the software (this is how your MPC hardware normally works).
- Off: The Q-Link knob will not send any Note On messages; it will only send CC messages when you turn it.

Touch Note is the MIDI note number the Q-Link knob will send to the software when you touch it (0–127 or C-2 to G8). Touch Sense must be set to On for this to work.

Pad Perform Mode

Pad Perform Mode lets you assign musical scales/modes, chords, or progressions to the pads for more creative performance.

To enter Pad Perform Mode, press Pad Assign while using a keygroup program, MIDI program, plugin program, or CV program. (Although you can enter Pad Perform Mode while using a drum program or clip program, it does not work with these programs.)

Now:001:01 :00				
Type: Chords	A 5	B 5	66	D 6
Scale:C Major	D 5	E 5	F 5	G 5
Chord: 1-3-5	G 4	A 4	B 4	05
Banks: Start on root	04	D 4	E 4	F 4
Notes 1-3-5 1-3-5-7	Program	Octa	ve- 1 Oc	tave+

Now:001:01 :00							
Туре: Р	rogression	s	١.	Am	Dm	В	Bdim
Scale: C Hador			4	0	F	G	Em
Chord: Classic Major			Am	Dm	В	Bdim	
Banks:Start on root			0	F	G	Em	
Notes	1-3-5	1-3-5-7	Pr	oarsn	Octav	ve- 1 0	ictave+

The screen will show the current pad bank's mapping of notes or chords. The pads are shown in a 4x4 array with the names of their assigned note or chord.

To play a note or chord, press it on your MPC hardware.

To shift the octave range of the pads down or up, press F5/Octave- or F6/Octave+ (respectively).

To transpose the pads down or up, press Shift+F5/Note- or Shift+F6/Note+ (respectively).

These are the buttons under the screen:

F1	Notes	Press this button to set Type to Notes .
F2	1-3-5	Press this button to set Type to Chords and set Chord to 1-3-5 (major/minor).
F3	1-3-5-7	Press this button to set Type to Chords and set Chord to 1-3-5-7 (major7/minor7).
F4	Progrsn	Press this button to set Type to Progressions .
F5	Octave-	Press this button to shift the pad assignments down an octave.
F6	Octave+	Press this button to shift the pad assignments up an octave.
Shift+F2	1-4-5	Press these buttons to set Type to Chords and set Chord to 1-4-5 (sus4).
Shift+F3	1-3-5-7b	Press these buttons to set Type to Chords and set Chord to 1-3-5-7b (dominant).
Shift+F5	Note-	Press these buttons to shift the pad assignments down a semitone, essentially lowering the Root Note field by a half-step.
Shift+F6	Note+	Press these buttons to shift the pad assignments up a semitone, essentially raising the Root Note field by a half-step.

Now is the time counter at the top of the screen, which shows the current playhead position. See General Features > Now & Locators to learn about this.



Type determines what will be mapped over the pads:

- **Chromatic:** Each pad is assigned a note, ascending by one semitone with each pad. Pads with notes in the key determined by the **Scale** will be lit, while pads with notes between the scale degrees will be unlit.
- Notes: Each pad is assigned a note, ascending by one scale degree with each pad.
- **Chords**: Each pad is assigned a chord, the root note ascending by one scale degree with each pad. All available chords will play in the key determined by the **Scale** field.
- **Chromatic Chords**: Each pad is assigned a chord, the root note ascending by one scale degree with each pad. You can play any chord type regardless of the key determined by the **Scale** field. Essentially, this is like the Chords setting but with more options to play chords out of the set key.
- **Progressions**: Each pad is assigned a chord in a chord progression. You can play the pads in (or out of) order to construct songs quickly. The available chords are determined by the **Chord** field.

Now: 001 : 01 : 00	
Type: Chromatic	A B C#3 D 3 D#3
Scale:C Natural Minor	G#2 A 2 A#2 B 2
Chord (Not available)	E2 F2 F#2 G2
Banks: Start on root	C#2 D 2 D#2
Notes 1-3-5 1-3-5-7	Program Octave- Octave+

Now:001:01 :00	
Type: Notes	A A 5 B 5 0 6 D 6
Scale:C Major	D5 E5 F5 G5
Chord (Not analable)	G4 A4 B4 05
Banks:Start on root	🖲 🤂 🛛 D 4 🛛 E 4 🛛 F 4
Notes 1-3-5 1-3-5-7	Progran Octave- Octave+

Now: 001	:01 :00					
Type: Ch	onds	A	A 5	В 5	0.6	D 6
Scale: C	Major		D 5	E 5	F 5	G 5
Chord: 1-	3-5		G 4	A 4	B 4	05
Banks: St	art on root		04	D 4	E 4	F 4
Notes	1-3-5 1-3-5-7	Pr	oarsn	Octa	ve- 1 0	ctave+

Now:001:01 :00	
Type: Chromatic Chords	A 5 85 06 D6
Scale:C Major	D5 E5 F5 G5
Chord: Minor	G 4 A 4 B 4 0 5
Banks: Start on root	⑥석 D4 E4 F4
Notes 1-3-5 1-3-5-7	Program Octave- Octaves

Now:001:01 :00					
Type: Progressions	A	Am	Dm	В	Bdim
Scale: C Hadon	4	Θ	F	G	Em
Chord: Classic Major		Am	Dm	В	Bdim
Banks: Start on root		0	F	G	Em
Notes 1-3-5 1-3-5-7	Pr	oarsn	Octav	/e- C	Ctave+



Scale determines the root note and the scale type.

Root Note (pitch and register): This is the starting point of the scale. The available notes are all chromatic notes across the range of the pads. The pad that's assigned the root note will be lit differently (and highlighted on the screen) to indicate where the scale starts in each octave.

Scale Type: This is the scale or mode based on the root note (this is disabled when **Type** is set to **Progressions**). The available scales are:

Major	Gypsy	Dorian
Natural Minor	Hungarian Gypsy	Phrygian
Harmonic Minor	Persian	Lydian
Pentatonic Major	Major Bebop	Mixolydian
Pentatonic Minor	Whole Tone	Aeolian
Blues (minor)	Chromatic	Locrian
Flamenco		

Chord determines what chord type will play when pressing a pad. The chord will use those scale degrees based off of the pad's root note. You can use this only when **Type** is set to **Chords** or **Chromatic Chords**.

When set to Chords, the available chords are:

1-3-5 (major/minor)	1-3-5-7 (major7/minor7)
1-4-5 (sus4)	1-3-5-7b (dominant)
1-2-5 (sus2)	

When set to Chromatic Chords, the available chords are:

Major7	Augmented
Minor7	Diminished
Major9	
Minor9	
	Minor7 Major9

Banks determines how the notes are mapped across the pad banks:

- Continuous: Pad 1 of one bank is always one scale degree higher than Pad 16 of the previous bank.
- Start on Root: Pad 1 will always be the root note of the scale in every pad bank.

