



DJX-II
Owner's Manual

SPECIAL MESSAGE SECTION

This product utilizes batteries or an external power supply (adapter). DO NOT connect this product to any power supply or adapter other than one described in the manual, on the name plate, or specifically recommended by Yamaha.

WARNING: Do not place this product in a position where anyone could walk on, trip over, or roll anything over power or connecting cords of any kind. The use of an extension cord is not recommended! IF you must use an extension cord, the minimum wire size for a 25' cord (or less) is 18 AWG. NOTE: The smaller the AWG number, the larger the current handling capacity. For longer extension cords, consult a local electrician.

This product should be used only with the components supplied or; a cart, rack, or stand that is recommended by Yamaha. If a cart, etc., is used, please observe all safety markings and instructions that accompany the accessory product.

SPECIFICATIONS SUBJECT TO CHANGE:

The information contained in this manual is believed to be correct at the time of printing. However, Yamaha reserves the right to change or modify any of the specifications without notice or obligation to update existing units.

This product, either alone or in combination with an amplifier and headphones or speaker/s, may be capable of producing sound levels that could cause permanent hearing loss. DO NOT operate for long periods of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.

IMPORTANT: The louder the sound, the shorter the time period before damage occurs.

Some Yamaha products may have benches and / or accessory mounting fixtures that are either supplied with the product or as optional accessories. Some of these items are designed to be dealer assembled or installed. Please make sure that benches are stable and any optional fixtures (where applicable) are well secured BEFORE using.

Benches supplied by Yamaha are designed for seating only. No other uses are recommended.

NOTICE:

Service charges incurred due to a lack of knowledge relating to how a function or effect works (when the unit is operating as designed) are not covered by the manufacturer's warranty, and are therefore the owners responsibility. Please study this manual carefully and consult your dealer before requesting service.

ENVIRONMENTAL ISSUES:

Yamaha strives to produce products that are both user safe and environmentally friendly. We sincerely believe that our products and the production methods used to produce them, meet these goals. In keeping with both the letter and the spirit of the law, we want you to be aware of the following:

Battery Notice:

This product MAY contain a small non-rechargeable battery which (if applicable) is soldered in place. The average life span of this type of battery is approximately five years. When replacement becomes necessary, contact a qualified service representative to perform the replacement.

This product may also use "household" type batteries. Some of these may be rechargeable. Make sure that the battery being charged is a rechargeable type and that the charger is intended for the battery being charged.

When installing batteries, do not mix batteries with new, or with batteries of a different type. Batteries MUST be installed correctly. Mismatches or incorrect installation may result in overheating and battery case rupture.

Warning:

Do not attempt to disassemble, or incinerate any battery. Keep all batteries away from children. Dispose of used batteries promptly and as regulated by the laws in your area. Note: Check with any retailer of household type batteries in your area for battery disposal information.

Disposal Notice:

Should this product become damaged beyond repair, or for some reason its useful life is considered to be at an end, please observe all local, state, and federal regulations that relate to the disposal of products that contain lead, batteries, plastics, etc. If your dealer is unable to assist you, please contact Yamaha directly.

NAME PLATE LOCATION:

The name plate is located on the bottom of the product. The model number, serial number, power requirements, etc., are located on this plate. You should record the model number, serial number, and the date of purchase in the spaces provided below and retain this manual as a permanent record of your purchase.

Model _____

Serial No. _____

Purchase Date _____

PLEASE KEEP THIS MANUAL

PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

* Please keep these precautions in a safe place for future reference.

WARNING

Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following:

- Do not open the instrument or attempt to disassemble the internal parts or modify them in any way. The instrument contains no user-serviceable parts. If it should appear to be malfunctioning, discontinue use immediately and have it inspected by qualified Yamaha service personnel.
- Do not expose the instrument to rain, use it near water or in damp or wet conditions, or place containers on it containing liquids which might spill into any openings.
- If the AC adaptor cord or plug becomes frayed or damaged, or if there is a sudden loss of sound during use of the instrument, or if any unusual smells or smoke should appear to be caused by it, immediately turn off the power switch, disconnect the adaptor plug from the outlet, and have the instrument inspected by qualified Yamaha service personnel.
- Use the specified adaptor (PA-5B, PA-5C or an equivalent recommended by Yamaha) only. Using the wrong adaptor can result in damage to the instrument or overheating.
- Before cleaning the instrument, always remove the electric plug from the outlet. Never insert or remove an electric plug with wet hands.
- Check the electric plug periodically and remove any dirt or dust which may have accumulated on it.

CAUTION

Always follow the basic precautions listed below to avoid the possibility of physical injury to you or others, or damage to the instrument or other property. These precautions include, but are not limited to, the following:

- Do not place the AC adaptor cord near heat sources such as heaters or radiators, and do not excessively bend or otherwise damage the cord, place heavy objects on it, or place it in a position where anyone could walk on, trip over, or roll anything over it.
- When removing the electric plug from the instrument or an outlet, always hold the plug itself and not the cord.
- Do not connect the instrument to an electrical outlet using a multiple-connector. Doing so can result in lower sound quality, or possibly cause overheating in the outlet.
- Unplug the AC power adaptor when not using the instrument, or during electrical storms.
- Always make sure all batteries are inserted in conformity with the +/- polarity markings. Failure to do so might result in overheating, fire, or battery fluid leakage.
- Always replace all batteries at the same time. Do not use new batteries together with old ones. Also, do not mix battery types, such as alkaline batteries with manganese batteries, or batteries from different makers, or different types of batteries from the same maker, since this can cause overheating, fire, or battery fluid leakage.
- Do not dispose of batteries in fire.
- Do not attempt to recharge batteries that are not intended to be charged.
- When the batteries run out, or if the instrument is not to be used for a long time, remove the batteries from the instrument to prevent possible leakage of the battery fluid.
- Keep batteries away from children.
- If the batteries do leak, avoid contact with the leaked fluid. If the battery fluid should come in contact with your eyes, mouth, or skin, wash immediately with water and consult a doctor. Battery fluid is corrosive and may possibly cause loss of sight or chemical burns.
- Before connecting the instrument to other electronic components, turn off the power for all components. Before turning the power on or off for all components, set all volume levels to minimum. Also, be sure to set the volumes of all components at their minimum levels and gradually raise the volume controls while playing the instrument to set the desired listening level.
- Do not expose the instrument to excessive dust or vibrations, or extreme cold or heat (such as in direct sunlight, near a heater, or in a car during the day) to prevent the possibility of panel disfiguration or damage to the internal components.
- Do not use the instrument near other electrical products such as televisions, radios, or speakers, since this might cause interference which can affect proper operation of the other products.
- Do not place the instrument in an unstable position where it might accidentally fall over.
- Before moving the instrument, remove all connected adaptor and other cables.
- When cleaning the instrument, use a soft, dry cloth. Do not use paint thinners, solvents, cleaning fluids, or chemical-impregnated wiping cloths. Also, do not place vinyl, plastic or rubber objects on the instrument, since this might discolor the panel or keyboard.
- Do not rest your weight on, or place heavy objects on the instrument, and do not use excessive force on the buttons, switches or connectors.
- Use only the stand specified for the instrument. When attaching the stand or rack, use the provided screws only. Failure to do so could cause damage to the internal components or result in the instrument falling over.
- Do not operate the instrument for a long period of time at a high or uncomfortable volume level, since this can cause permanent hearing loss. If you experience any hearing loss or ringing in the ears, consult a physician.