Appendix

Effects & Parameters

This chapter lists the available effects. To learn more about how effects work with MPC, please see **General Features** > **Effects**.

Note: Some of these effects have a "sync" version (e.g., **Flanger Sync**, **Autopan Sync**, etc.) whose rates will be affected by the current tempo. While viewing the rate of these effects, a "." next to the time division indicates a triplet-based rate.

Reverbs

Options: Reverb Small, Reverb Medium, Reverb Large, Reverb Large 2, Reverb In Gate, Reverb Out Gate

Reverb Small

This is a spatial effect, designed to emulate a small room.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Pre-Delay	1–100	50
Early Reflection	0–100	50
Density	0–100	50
Diffuse	0–100	50
Decay	0–100	50
Lo-Cut	0–100	15
Hi-Cut	0–100	10
Hi-Cut	0–100	10

Reverb Medium

This is a spatial effect, designed to emulate a medium room.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Pre-Delay	1–100	50
Early Reflection	0–100	50
Density	0–100	50
Diffuse	0–100	50
Decay	0–100	50
Lo-Cut	0–100	15
Hi-Cut	0–100	10

Reverb Large

This is a spatial effect, designed to emulate the sound of a large hall.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Pre-Delay	1–100	50
Early Reflection	0–100	50
Density	0–100	50
Diffuse	0–100	50
Decay	0–100	75
Lo-Cut	0–100	10
Hi-Cut	0–100	10

Reverb Large 2

This is a less CPU-intensive spatial effect, emulating the sound of a large hall.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Pre-Delay	1–100	50
Early Reflection	0–100	50
Density	0–100	50
Diffuse	0–100	50
Decay	0–100	75
Lo-Cut	0–100	10
Hi-Cut	0–100	10

Reverb In Gate

This is a hall reverb with an additional control. The reverb effect is cut off when the input drops below the level set in the **Gate In** parameter.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Pre-Delay	1–100	50
Early Reflection	0–100	50
Density	0–100	50
Diffuse	0–100	50
Decay	0–100	75
Lo-Cut	0–100	10
Hi-Cut	0–100	10
Gate In	0–100	0

Reverb Out Gate

This is a hall reverb that has an additional control. The reverb effect is cut off when the output drops below the level set in the **Gate Out** parameter.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Pre-Delay	1–100	50
Early Reflection	0–100	50
Density	0–100	50
Diffuse	0–100	50
Decay	0–100	75
Lo-Cut	0–100	10
Hi-Cut	0–100	10
Gate Out	0–100	0

Delays

Delays the original signal for a specified period of time and plays it back over an adjustable period of time.

Options: Delay Mono, Delay Mono Sync, Delay Stereo, Delay Sync (Stereo), Delay LP, Delay HP, Delay Analog, Delay Analog Sync, Delay Tape Sync, Delay Ping Pong, Delay Multi-Tap

Delay Mono

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Time	2–2000 ms	100
Feedback	0–100	25
Damping	0–100	100

Delay Mono Sync

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Time	1 bar – 1/16 triplets	1/4
Feedback	0–100	50
Damping	0–100	100

Delay Stereo

Stereo Delay operates similarly to Mono Delay but in true stereo.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Time	2–2000 ms	100
Feedback	0–100	25
Damping	0–100	100

Delay Sync (Stereo)

Stereo Delay operates similarly to Mono Delay but in true stereo.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Time	1 bar – 1/16 triplets	1/4
Feedback	0–100	50
Damping	0–100	100

Delay LP

LP Delay is identical to the Mono Delay, but it uses a resonant low-pass filter in the delay line.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Time	2–2000 ms	500
Feedback	0–100	50
Cutoff	0–100	50
Resonance	0–100	20

Delay HP

HP Delay is identical to the Mono Delay, but it uses a resonant high-pass filter in the delay line.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Time	2–2000 ms	100
Feedback	0–100	50
Cutoff	0–100	33
Resonance	0–100	33

Delay Analog

Analog Delay is similar to the Mono Delay, except that it's designed to emulate an analog "Bucket Brigade"-style delay. This delay has a unique character to it that gives a warmer sound by adding subtle inaccuracies in phase and timing.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Time	2–2000 ms	100
Feedback	0–100	25

Delay Analog Sync

Analog Delay is similar to Mono Delay, except that it's designed to emulate an analog "Bucket Brigade"-style delay. This delay has a unique character to it that gives a warmer sound by adding subtle inaccuracies in phase and timing.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Time	1 bar – 1/16 triplets	1/4
Feedback	0–100	50
Ramp	0–100	50

Delay Tape Sync

Tape Delay emulates a delay system using an analog tape loop and a series of tape heads to produce an echo effect. This delay type yields a very distinct echo sound often heard in reggae and dub-style music.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Time	1 bar – 1/16 triplets	1/4
Feedback	0–100	50
Ramp	0–100	50
Head 1	0–100	100
Head 2	0–100	0
Head 3	0–100	0
Head 4	0–100	0
Tone	0–100	50
Spread	0–100	50
Wow & Flutter	0–100	50

Delay Ping Pong

This stereo delay allows you to set different delay times for its left and right repeats.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Time, Left	2–2000 ms	100
Time, Right	2–2000 ms	100
Feedback	0–100	25
Damping	0–100	100

Delay Multi-Tap

This delay is a mono delay which has three delay generators with independently adjustable delay times and stereo position.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	50
Time 1	2–2000 ms	100
Time 2	2–2000 ms	100
Time 3	2–2000 ms	100
Feedback	0–100	25
Pan 1	0–100	50
Pan 2	0–100	50
Pan 3	0–100	50
Damping	0–100	100
Gain 1	0–100	25
Gain 2	0–100	25
Gain 3	0–100	25

Flangers

A flanger is a modulated delay to emulate the sound created when running two analog tape machines in parallel with a slight time misalignment. Slow **Rate** settings can produce a "whooshing" jet engine sound, while faster rates result in more of a "warble."

Options: Flanger, Flanger Sync

Flanger

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Rate	0–100	10
Feedback	-100 – 100	0
Delay	0–100	20
Width	0–100	80

Flanger Sync

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Rate	8 bars – 1/16 triplets	1/4
Feedback	-100 – 100	0
Delay	0–100	20
Width	0–100	80

Choruses

A chorus effect uses an LFO to modulate the pitch and a delay of the input signal, which are then added to the dry signal. In small amounts, this creates the illusion of multiple voices playing at once. Turn up the **Feedback** and **Depth** for more pronounced "shimmering" and "watery" sounds.

Options: Chorus 2-Voice, Chorus 4-Voice

Chorus 2-Voice

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Delay	0–100	20
Amount	0–100	80
Width	0–100	80
Feedback	0–100	50
Rate	0–100	10

Chorus 4-Voice

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Delay	0–100	20
Amount	0–100	80
Width	0–100	80
Feedback	0–100	50
Rate	0–100	10

Autopans

This effect uses an LFO to move the incoming signal back and forth across the stereo field, creating a rotary effect. **Options**: *Autopan*, *Autopan* Sync

Autopan

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Rate	0–100	10

Autopan Sync

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Rate	8 bars - 1/32	1/4

Tremolos

This effect uses an LFO to increase and decrease the volume of the signal. Depending on the LFO shape, this can produce a smooth wave effect (sine wave) or a stuttering "on-off" effect (square wave).

Options: Tremolo, Tremolo Sync

Tremolo

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Rate	0–100	10
Sine to Square	0–100 (sine–square)	0

Tremolo Sync

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Rate	1 bar – 1/16 triplets	1/4
Sine to Square	0–100 (sine-square)	0

Phasers

The classic phaser effect created by multiple ganged all-pass filters to create "notches," or sharp spikes, in the frequency spectrum. The frequencies of these all-pass filters are usually modulated by an LFO to create a sweeping sound.

Options: Phaser 1, Phaser 2, Phaser Sync

Phaser 1

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Rate	0–100	10

Phaser 2

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Rate	0–100	10

Phaser Sync

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Rate	1 bar – 1/16 triplets	1/4

Options: HP Filter, HP Filter Sweep, HP Filter Sync, HP Shelving Filter

HP Filter

This effect is a static filter without modulation.

Parameter	Value Range	Default Value
Frequency	10–19999 Hz	1500
Resonance	0–100	0

HP Filter Sweep

This effect is a high-pass filter with its cutoff frequency modulated by an LFO.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	80
Low Frequency	0–100	50
High Frequency	0–100	100
Resonance	0–100	33
Rate	0–100	10

HP Filter Sync

This effect is a high-pass filter with its cutoff frequency modulated by an LFO.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Low Frequency	0–100	0
High Frequency	0–100	100
Resonance	0–100	50
Rate	8 bars – 1/32	1/4

HP Shelving Filter

This filter differs from the standard filter type, as it attenuates **p** all frequencies after the cutoff point equally.

Parameter	Value Range	Default Value
Frequency	10–19999 Hz	1500
Resonance	0–100	0
Gain	-18.0 – 18.0 dB	0.0

Options: LP Filter, LP Filter Sweep, LP Filter Sync, LP Shelving Filter

LP Filter

This effect is a static filter without modulation.

Parameter	Value Range	Default Value
Frequency	10–19999 Hz	1500
Resonance	0–100	0

MP

LP Filter Sweep

This effect is a low-pass filter with its cutoff frequency modulated by an LFO.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	80
Low Frequency	0–100	0
High Frequency	0–100	100
Resonance	0–100	33
Rate	0–100	10

LP Filter Sync

This effect is a low-pass filter with its cutoff frequency modulated by an LFO.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Low Frequency	0–100	0
High Frequency	0–100	100
Resonance	0–100	50
Rate	8 bars – 1/32	1/4

LP Shelving Filter

This filter differs from the standard filter type, as it attenuates all frequencies after the cutoff point equally.

Parameter	Value Range	Default Value
Frequency	10–19999 Hz	1500
Resonance	0–100	0
Gain	-18.0 – 18.0 dB	0.0

Options: PEQ 2-Band, 2-Shelf, PEQ 4-Band

PEQ 2-Band, 2-Shelf

This effect is a combination of one two-band parametric equalizer and two shelving filters.

Parameter	Value Range	Default Value
Low Frequency	22–1000 Hz	220
Frequency 1	82–3900 Hz	820
Frequency 2	220–10000 Hz	2200
High Frequency	560–19999 Hz	5600
Q1	0–100	0
Q2	0–100	0
Low Gain	-18.0 – 18.0 dB	0.0
Gain 1	-18.0 – 18.0 dB	0.0
Gain 2	-18.0 – 18.0 dB	0.0
High Gain	-18.0 – 18.0 dB	0.0

PEQ 4-Band

This effect is a powerful four-band parametric equalizer with four independent EQ ranges.

Parameter	Value Range	Default Value
Low Frequency	22–1000 Hz	220
Frequency 1	82–3900 Hz	820
Frequency 2	220–10000 Hz	2200
High Frequency	560–19999 Hz	5600
Q1	0–100	5
Q2	0–100	5
Q3	0–100	5
Q4	0–100	5
Gain 1	-18.0 – 18.0 dB	0.0
Gain 2	-18.0 – 18.0 dB	0.0
Gain 3	-18.0 – 18.0 dB	0.0
Gain 4	-18.0 – 18.0 dB	0.0

Distortions

Options: Distortion Amp, Distortion Fuzz, Distortion Grimey, Distortion Overdrive, Distortion Custom

Distortion Amp

This effect is designed to reproduce the sound of a tube amplifier at high volumes.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Drive	0–100	50
Tone	0–100	50
Dynamics	0–100	50
Output	0–100	50

Distortion Fuzz

This popular effect uses hard clipping of the audio signal, which, at extreme settings, can turn a standard waveform into a square wave, producing a "razor" effect.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Drive	0–100	50
Output	0–100	50
Low	0–100	50
Low-Mid	0–100	50
High-Mid	0–100	50
High	0–100	50

Distortion Grimey

This is a unique distortion effect that distorts a frequency range in a selectable band.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Drive	0–100	50
Grime	0–100	50
Center	0–100	50
Width	0–100	50
Resonance	0–100	50
Output	0–100	50

Distortion Overdrive

This distortion is designed to sound like a mildly distorting amplifier at medium volumes. It is the smoothest distortion type available.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Drive	0–100	50
Tone	0–100	50
Output	0–100	50

Distortion Custom

This effect is a highly customized distortion, capable of a wide range of useable sounds.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Drive	0–100	50
+Soft	5–75	2
+Clip	5–50	25
-Soft	5–75	2
–Clip	5–50	25
Low	-18.0 – 18.0 dB	0.0
Mid	-18.0 – 18.0 dB	0.0
High	-18.0 – 18.0 dB	0.0
Output	-18.0 – 18.0 dB	50

Compressors

A compressor is an effect that changes the dynamic range of a signal by automatically reducing its gain.