■ SAVING USER DATA

- Always save data to an external device such as the Yamaha MIDI data filer MDF3 frequently, in order to help prevent the loss of important data due to a malfunction or user operating error.

Yamaha cannot be held responsible for damage caused by improper use or modifications to the instrument, or data that is lost or destroyed.

Always turn the power off when the instrument is not in use.

Make sure to discard used batteries according to local regulations.

Congratulations on your purchase of the Yamaha DJX-II!

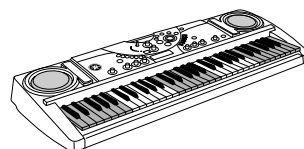
The DJX-II is a complete dance-music workstation that can be used both as a real-time performance instrument and a powerful production tool. Its intuitive interface makes real-time operation exceptionally easy — whether you have a DJ background or not!

Read this Owner's Manual carefully while playing your new DJX-II in order to take full advantage of its various features.

Packing List

Your DJX-II includes the following items:

- DJX-II
- Owner's Manual



How to Use the Manual

 What is the DJX-II?	page 5
Introduces the various DJX-II features.	
 Panel Controls	page 8
Use this section to find out about all of the buttons and controls of the DJX-II.	
 Setting Up	page 12
Explains how to connect up the power adaptor and how to install batteries.	
100 tips to be a DJ!	page 14
This section guides the user step-by-step through 100 important and useful tips in playing and creating great dance music. Like a game, each tip is a step up toward the goal of becoming a master DJ.	
 Appendix	page 74
This contains various important lists such as the Voice list, Preset Pattern list, MIDI data format and MIDI implementation chart.	
 Troubleshooting	page 74
If the DJX-II does not function as expected or you have some problem with the sound or operation, consult this section before calling your Yamaha dealer or service center. Most common problems and their solutions are covered here in a very simple and easy-to-understand way.	
 Glossary	page 78
This section covers various important words and terms related to both the DJX-II and to dance music in general.	
 Index	page 95
This section alphabetically lists virtually all topics, features, functions and operations with their respective page numbers, letting you quickly and easily find the information you need.	

The illustrations and displays as shown in this owner's manual are for instructional purposes only, and may be different from your instrument.



What is the DJX-II?



The new DJX-II is a digital DJ powerhouse!

If you've dreamed of creating and performing your own cutting-edge, phat 'n' funky dance music, you've come to the right place... The DJX-II is a fully digital DJ machine — a revolutionary new instrument that blends the reliability and clean sound of digital with stunningly powerful and easy-to-use analog-like controls.



No music knowledge or experience required!

If you've got great music in your head, but haven't had the training to bring it out to the real world, here's your chance! You don't need to know about chords, or how to read and play melodies — all you need is a good sense of rhythm, and the DJX-II can even help you develop that, too!



Let the DJX-II show you how to become a master DJ!

Whether you're a complete beginner or a turntable and mixing genius, the DJX-II can help you fully master the instrument. With the "100 Tips" section, you're guided step-by-step through 100 tips and trade secrets the pros use in playing and creating great dance music. Like a game, each tip is a step up toward the goal of becoming a master DJ.

Now let's take a look at the individual features and functions of the DJX-II.

- **Pattern Player**page 14
The DJX-II features a total of 70 dynamic rhythm Patterns, perfect for your DJ performance. Each Pattern has 10 different Variations.
- **Activator**page 18
The DJX-II features a total of 52 Activator kits or programs, each of which contains a variety of loops, sound effects, and one-shot phrases that can be triggered during a performance, while a Pattern is playing.
- **Powerful Effects**page 22
The DJX-II gives you a ton of amazing sonic control features, including a wide variety of stunning effects that can be manipulated in real time. Use the toggle switch and the knobs to tweak, warp and mangle your sound as you play.
- **Audio bpm**page 67
If you've got a favorite beat on CD or vinyl, you can easily sync it up to the DJX-II! The DJX-II "hears" the beat (from a connected CD player, MD player, etc.) and automatically locks into the rhythm by auto-adjusting the bpm of the DJX-II's Pattern.
- **Unique, Ultra High-quality Voices**page 28
The DJX-II also has an enormous variety of dynamic, in-your-face sounds, with 180 voices, 23 drum kits, and a special sampling voice for your own sample.
- **Sampler**page 53
The DJX-II has a powerful Sampling function that lets you record your own voice (via a microphone) or any sound from a CD or MD player, and play the sound (from the SAMPLE PADS or the keyboard). This lets you create your own original sound effects, loops, and one-shot phrases.
- **Performance Recorder**page 56
The DJX-II allows you to record your original performances (up to a total of six) to memory, expanding your live performance potential.
- **MIDI Compatibility for Even Greater DJ Performance Power**page 94
Grow your own Patterns! With MIDI, you can connect a computer to the DJX-II, and send Patterns you've created to the DJX-II as Pattern data. Then wail away with your new Patterns on the DJX-II!