Options: Compressor Master, Compressor Opto, Compressor VCA, Compressor Vintage

Compressor Master

This is the most transparent compressor, able to perform substantial volume adjustments without artifacts.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Attack	0–100	50
Release	0–100	50
Threshold	-50 – 0 dB	0
Ratio	1–20	1
Oldskool	Off, On	Off
Output	-6 – 24 dB	0

Compressor Opto

The Opto Compressor is modeled after a vintage compressor type using an optical circuit to control the volume reduction of the input signal. These compressors are usually associated with soft and unobtrusive attack and release characteristics.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Input	-6 – 18 dB	0
Attack	0–100	50
Release	0–100	50
Threshold	-50 – 0 dB	0
Ratio	1–20	1
Knee	1–100	1
Output	-6 – 24 dB	0

Compressor VCA

This compressor is more modern-sounding, with a slightly more transparent sound. A VCA Compressor tends to have quicker attack and release times than an Opto Compressor.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Input	-6 – 18 dB	0
Attack	0–100	50
Release	0–100	50
Threshold	-50 – 0 dB	0
Ratio	1–20	1
Knee	1–100	1
Output	-6 – 24 dB	0

Compressor Vintage

This compressor has a sound similar to classic tube compressors, with their gentle yet pumping response and a dash of tube saturation.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Input	-6 – 18 dB	0
Attack	0–100	50
Release	0–100	50
Threshold	-50 – 0 dB	0
Ratio	1–20	1
Knee	1–100	1
Output	-6 – 24 dB	0

Bit Reducers

Options: Decimator, Resampler

Decimator

Decimator down-samples the incoming signal by removing bits from the digital signal. The difference between decimation and resampling is that Decimator does not use any filtering to mask or correct digital artifacts. The result is an effect ranging from mild to almost completely pure digital distortion, depending on the setting and the source material.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Decimate	0–100	0
Bit Reducer	4–32	32

Resampler

Resampler is similar to Decimator in that it removes bits from an incoming signal. The difference is that Resampler applies a complex suite of filters and anti-aliasing to attempt to retain the original sound quality. This is a method used by popular vintage samplers and sampling drum machines from the 1980s. Resampler can be used to achieve a "dirty" sound on drum loops, without the harshness of distortion.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Rate	0–100	0
Decimate	0–100	0

Other

Options: Auto Wah, Frequency Shifter, Transient Shaper

Auto Wah

This effect is a low-pass filter modulated by an envelope that yields a classic funky "wah-wah"- like sound. The envelope is triggered by the incoming signal's amplitude. The amount of the envelope on the cutoff frequency is user-definable.

Value Range	Default Value
0–100 (dry-wet)	100
0–100	75
0–100	30
0–100	30
0–100	50
0–100	50
	0–100 (dry–wet) 0–100 0–100 0–100 0–100

Frequency Shifter

A frequency shifter changes the frequencies of an input signal by a fixed amount and alters the relationship of the original harmonics. This can produce a chorus-like effect as well as very crazy artificial timbres.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Frequency	-1000 – 1000	0
Asynchrony	0–1000	0
A Pan	0–100	0
B Pan	0–100	100
A Gain	0–100	75
B Gain	0–100	75

Transient Shaper

A transient shaper can be used to enhance or soften the Attack and Release phases of audio material.

Parameter	Value Range	Default Value
Dry/Wet	0–100 (dry–wet)	100
Attack	0–100	50
Release	0–100	50
Output	0–100	50

Glossary

This glossary briefly defines and explains many of the technical terms used throughout this manual.

Aftertouch	The majority of contemporary keyboards are capable of generating aftertouch messages. On this type of keyboard, when you press harder on a key you are already holding down, a MIDI aftertouch message is generated. This feature makes sounds even more expressive (e.g., through vibrato).
Aliasing	Aliasing is an audible side effect arising in digital systems as soon as a signal contains harmonics higher than half the sampling frequency.
Amount	Describes to which extent a modulation source influences a given parameter.
Amplifier	An amplifier is a component that influences the volume level of a sound via a control signal. It can be modulated by a control signal (e.g., generated by an <i>envelope</i> or an <i>LFO</i>).
Attack	An <i>envelope</i> parameter. This term describes the ascent rate of a time-relevant process (e.g., an envelope from its starting point to the point where it reaches its highest value). The attack phase is initiated immediately after a trigger signal is received (e.g., after you play a note on a trigger pad or a keyboard).
Bit Rate	Bit rate (also known as word length), is the number of bits used to store the level information of each single sample slice within a whole sample. The higher the bit rate, the more precise the information about a sample (i.e., its dynamics' resolution). Normal audio CDs are 16-bit. The MPC hardware supports full 24-bit resolution.
Bounce	When you "bounce" a sequence, track, or program, you are rendering that part of your project as an audio file (as opposed to a MIDI file). The MPC hardware lets you bounce sequences, tracks, or programs as samples (saved to your project's sample pool) or as full audio tracks (saved to your project's sample pool) or as full audio tracks (saved to your project's sample pool).
	Bouncing a track will render that track after it is sent through its program. Bouncing a program will render all tracks that use that program after they are sent through it. Bouncing a sequence will render all tracks in that sequence after they are sent through their respective programs.
Clipping	Clipping is a sort of distortion that occurs when a signal exceeds the maximum value that can be handled by a signal processing system it is fed into. The curve of a clipped signal is dependent on the system where the clipping occurs. In the analog domain, clipping effectively limits the signal to a given maximum level. In the digital domain, clipping is similar to a numerical overflow, resulting in negative polarity of the signal's portions exceeding the maximum level.
Control Change (Controllers)	MIDI messages enable you to manipulate the behavior of a sound generator to a significant degree. This message essentially consists of two components:
(0011101010)	• The controller number, which determines the parameter to be influenced. It can range from 0 to 127 .
	The controller value, which determines the extent of the modification.
	Controllers can be used for effects such as slowly swelling vibrato, changing the stereo panning position and influencing filter frequency.
Cutoff	The cutoff frequency is a significant factor for a <i>filter</i> . A low-pass filter for example dampens the portion of the signal that lies above this frequency. Frequencies below this value are allowed to pass through without being processed.

CV CV stands for control voltage, an analog method of sending control messages to external synthesizers, drum machines, etc. CV messages are typically used in conjunction with Gate messages (CV messages determine the pitch of notes while Gate messages determine note activation and length). CV messages are sent from the CV out ports of your MPC hardware and to the CV in ports of your external MIDI device. Please note that each external MIDI device uses a specific control voltage range, which determines how many volts are used in each octave (e.g., 1V/oct). Be mindful of this when setting it up with the MPC software and/or controller hardware-mismatched voltage ranges can produce unusual/undesirable "re-scaling" of the octaves. Decay Decay describes the descent rate of an envelope once the attack phase has reached its maximum and the envelope drops to the level defined by the sustain value. An envelope is used to modulate a sound-shaping component within a given time. For instance, Envelope an envelope that modulates the cutoff frequency of a filter opens and closes this filter over a

> period of time. An envelope is started via a trigger, usually a MIDI note. The classic **ADSR** envelope consists of four individually variable phases: **attack**, **decay**, **sustain**, and **release**. Attack, decay and release are time or slope values, while sustain is an adjustable level. Once an incoming trigger is received, the envelope runs through the attack and decay phases until it reaches the programmed sustain level. This level remains constant until the trigger

You can see and read about the envelopes used in MPC Studio in *Operation > Modes > Program Edit Mode > Anatomy of an Envelope*.

is terminated. The envelope then initiates the release phase until it reaches the minimum value.

Filter A filter is a component that allows some of a signal's frequencies to pass through it and dampens other frequencies. The most important aspect of a filter is the filter cutoff frequency. Filters generally come in four categories: low-pass, high-pass, band-pass, and band-stop. These are the available filters:

A low-pass filter (the most common type) dampens all frequencies above the cutoff frequency.

A high-pass filter in turn dampens the frequencies below the cutoff.

A **band-pass** filter allows only those frequencies around the cutoff frequency to pass. All others are dampened.

A **band-stop** filter does the opposite of a band-pass: it dampens only the frequencies around the cutoff frequency.

A **band-boost** filter boosts the frequencies around the cutoff frequency, similar to what a band on an equalizer would do. All other frequencies pass through normally.

The number of **poles** in a filter's "slope" determines how extreme or subtle the effect of the filter will be. Filters with one or two poles produce a subtler sound while filters with six or eight poles are much more pronounced.

The **Model** filters are analog-style emulations of famous vintage synth filters. **Model1** is a fourpole filter that distorts at high input levels. **Model2** uses a mellow resonance with a "fattening" distortion in the lower frequencies. **Model3** can produce howling, piercing resonances and extreme sub frequencies—watch your speakers!

The **Vocal** filters are formant filters that emulate the human voice. **Vocal1** produces "ah" and "ooh" vowel sounds. **Vocal2** uses three bands to produce "oh" and "ee" vowel sounds. **Vocal3** uses five bands to emulate an idealized model of the vocal tract.

MPC3000 LPF is a dynamic, resonant low-pass filter (12 dB/oct) that was used on the original MPC3000, released in 1994.

Please also see the entry for **Resonance**, an essential characteristic of a filter's sound.

Gate Gate messages are analog messages sent to external synthesizers, drum machines, etc. Gate messages are typically used in conjunction with CV messages (CV messages determine the pitch of notes while Gate messages determine note activation and length). Gate messages are sent from the CV out ports of your MPC hardware and to the CV/Gate in ports of your external MIDI device.

- **LFO LFO** is an acronym for **low-frequency oscillator**. The LFO generates a periodic oscillation at a low frequency and features variable waveshapes. Similar to an envelope, an LFO can be used to modulate a sound-shaping component.
- MIDI MIDI stands for musical instrument digital interface. Developed in the early 1980s, MIDI enables interaction between various types of electronic music instruments from different manufacturers. At the time a communications standard for heterogeneous devices did not exist, so MIDI was a significant advance. It made it possible to link various devices with one another through simple, standardized connectors.

Essentially, this is how MIDI works: One sender is connected to one or several receivers. For instance, if you want to use a computer to play a MIDI synthesizer, the computer is the sender and the synthesizer acts as the receiver. With a few exceptions, the majority of MIDI devices are equipped with two or three ports for this purpose: MIDI In, MIDI Out and in some cases MIDI Thru. The sender transfers data to the receiver via the MIDI Out jack. Data are sent via a cable to the receiver's MIDI In jack.

MIDI Thru has a special function. It allows the sender to transmit to several receivers. It routes the incoming signal to the next device without modifying it. Another device is simply connected to this jack, thus creating a chain through which the sender can address a number of receivers. Of course, it is desirable for the sender to be able to address each device individually. To achieve this, a MIDI channel message is sent with each MIDI event.

- MIDI Channel This is a very important element of most messages. A receiver can only respond to incoming messages if its receive channel is set to the same channel as the one the sender is using to transmit data. Subsequently, the sender can address specific receivers individually. MIDI Channels 1–16 are available for this purpose.
- **MIDI Clock** The MIDI clock message transmits real-time tempo information to synchronize processes among several connected devices (e.g., a sound generator's delay time to a MIDI sequencer).
- **Modulation** A modulation influences or changes a sound-shaping component via a modulation source. Modulation sources include envelopes, LFOs or MIDI messages. The modulation destination is a sound-shaping component such as a filter or a VCA.
- Note On & Note Off This is the most important MIDI message. It determines the pitch and velocity of a generated note. A note-on message will start a note. Its pitch is derived from the note number, which can range from 0 to 127. The velocity ranges from 1 to 127. A velocity value of 0 is equivalent to a note-off message.
- **Normalize** Normalization is a function to raise the level of a sample to its maximum (**0 dB**) without causing distortion. This function automatically searches a sample for its maximum level and consequently raises the entire sample's level until the previously determined maximum level reaches 0 dB. In general, this results in a higher overall volume of the sample.
- **Panning** The process or the result of changing a signal's position within the stereo panorama.
- **Pitch-Bend** Pitch-bend is a MIDI message. Although pitch-bend messages are similar in function to control change messages, they are a distinct type of message. The resolution of a pitch-bend message is substantially higher than that of a conventional controller message. The human ear is exceptionally sensitive to deviations in pitch, so the higher resolution is used because it relays pitch-bend information more accurately.



Program	A program is a file that contains a list of all samples to be used, and settings for each sample (e.g., pad assignments, loop points, pitch tuning, effects, etc.) Program Edit Mode is where you can edit and assign samples (read more about this in <i>Operation > Modes > Program Edit Mode</i>). You can have a total of 128 programs in a project.
	There are three kinds of programs that use samples for their sound source. Drum programs are mostly used for creating drum programs and easy and quick assigning of samples to a pad. With keygroup programs, you can use one sample (or more) and spread it across two or more keys and play the sample chromatically over a keyboard. That way, there is no need to sample every key of, for instance, a piano. Clip programs use several samples that can be looped (clips), each of which can assigned to a pad; launching different combinations of clips together lets you create intriguing, layered performances.
Program Change	These are MIDI messages that select sound programs. Programs 1–128 can be changed via program change messages.
Release	An <i>envelope</i> parameter. This term describes the descent rate of an envelope to its minimum value after a trigger is terminated. The release phase begins immediately after the trigger is terminated, regardless of the envelope's current status. For instance, the release phase may be initiated during the attack phase.
Resonance	Resonance or emphasis is an important <i>filter</i> parameter. It emphasizes the frequencies around the filter cutoff frequency by amplifying them with a narrow bandwidth. This is one of the most popular methods of manipulating sounds. If you increase the emphasis to a level where the filter enters a state of self-oscillation, it will generate a relatively pure sine waveform.
Root Key	The root key determines the original pitch of a recorded instrument or of a sample. Samples in MPC contain the dedicated root key information. This information will be created automatically during recording or importing.
Sample	When you press the pads on your MPC hardware, you can trigger sounds that we call samples . Samples are digitized snippets of audio that can be recorded using the recording (sampling) function of your MPC hardware or loaded from the Browser.
	You can edit and process a sample in different ways. For example, a sample can be trimmed, looped, pitch-shifted or processed, using various effects. When you have finished editing your sample, you can assign it to one or more drum pads to play it. Samples can be either mono or stereo.
Sample Rate	This is the frequency representing the amount of individual digital sample scans per second that are taken to capture an analog signal digitally. For normal CD audio recordings, 44100 samples per second are used, also written as 44.1 kHz .
	You can export audio using sampling rates up to 96 kHz (see <i>Operation > General Features > Audio Mixdown</i>) and play audio using 44.1 kHz .
Sequence	A sequence is the most basic "building block" of music you can create within an MPC project. MIDI information from your MPC hardware pads, buttons, and Q-Link knobs are recorded to the tracks of a sequence. Each sequence on your MPC hardware can contain 128 MIDI tracks and 8 audio tracks. Each project can store up to 128 separate sequences.
	The length of a sequence can be set from 1 to 999 bars, which would be enough to create an entire song using only one sequence. However, MPC Studio has a dedicated Song Mode that lets you chain sequences together to create a song.
Song	Song Mode that allows you to arrange different sections (verse, chorus, hook, etc.) in order to build a song. Each song can have up to 999 "steps" (stages in which a sequence may play one or more times). Each project can store up to 32 songs.