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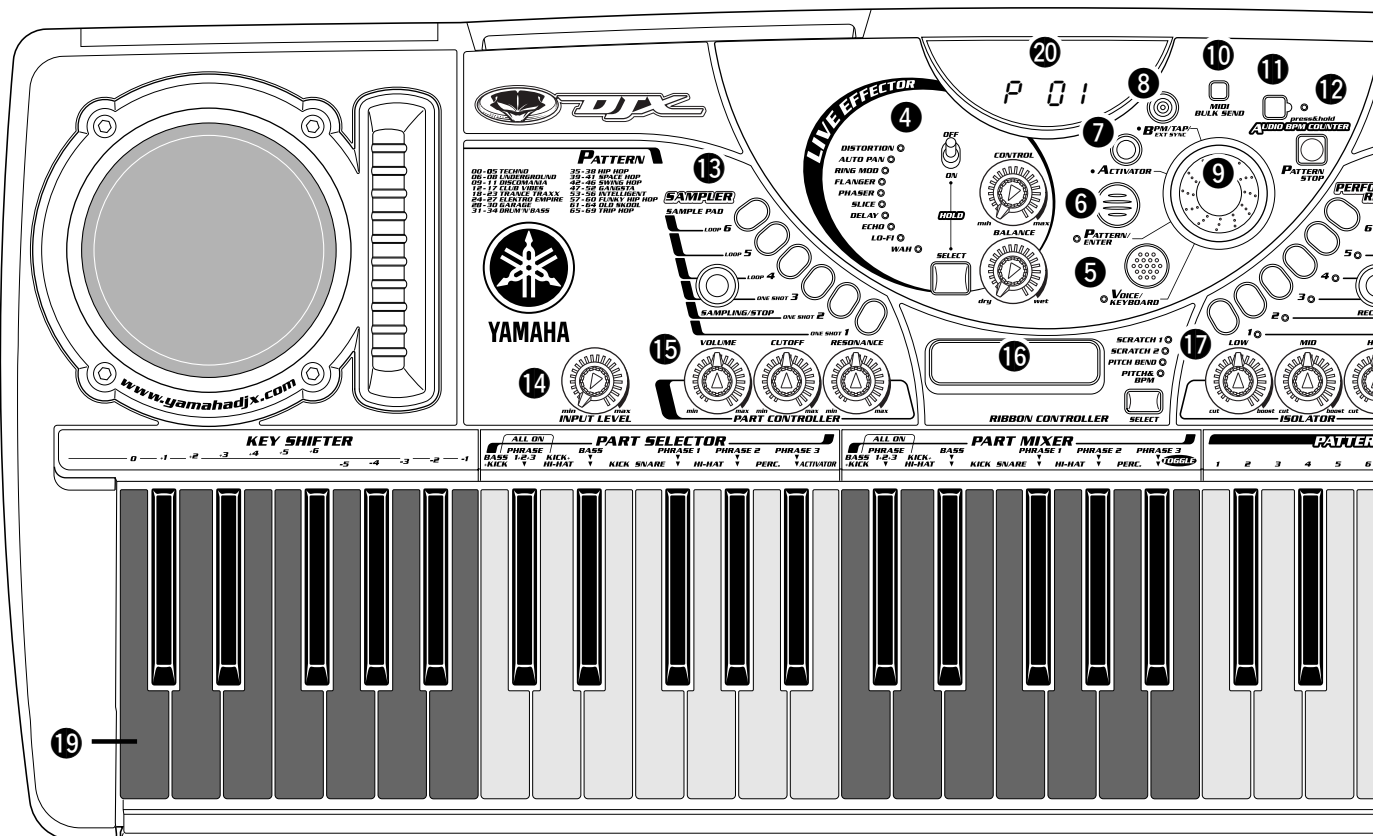
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Panel Controls

Top Panel



1 STANDBY/ON switch..... 13
Press to toggle the power on or off. (Power is on when the switch is pressed in.)

2 MASTER VOLUME 13
This determines the overall volume of the DJX-II.

3 DEMO button
This is used to play the Demo songs that showcase the sophisticated capabilities of the DJX-II.
Press this button to start/stop the Demo songs.
To select one of the Demo songs, hold the button down and simultaneously turn the data dial.

4 LIVE EFFECTOR section 22, 43
The DJX-II has a wide variety of built-in effects that affect the entire sound of the DJX-II and can be manipulated in real time. Use the SELECT button to call up one of the ten effects, then work the knobs to change the depth and amount of the effect.

5 VOICE/KEYBOARD button..... 10, 27
Pressing this button changes the DJX-II keyboard to operate in the Voice mode. When the power is turned on, the DJX-II is set by default to the Pattern mode; pressing this button changes to the Voice mode.

6 PATTERN/ENTER button 10, 16
This selects the Pattern mode.

The Pattern mode is the default mode when the power is turned on.

7 ACTIVATOR button..... 18
This is used to select the activator.

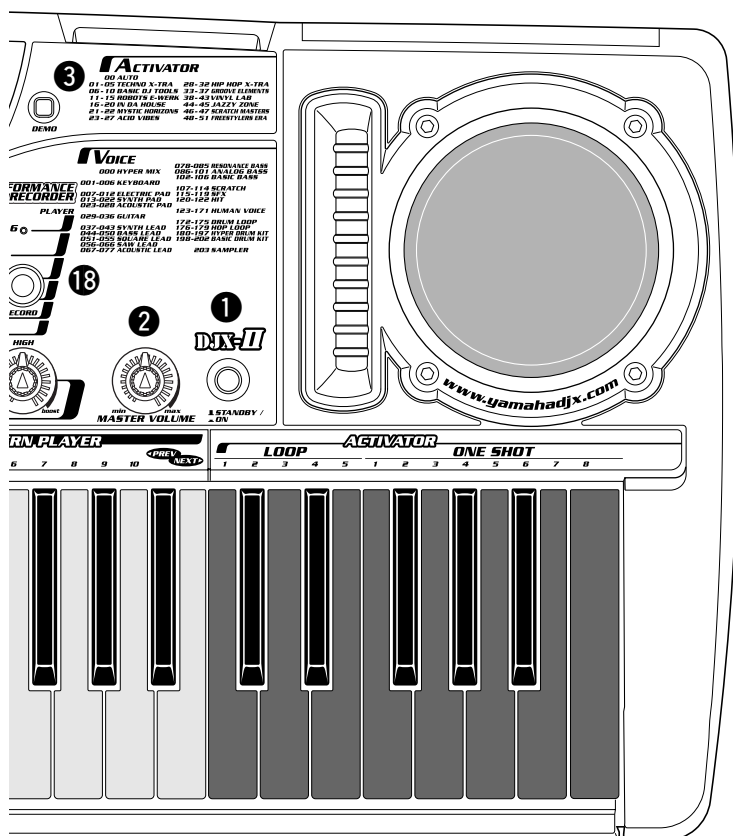
8 BPM/TAP button..... 39, 58
This is used to change the bpm (tempo) of the selected Pattern or Activator.

Each Pattern of the DJX-II has been programmed with a default or standard bpm (tempo); however, you can change the bpm to any value between 32.0 and 280.0 beats per minute.

This button also determines whether the DJX-II will use its own internal clock or whether it will use MIDI clock received from the MIDI IN connector.

9 Data dial..... 16
This is used to change the values and settings for the Pattern number, Activator number, bpm (tempo), and Voice number.

This is the DJX-II!



10 MIDI BULK SEND button71

The DJX-II allows you to send your original Performance Recorder and Sampler data to an external MIDI device as bulk data for storage and future recall. Pressing this button transmits the current bulk data.

11 AUDIO BPM COUNTER button67

The DJX-II has a powerful and convenient function that lets you synchronize external audio (such as from a CD or MD) with the Patterns of the DJX-II. Hold down this button and adjust the input level while playing the connected audio device. The DJX-II monitors the beat from the audio, and automatically locks into the rhythm by auto-adjusting the bpm of the DJX-II's Pattern. The extracted bpm value is indicated in the display.

12 PATTERN STOP button.....14

This button stops playback of the Patterns and Activator loops. Start the DJX-II's Patterns by pressing one of the PATTERN PLAYER keys and stop them by pressing the PATTERN STOP button.

13 SAMPLER button53

The DJX-II has a powerful Sampling function that lets you record your own voice (via a microphone) or the

sound from a CD or MD player, and play the sound (from the SAMPLE PADS or the keyboard).

Use the SAMPLING/STOP button to record (sample) the desired sound, then trigger the new sample by pressing one of SAMPLE PADS 1 - 6 or by playing the keyboard.

14 INPUT LEVEL knob53

Use this to adjust the input level of the external audio source. This affects the microphone or line level when using the Sampling feature; it also affects the level of the audio when using the Audio bpm Counter function (page 67).