- **Stretch Factor** The stretch factor is a value generated by the *Warp* algorithm in the software. When you record an audio file, the current sequence tempo will be embedded with it. This information is stored within the sample file when you save the project. When you warp an audio track region, the warping algorithm uses this sequence tempo and the current value in the **BPM** field to generate the stretch factor.
- **Sustain** This term describes the level of an *envelope* remaining constant after it has passed the attack and decay phases. Once reached, the sustain level is kept until the trigger is terminated.
- Time-Stretch See *Warp* below.
- Track A sequence on your MPC hardware can contain 128 MIDI tracks and 8 audio tracks.

Each **MIDI track** contains MIDI note events and controller data. In this case, the track contains no audio information—only MIDI information that uses the samples in a program (or an external MIDI sound module) to generate its audio. You can edit your performance in many different ways once the performance has been captured.

Each **audio track** contains an audio signal that has been recorded or imported into your project. You can edit this audio within the software and incorporate it into your sequences alongside your MIDI tracks.

- **Trigger** A trigger is a signal that initiates events. Trigger signals are very diverse. For instance, a MIDI note or an audio signal can be used as a trigger. The events a trigger can initiate are also very diverse. A common application for a trigger is its use to start an envelope.
- **Warp** The Warp feature lengthens or shortens a region of an audio track or sample without changing its pitch. This enables you to fit the length of an audio track or sample to the length of a sequence, a bar in your sequence, etc. while maintaining its original key.

Please note that the Warp algorithms are very CPU-intensive and can result in audio dropouts during playback if used too freely. Be mindful of how (and how often) you use the warp function. You can reduce the CPU resources required by doing any/all of the following:

Minimize the amount of pitch adjustment of warped audio.

In Program Edit Mode, avoid using extreme **Stretch** values.

Avoid warping very small audio regions.

Warp as few tracks or track regions as possible (i.e., reduce the number of total number of voices of the polyphonic limit that use the Warp algorithm at a given time), especially instances where the warped regions start at the same time.

Avoid rapidly triggering samples that are warped.

If you have warped samples used in a drum program, consider using the **Flatten Pad** function to consolidate the affected pad's layers into one audio sample. After you flatten the pad, its sample/samples no longer need to be warped. To see the user guide in the MPC software and learn how to do this, click the **Help** menu, select **MPC Help**, and select **MPC User Manual**.

Your MPC hardware can send and receive MIDI Machine Control (MMC) messages, a standard protocol for transport controls.

The MPC hardware can send these messages:

MPC Button	MMC Command Sent
Rec	MMC Record Strobe (when recording starts), then MMC Record Exit
Overdub	MMC Record Strobe (when recording starts), then MMC Record Exit
Stop	MMC Stop
Play	MMC Deferred Play
Play Start	MMC Locate Zero, then Deferred Play
Data Dial, -/+, , <>	MMC Locate values

To set up your MPC hardware to send MMC messages to an external device:

- 1. Use a standard 5-pin MIDI cable to connect your MPC hardware's **MIDI Out 1** to the MIDI input of your external device.
- In the MPC software window, enter the Preferences and use the Sync tab to set up MMC communication over the MIDI port. To learn how to do this, please see the MPC software user guide: click the Help menu, select MPC Help, and select MPC User Manual.
- 3. Configure your other device properly so it can receive MMC messages.

The MPC hardware can receive these messages:

MPC Command Received	MPC Function
MMC Deferred Play	Play
MMC Locate Zero, then Deferred Play	Play Start
MMC Stop	Stop
MMC Record Strobe	Record (Rec)
MMC Pause	Stop
MMC Locate values	Change location in sequence

To set up your MPC hardware to receive MMC messages from an external device:

- 1. Use a standard 5-pin MIDI cable to connect your MPC hardware's **MIDI In A** to the MIDI output of your external device.
- In the MPC software window, enter the Preferences and use the Sync tab to set up MMC communication over the MIDI port. To learn how to do this, please see the MPC software user guide: click the Help menu, select MPC Help, and select MPC User Manual.
- 3. Configure your other device properly so it can send MMC messages.

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Addenda

Updates in MPC 2.1

New Features

Step Sequencer: Velocity Adjustment via Q-Links

While using the Step Sequencer, you can now use the Q-Link knobs to adjust the velocity of the note event at each step. The numbers of the steps that correspond to the Q-Link knobs will be shown in the screen. (This has been added to *Operation* > *Modes* > *Step Sequencer*.)

- To show the step numbers in the screen, press Shift+Prog Edit/Q-Links, and then press F5/Screen. Press F6/Parameter/Value to switch between viewing the parameter names (Parameter) and values (Value) in the screen.
- To adjust the velocity of each note event, use the corresponding Q-Link knob to select a value (1-127).
- To enter a note event at a step, use the corresponding Q-Link knob to change its velocity from 0 (Off) to a value of 1 or greater.
- To delete a note event from a step, set the corresponding Q-Link knob to its minimum position, 0 (Off).

STEP 13	STEP 14	STEP 15	STEP 1	6
STEP 9	STEP 10	STEP 11	STEP 1	2
STEP 5	STEP 6	STEP 7	STEP 8	
STEP 1	STEP 2	STEP 3	STEP 4	
Project	Program Pad So	cene <mark>Pad Param</mark>	Screen	Parameter

VELOCITY: 11	OFF	VELOCITY: 50	OFF
VELOCITY: 39	OFF	OFF	OFF
OFF	VELOCITY: 18	OFF	VELOCITY: 102
VELOCITY: 127	VELOCITY: 36	OFF	VELOCITY: 19
Project Pro	ogram <mark>Pad Scene</mark>	Pad Panam Scr	reen Value



List Editor

You can view and edit MIDI tracks in a List Editor. This mode displays all events in the track as a sequential list with information about: the type of event; the MIDI note or pad, length, and velocity for note events; and the type and value of automation events. This feature has been available since earlier releases of the MPC software but not documented for use with MPC Renaissance or MPC Studio.