15 PART CONTROLLER knobs34, 51

These are used to adjust the volume, filter cutoff, and filter resonance for individual parts of the Patterns.

16 RIBBON CONTROLLER38

This expressive tool lets you control and change the sound of the DJX-II by simply moving your finger along the surface. Use the SELECT button to select the effect you wish to control, then rub your finger back and forth along the ribbon to change the sound.

17 ISOLATOR knobs.....26

Use these knobs to change the timbre or tone of the sound, adjusting the level of each frequency range: Low, Mid, and High. Turning each knob to the right boosts the level at that frequency, while turning it to the left cuts it.

18 PERFORMANCE RECORDER buttons ...56

The DJX-II allows you to record your original performances as digital data, giving you even greater live performance power. Up to six separate performances can be recorded, using the RECORD and 1 - 6 buttons. To play back your recorded performance, simply press the appropriate button: 1 - 6.

19 Keyboard.....27

The extraordinarily versatile keyboard of the DJX-II has various different functions. Naturally, it can be used as a conventional keyboard, for playing melodies and chords. However, for the powerful DJ functions, the keyboard is a large bank of convenient buttons that can be used to trigger and control the various Patterns and sounds of the instrument.

20 Display

This shows important information on certain settings and values of the DJX-II.

Functions of the Keyboard

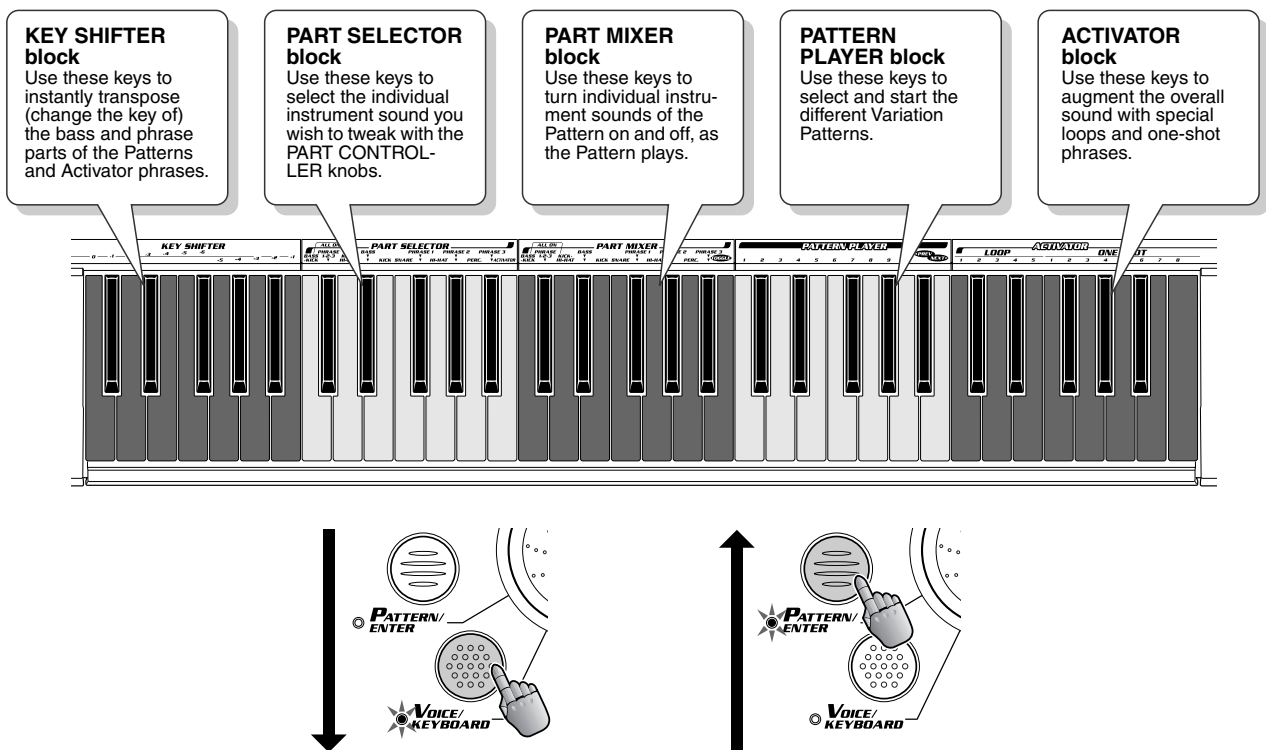
In a conventional keyboard instrument, the keys are used to play scales, melodies and chords. The DJX-II, however, is hardly a conventional instrument. For the dynamic DJ functions, it is better to think of the keyboard as a large bank of convenient buttons that are used to trigger and control the various Patterns and sounds of the instrument. Depending on the selected mode, the keyboard functions in one of two ways, as shown below.

■ Pattern Mode When the PATTERN/ENTER button is flashing:

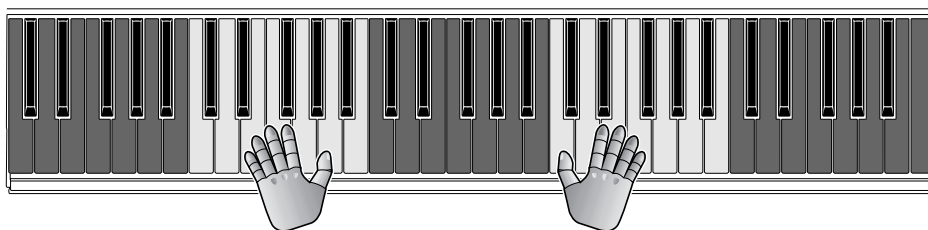
This is the default mode when the power is turned on.

The Pattern mode is used for selecting and playing Patterns.

In this mode, don't think of the keyboard as a series of pitched keys — think of it as a bank of buttons, pads and switches for controlling the Patterns and sounds!

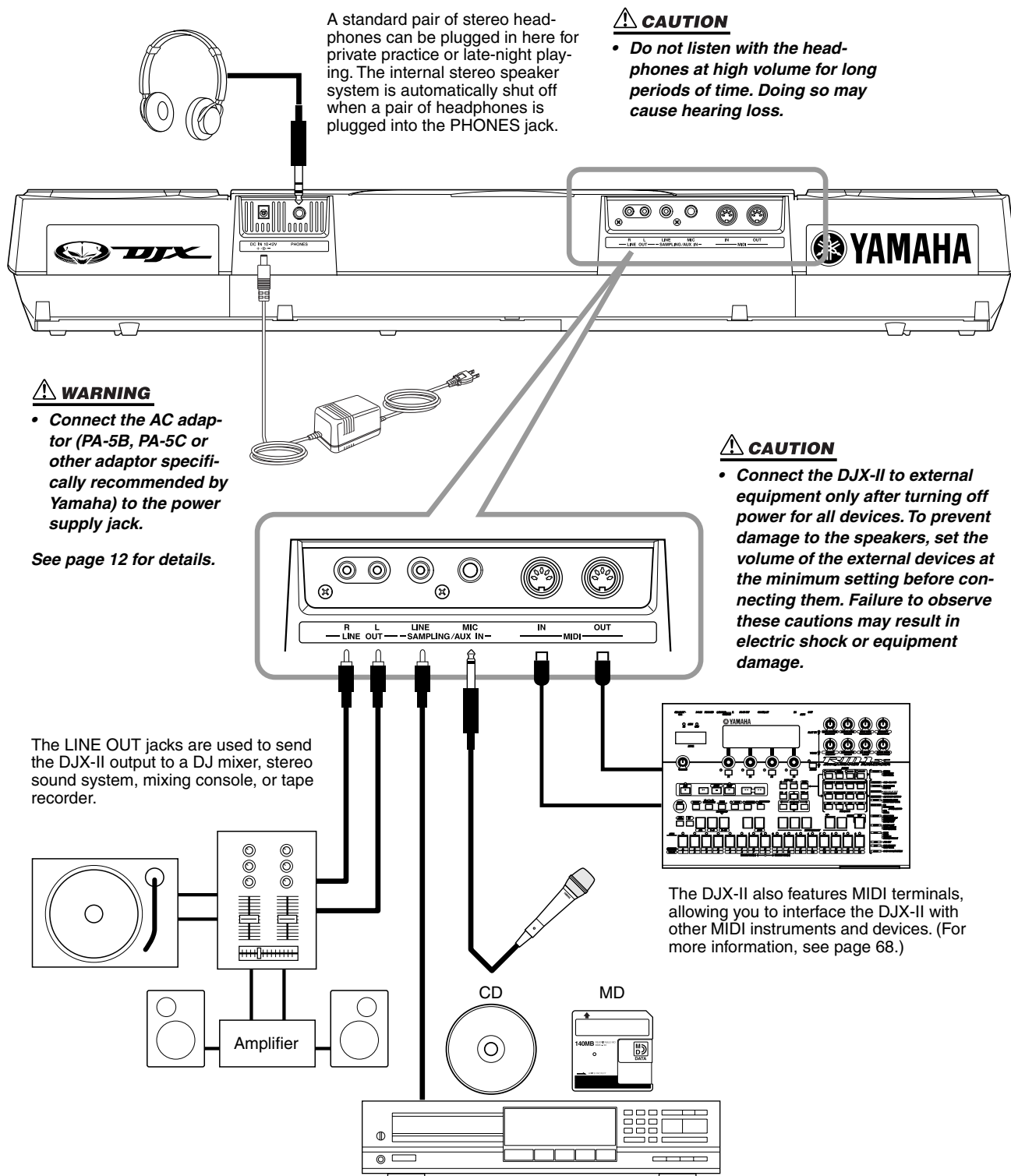


■ Keyboard Mode When the VOICE/KEYBOARD button is flashing:



In this mode, use the keyboard in the conventional way — for playing melodies and chords.

Rear Panel & Connections



These are for recording an external audio source in the Sampling functions (page 53). The MIC jack is for connection to a microphone for recording vocals and acoustic instruments. The LINE IN jack is for connecting to and recording a line level signal, such as that of a CD player or cassette deck.

CAUTION

- Never connect a line level signal (CD player, cassette deck, electronic instrument, etc.) into the MIC input jack! Doing this could damage the DJX-II and its Sampling functions.

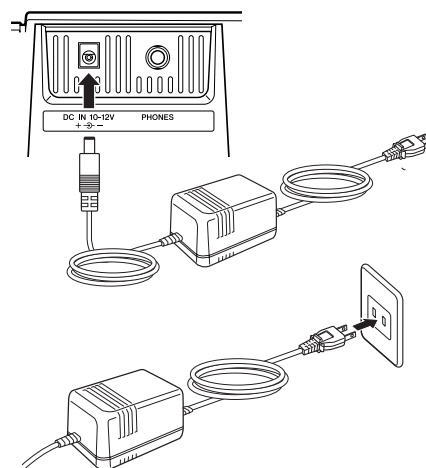
Setting Up (Power supply connections)

Although the DJX-II will run either from an optional AC adaptor or batteries, Yamaha recommends use of the more environmentally safe AC adaptor. Follow the instructions below according to the power source you intend to use.

The batteries should be considered an auxiliary power source for data backup (page 13).

■ Using An Optional AC Power Adaptor •••••

- 1** Make sure that the **STANDBY/ON** switch of the DJX-II is set to **STANDBY**.
- 2** Connect the AC adaptor (PA-5B, PA-5C or other adaptor specifically recommended by Yamaha) to the power supply jack.
- 3** Plug the AC adaptor into an AC outlet.



To disconnect the adaptor: Set the **STANDBY/ON** switch to **STANDBY**, then unplug the adaptor from the AC outlet, and then disconnect it from the DJX-II power supply jack.

⚠ WARNING

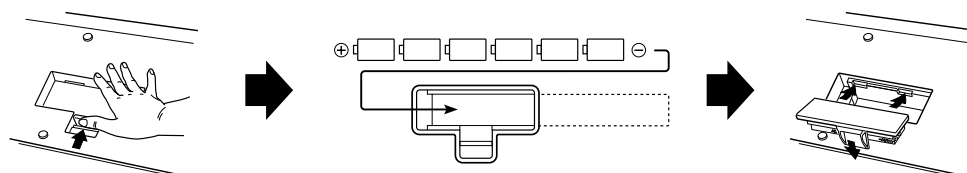
- Use **ONLY** a Yamaha PA-5B or PA-5C AC Power Adaptor (or other adaptor specifically recommended by Yamaha) to power your instrument from the AC mains. The use of other adaptors may result in irreparable damage to both the adaptor and the DJX-II.
- Unplug the AC Power Adaptor when not using the DJX-II, or during electrical storms.

■ Using Batteries •••••

For battery operation the DJX-II requires six 1.5V SUM-1, “D” size, R-20 or equivalent batteries. When the batteries need to be replaced, the volume may be reduced, the sound may be distorted, and other problems may occur. When this happens, turn the power off and replace the batteries.

Replace the batteries as follows:

- 1** Open the battery compartment cover located on the instrument's bottom panel.
- 2** Insert the six new batteries, being careful to follow the polarity markings on the inside of the compartment.
- 3** Replace the compartment cover, making sure that it locks firmly in place.



NOTE

- Plugging or unplugging the AC power adaptor while the batteries are installed will reset the DJX-II to the defaults.
- If you play the DJX-II with the volume at its maximum level when the batteries are used, the life of the batteries will be shorter.