To open the List Editor, press Shift+Step Seq.

Now: 001	:01	:00 Vi	ew:All		Bem:	126.00
Time	Туре	Pad/Note	Length	Vel	Mod Type	/Value
001:01:00	Trk	A07 (46)			Aftertoud	:h 0
001:01:00	FX	Insert 1			Dynamics	49
001:01:00	Note	A01 (37)	23	127	(None)	None
001:01:00	Note	A05 (40)	23	127	(None)	None
т.с. (Edit	5 Trac	k Nudse		Insert	Play

These are the buttons under the screen:

- F1 T.C. Press this button to open the Timing Correct/T.C. screen, which contains various settings to help quantize the note events in your sequence. See General Features > Timing Correct/T.C. to learn about this.
- F2 Edit Press this button to show three additional buttons to edit the track: F3/Delete, F4/Copy, and F5/Move (all described below).
- F3 Track Press this button to select the track you are currently viewing in the List Editor.
- **F4 Nudge** Press this button to enable or disable the **Nudge** feature. When enabled, you can shift the event forward or backward by the length of the current time division. See *below* to learn how to use this.
- **F5** Insert Press this button to show the Insert Event screen, which contains parameters you can use to create an event in the track (described *below*).
- **F6 Play** Press this button to play the currently selected event. This works with note events only.

To insert an event, press F5/Insert to open the Insert Event screen.

Time is the position of the event you want to insert (in bars, beats, and ticks).

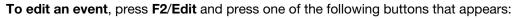
Type is the type of event you want to insert: Note, Program Automation, Program Mixer, Track Automation, or Effect Automation.

Pad(Note) This is available when Type is set to Note or Program Automation.

- Effect is the name of the effect and the number of its insert slot. This is available when Type is set to Effect Automation.
- Parameter is the type of modifier used via automation. This is available when Type is set to Program Automation, Program Mixer, Track Automation, or Effect Automation.

F4/Close returns to the previous screen without inserting the event.

F5/Do It inserts the event and returns to the previous screen.



F2/Edit returns to the previous screen.

F3/Delete deletes the currently selected event.

F4/Copy opens the Copy To screen.

Copy To is where the selected event in the track will be duplicated.

F3/Close returns to the previous screen without duplicating the event.

F4/Do It duplicates the event and returns to the previous screen.

F5/Move opens the Move To screen.

Move To is the desired location of the selected event in the track.

F3/Close returns to the previous screen without changing the time of the event.

F4/Do It changes the time of the event and returns to the previous screen.

Now is the time counter at the top of the screen, which shows the current playhead position. See **General Features** > **Now & Locators** to learn about this.

The View menu lets you select what type of events are shown in the list.

All: Select this option to show all event types.

Notes: Select this option to show only notes.

Aftertouch: Select this option to show only aftertouch messages.

Trk Automation: Select this option to show only track automation events.

Prg Automation: Select this option to show only program automation events.

Pitch Bend: Select this option to show only pitch bend events.

Control Change: Select this option to show only MIDI CC messages.

Prg Change: Select this option to show only MIDI program change messages.

Ch Pressure: Select this option to show only channel pressure messages.

Solo/Mute: Select this option to show only solo and mute events for tracks, programs, and pads.

Other: Select this option to show other types of events not listed above, such as pad or keygroup parameters.

The **BPM** in the upper-right corner of the screen is the current tempo.

To set the tempo, use the BPM field or press Tap Tempo in time with the desired tempo.

To set whether the sequence follows its own tempo or a master tempo, press Shift+Tap Tempo.

MPC

Time is the position of the event in bars, beats, and ticks.

To change the time of an event, do one of the following:

• Use the cursors to select the event, press F2/Edit, and then press F5/Move.

Move To is the desired location of the selected event in the track.

F3/Close returns to the previous screen without changing the time of the event.

F4/Do It changes the time of the event and returns to the previous screen.

• Use the **cursors** to select the event, press **F4/Nudge** so the button is lit, and then use the **left** and **right cursors** to shift the event forward or backward by the length of the current time division.

(1	Move	То	
	Time:001:01	1 :00	
	Move To: 001 : 01	: 00	
_ (<u>.</u>	Close	Do It	

Type is the type of event.

Note: a MIDI note

Trk: a track-related parameter:

Track Mixer Automation (Volume, Pan, Mute, Solo)

Track MIDI CC Automation (0-127)

Track Parameter Automation (Aftertouch, Pitchbend, Channel Pressure, or Program Change)

Prg: a program-related parameter:

Program Mixer Automation (Volume, Pan, Mute, Solo, or Send 1-4)

Program Parameter Automation (options vary based on the type of program)

Pad: a pad-related parameter:

Pad/Keygroup Mixer Automation (Level, Pan, Pad Mute, Pad Solo, or Send 1-4)

Pad/Keygroup Parameter Automation (options vary based on the type of program)

FX: an effect-related parameter:

Program Insert Effect Automation (options vary based on the effect)

Pad/Keygroup Insert Effect Automation (options vary based on the effect)

Pad/Note is the pad and/or corresponding MIDI note number. For drum programs, you will see the pad number. For keygroup programs, plugin programs, and midi programs, you will see the note.

To change the pad/note of a note event, use the cursors to select its Pad/Note value, and then use the data dial or -/+ buttons to change it.

Length is the length of the note event in ticks. This is shown only for note events.

To change the length of a note event, use the cursors to select its Length value, and then use the data dial or -/+ buttons to change it. You can use the numeric keypad to enter a number and then press Enter to confirm it.



Vel is the velocity of the note event. This is shown only for note events.

To change the velocity of a note event, use the cursors to select its Vel value, and then use the data dial or -/+ buttons to change it. You can use the numeric keypad to enter a number and then press Enter to confirm it.

Mod Type/Value is the type of modifier used via automation and the automation value.

To change the automation value of an event, use the cursors to select its Value, and then use the data dial or -/+ buttons to change it. You can use the numeric keypad to enter a number and then press Enter to confirm it.

To view the List Editor Settings, press Window.

(*****	List Editor Settings	
Follow H	Now Position: <mark>Off</mark>	
	Back	

Use the Follow Now Position field to set how the screen behaves relative to the audio playhead during playback.

Scroll: The list will scroll along in the background while keeping the audio playhead centered.

Off: The list will not move during playback.

Faster Attack for Amp Envelopes

In the amp envelope of a drum program or keygroup program, an attack value of **0** now produces a much faster response, thus making your drum hits even punchier than before. (You can set the attack value in Program Edit Mode. See *Operation > Modes > Program Edit Mode > Drum Programs* and *Keygroup Programs* to learn more.)

Important: Any drum or keygroup programs that you created and saved before this update will load in MPC 2.1 with an attack value of **1** to ensure backwards compatibility.