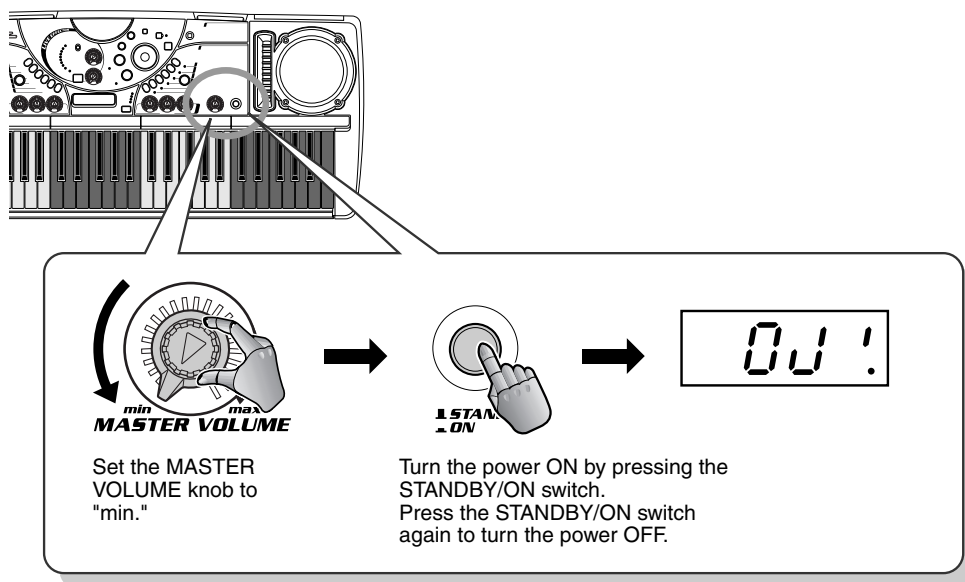
⚠ CAUTION

- When the batteries run down, replace them with a complete set of six new batteries. **NEVER** mix old and new batteries.
- Do not use different kinds of batteries (e.g. alkaline and manganese) at the same time.
- If the instrument is not to be in use for a long time, remove the batteries from it, in order to prevent possible fluid leakage from the battery.

Switching On the Power

Once you've set up your DJX-II, try turning the power on.

Make sure your sound system's main level/volume control(s) and the DJX-II volume control are turned all the way down prior to turning the power on.



CAUTION

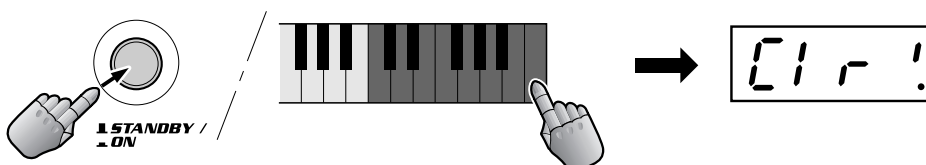
- Even when the switch is in the "STANDBY" position, electricity is still flowing to the instrument at the minimum level. When you are not using the DJX-II for a long time, make sure you unplug the AC power adaptor from the wall AC outlet, and/or remove the batteries from the instrument.

Data Backup & Initialization

Except for the data listed below, all DJX-II panel settings are reset to their initial settings whenever the power is turned on. The data listed below are backed up (i.e. retained in memory) as long as an AC adaptor is connected or a set of batteries is installed.

- User Pattern data..... page 72
- Sampling data page 53
- Performance Recorder data..... page 56

All data can be initialized and restored to the factory preset condition by turning on the power while holding the highest (rightmost) key on the keyboard. "Clr!" will appear briefly on the display.



CAUTION

- All settings listed above, will be erased and/or changed when the data initialization procedure is carried out.
- Carrying out the data initialization procedure will usually restore normal operation if the DJX-II freezes or begins to act erratically for any reason.

This is NOT an owner's manual! At least not an ordinary one. But, then again, the DJX-II is no ordinary instrument. It's packed with exciting, easy-to-use dance music features that instantly sets it apart from run-of-the-mill conventional instruments!

This collection of 100 hot tips shows you how to get the most out of your new DJX-II in the shortest time possible. It's like an expert DJ or mixer taking you by the hand and showing you the ropes, sharing all the tricks and techniques you need to be a master DJ yourself! It takes you from the bare-bones basics, to advanced power tips that get you mixing like a pro in no time!

So jump in!

◆ The Levels — Work your way up!

-Basic operations
-Intermediate functions
-Advanced tricks and techniques
-Power user features

Chapter 1

Pattern Player Basics

Start your DJ apprenticeship right here! The Patterns are the basic building blocks of the DJX-II sound — they're the rhythmic foundation for everything else on this dance machine.



Work out with the Patterns



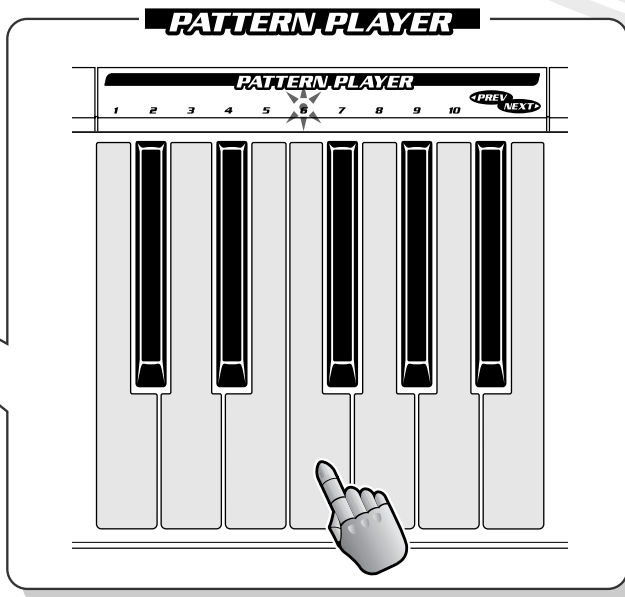
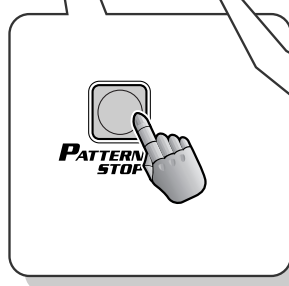
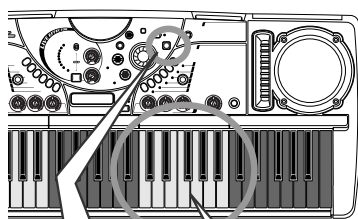
Here's where it all starts!

Hit one of the keys (1 - 10) in the PATTERN PLAYER section — and the Pattern starts immediately. Hitting another key instantly switches to a different Pattern (actually, a Variation on the main Pattern).

Since the DJX-II starts the Pattern right away, be careful to press the key in time with the rhythm.

Practice this a while — there's no better way to get your timing tight and develop a solid sense of rhythm!

To stop the Pattern, press PATTERN STOP.





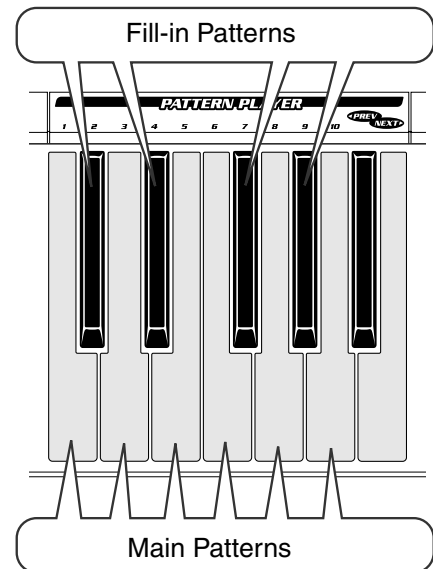
Tip 2 Mixing Main and Fill-in Patterns

Try mixing it up!

Each of the DJX-II's Patterns has ten different Variations. Play the main Patterns with the gray keys and the fill-in Patterns with the black keys. (Fill-in Patterns are usually used as dynamic breaks or transitions.)

In general, the higher the Variation number (1 - 10), the busier or more complex the Patterns become.

Listen carefully to each Pattern — remember how each of them sound — then play them one after another for your own special performance!



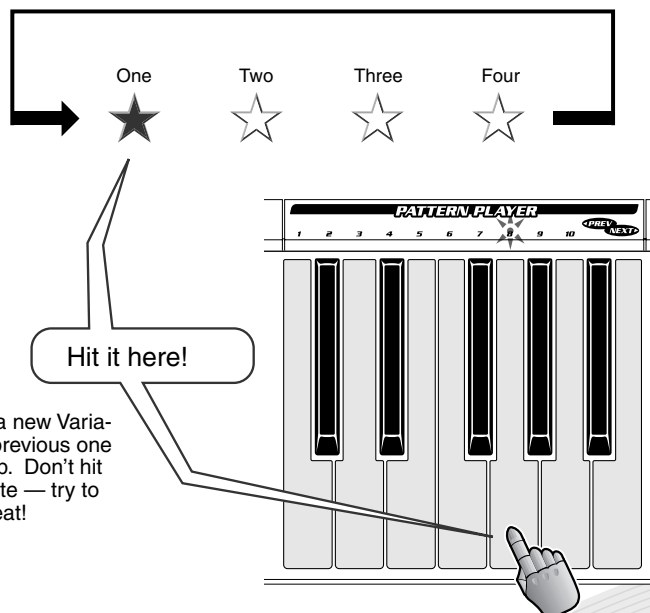
Tip 3 Come down on the "one"!

The key to great timing is knowing where the "one" is. And the "one" is the first beat in a four-beat Pattern. Another key to timing is feeling the downbeats (four downbeats to a Pattern). The DJX-II makes this easy to do!

Check this out:

While the Pattern is playing, the dot in the bpm display flashes rhythmically. (If the bpm display is not shown, press BPM/TAP.) Each flash indicates a downbeat.

Try hitting a different Pattern key on the "one" downbeat — when you've hit it right, you'll feel it!



This is the best place to start a new Variation Pattern — right after the previous one has reached the end of its loop. Don't hit the new key too early or too late — try to hit it right on the "one" downbeat!

**4**

Exploring other Patterns

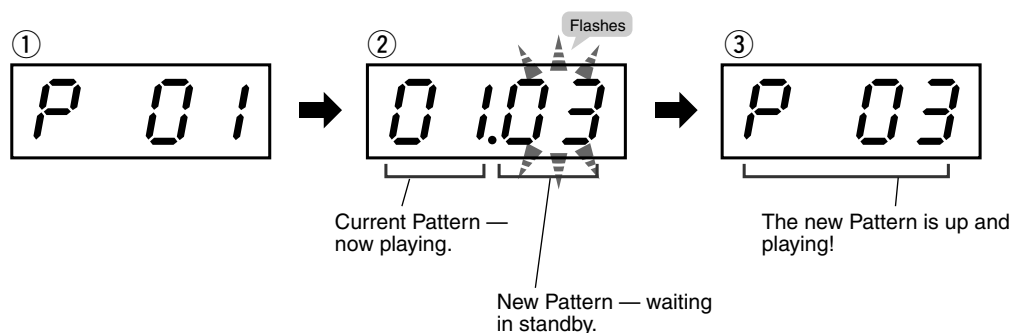
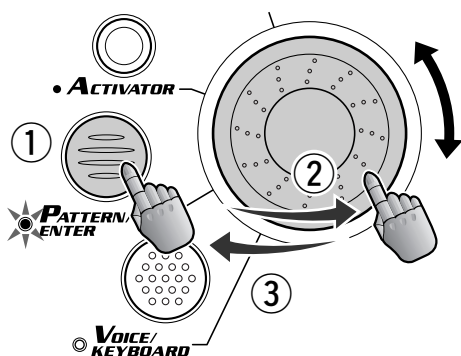


Try out some different Patterns now — the DJX-II has a ton of them!

To change the Pattern, first press PATTERN/ENTER then turn the dial.

Check the display to see what you're selecting. The two numbers on the left indicate the current Pattern number, and the numbers on the right indicate the new one.

But wait! The new Pattern doesn't actually start until you press PATTERN/ENTER again! Wait until the previous Pattern loops through, then press PATTERN/ENTER on the "one" downbeat (remember Tip 3?) — the Pattern changes immediately!



● Exploring other Patterns

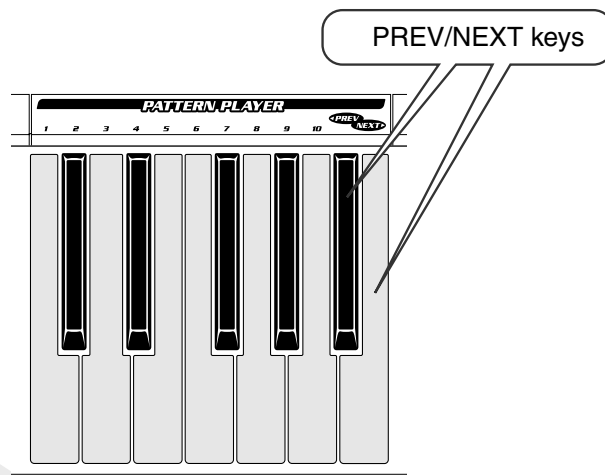
Category	#	Pattern Name	Comment
TECHNO	01	Japan Beatz	Experimental electronic madness — way cool!
	05	Detroit	Serious House music — from where it all started!
DISCOMANIA	11	Disco House	London's disco club scene.
CLUB VIBES	17	Hard House	Harder than you might expect...
DRUM'N'BASS	34	Jazz D&B	Straight from the heart of London — fast and stylish!
GANGSTA	50	Light	Feel it flow, a real Hip-hop cruiser from L.A.
	52	Female	Extra smooth 'n' silky R&B-style Hip-hop.
FUNKY HIP HOP	59	Club Funk	Funk with a Hip-hop flavor — real nice!
OLD SKOOL	62	Scratchin'	Really dark and hard Hip-hop — with a nice melody on Variation 10.
TRIP HOP	65	Deep	Dark and heavy Trip-hop, atmospheric and dreamy.



Tip 5 Go back, go forward

The NEXT and PREV keys let you select the next or the previous Pattern number. Hit the PREV key to go back 1 to the previous Pattern number. Hit the NEXT key to go forward 1 to the next Pattern number.