Updates in MPC 2.3

New Features

Arpeggiator

MPC now includes a full-featured arpeggiator and phrase player for melodic program types.

To open the Arpeggiator settings:

- 1. Set the current track type to Plugin, Keygroup, MIDI, or CV.
- 2. Press and hold the Note Repeat button, then press F6/Arp.

Use the **cursors** to select each field, and then use the **data dial** or -/+ buttons to change the parameter. If the field is a number, you can use the **numeric keypad** to enter a number and then press **Enter** to confirm it.

F		Arpess	iator	
	Enabled: ON	Latch: OFF	Action: A	RPEGGIO
	Pattern: Up			
	Octaves: 1	Step: 1/16	Lensth: 5	i0%
	Swins: 50%		Vel:A	is Played
			Close	۱

Enable determines whether or not the arpeggiator feature is activated.

To enable or disable the Arpeggiator, set this field to On or Off (respectively).

Latch determines whether the arpeggiator will continue to run when notes are released.

To enable or disable latching, set this field to On or Off (respectively).

Action determines what kind of arpeggiator will be used and its functions. There are four types of arpeggiator function: Arpeggio, Note Repeat, Rhythm and Pattern.

To select the arpeggiator action, use this field. See below for a description of each action and its settings.

When the **Arpeggio** action is selected, hold down a chord and the arpeggiator will play a pattern based on the notes held.

Pattern determines how the arpeggiator triggers the held notes.

Octaves is how many octaves of the held notes the arpeggiator will cycle through, from 1-3.

Step is the note value of each arpeggiator step, from 1/1–1/64 beats, including T (triplet) variations.

Length is the length of the played note in each step, from 1–100%.

Swing is the amount of "shuffle" added to your beats, from 50% (no swing, "straight") to 75% (extreme).

Vel is the velocity of the played notes. Select As played, From first note, Accented, Full, 3/4, Half or 1/4.

When the Note Repeat action is selected, hold down a note or chord for traditional MPC note repeat behavior.

Step is the note value of each arpeggiator step, from 1/1–1/64 beats, including T (triplet) variations.

Length is the length of the played note in each step, from 1–100%.

Spread is the amount of timing spacing of the held note, creating a glissando effect.

Vel is the velocity of the played notes. Select As played, From first note, Accented, Full, 3/4, Half or 1/4.





When the **Rhythm** action is selected, hold down a chord and the arpeggiator will play the held notes in a rhythmic pattern.

Rhythm is the type of rhythm played.

Step is the note value of each arpeggiator step, from 1/1–1/64 beats, including T (triplet) variations.

Length is the length of the played note in each step, from 1–100%.

Spread is the amount of timing spacing of the held note, from 0-240, creating a glissando effect.

Vel is the velocity of the played notes. Select As played, From first note, Accented, Full, 3/4, Half or 1/4.

When the **Pattern** action is selected, hold down a single note to trigger a melodic phrase. As you change what note is held, the melodic phrase will be transposed.

Pattern is the type of pattern played.

Length is the length of the played note in each step, from 1–100%.

Vel is the velocity of the played notes. Select As played, From first note, Accented, Full, 3/4, Half or 1/4.

To close the arpeggiator settings, press F4/Close.

Pad Perform Mode: Chromatic Type

You can now use Pad Perform Mode to set the pads to follow a chromatic layout. When the **Chromatic** type is selected, each pad is assigned a note, ascending by one semitone with each pad. Pads with notes in the key determined by the **Scale** will be lit, while pads with notes between the scale degrees will be unlit.

Q-Link Navigation Enhancements

Q-Link functionality has been enhanced in the following modes: Main Mode, Track View, Next Sequence, Grid Editor, and Audio Edit Mode.

Set the Q-Link Mode to Screen in these pages to access the following controls:

Use Q-Link Knob 2 to adjust the playhead position.

Use Q-Link Knob 3 to scroll through the waveform in the large waveform display.

Use **Q-Link Knob 4** to zoom in or zoom out at the playhead position.

Note: For MPC Studio, these are in the first Q-Link row.

Updates in MPC 2.4

New Features

Clip Program Improvements

The internal architecture of clip programs has been significantly improved. You can now play up to 16 clip programs at the same time. Clips will continue to play when changing tracks or sequences, allowing you to seamlessly incorporate them into live performance.

Next Sequence Mode

Next Sequence Mode now remembers the next sequence change when switching to another mode.

Additional Transport Controls

You can now hold **Shift** and press **Stop** to return the playhead to the beginning of the timeline.

New Features

Erase Parameters

From the Erase window, you can now erase selected automation parameters.

	Enase			
Sequence: 001	-Sequence 01	Track: 00	2 – Thack	02
Time:001	:01 :00	To: 00	9:01:0	30
Erase: Auto				
Parameter: TRK	Pan			
		Back	Do It]

- 1. While the sequence is stopped, press the **Erase** button to open the Erase screen.
- 2. Set the Erase field to Automation.
- 3. By default, the **Parameter** field is set to **All**. Use the **data dial** or -/+ buttons to scroll through the list of all parameters that have been automated on the current track.
- 4. Select the parameter you would like to erase, and then press **F5/Do It** to erase the automation.

Workflow Enhancements

The Keep or Discard screen in Sample Record Mode now has function button assignments to Save or Edit the recorded sample.

In Sequence Edit Mode, you can now copy events from individual or multiple pads or notes from the Copy Events screen.

Timing Correct can now be applied to all tracks by pressing the **All Track** function button in the **Timing Correct** window.

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Updates in MPC 2.8

New Features

MIDI Improvements

MPC now supports multi-MIDI control, making MPC the ultimate MIDI sequencing studio centerpiece. In addition to getting the most out of the MIDI DIN ports on your MPC hardware, you can now use your hardware's USB ports to connect class-compliant MIDI devices such as USB keyboards, MIDI interfaces and USB-to-CV modules, allowing you to dramatically increase the MIDI input and output capabilities of MPC.

Configuring MIDI

To configure the MIDI Inputs and Outputs, go to Preferences > MIDI / Sync in the MPC software.

To see the user guide in the MPC software for more information, click the **Help** menu, select **MPC Help**, and select **MPC User Manual**.

MIDI Recording

For recording, MIDI Tracks now have an Input Monitor setting with four states:

- Off: The track's MIDI input is not monitored, and playback of recorded events will be heard. This setting is useful when using keyboards with Local Control active.
- In: The track's MIDI input is always monitored regardless of the track's Record Arm state, and playback from recorded events will not be heard.
- Auto: The track's MIDI input is monitored when the track is record armed, and playback of recorded events will be heard.
- Merge: The track's MIDI input is always monitored, and playback of recorded events will be heard.

Global Timing Correct On/Off

The Timing Correct (TC) settings now have a convenient Global Timing Correct On/Off option.

Main Button Track Select

You can now press and hold the **Main** button to view the Select Track window where you can select a track by pressing the corresponding pad.

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