Watch your timing... The DJX-II changes the Pattern as soon as you hit the key!

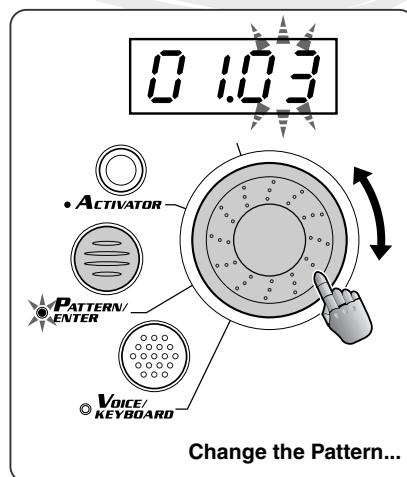


Tip 6 Keep the bpm steady!

Once you've started a Pattern, it's better to keep it playing at a steady bpm — unless you're aiming for special effects and sudden tempo changes.

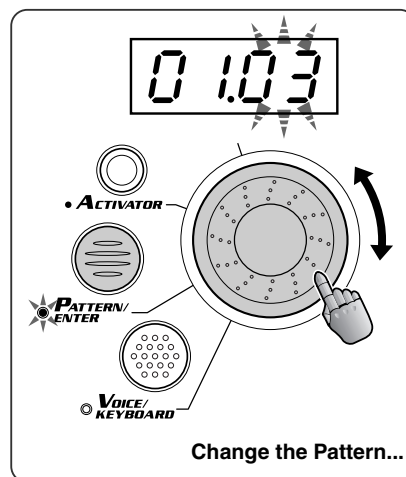
Actually, the DJX-II takes care of this for you — automatically! If you change Patterns while a Pattern is playing, the bpm setting stays the same. However, if you stop the Pattern and start a new one, the bpm is automatically reset to best suit the newly selected Pattern.

While the Pattern is running...



... and the bpm stays the same.

When the Pattern is stopped...



... and the bpm is set to best suit the selected Pattern.

Chapter 2

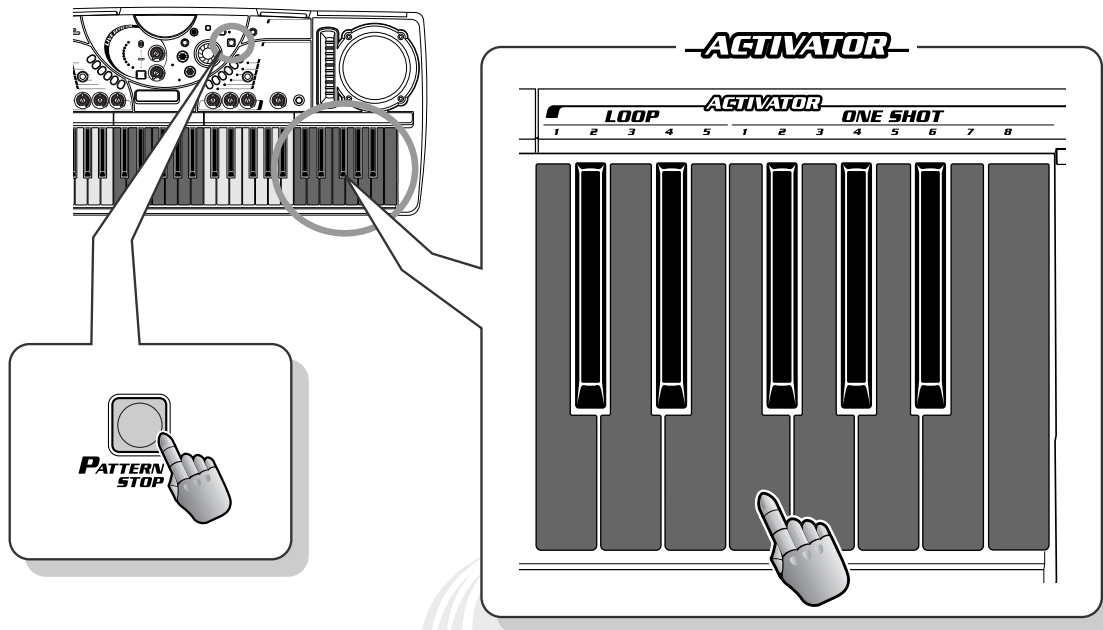
Activator Basics

The Activator section adds to the power of the Patterns. It gives you a whole new set of rhythms and sounds that you can use to augment, complement, and spice up the basic rhythms of the DJX-II.

Tip 7 Work out on the Activator



Try it out now! Just hit the One Shot 1 key in the Activator section — and the Activator sounds. Try hitting the Loop 1 key — and a special phrase starts. To stop the phrase manually, press the same key again or press PATTERN STOP.



Each of the keys has a different rhythm or sound — and, naturally, you can add these sounds while a Pattern is playing back. Improvise while the Pattern is playing, hitting different keys to create your own sound.

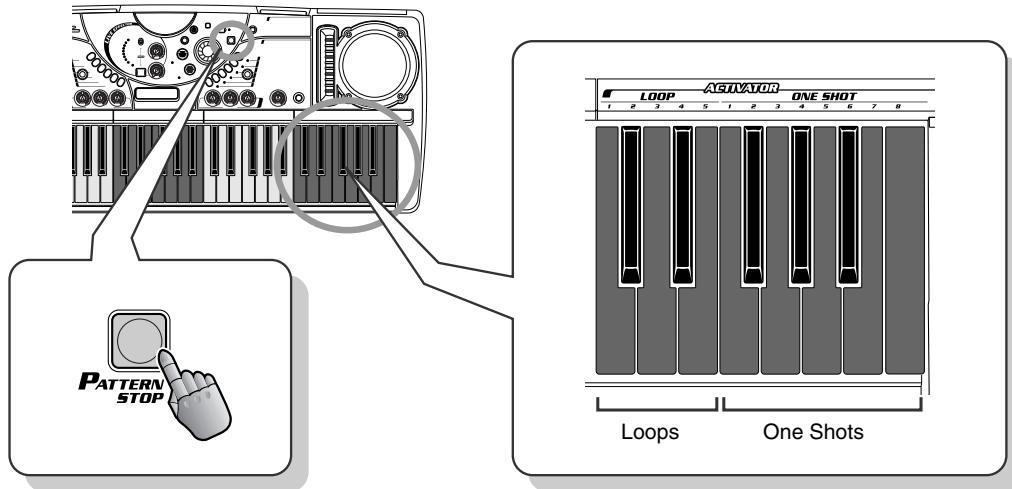
The DJX-II has a total of 52 different Activator kits — each kit with five Loops and eight One Shots. Go on to the next Tip and learn some more about these!

Tip 8 Loops and One Shots



The DJX-II has two kinds of Activator sounds: Loop and One Shot. You can guess from their names how these two types behave. A **Loop** sounds when you press one of the Loop keys (1 - 5), and the sound cycles indefinitely until you press the same key again. The **One Shots** (1 - 8) sound only while holding down the key and sound only once — unless the key is pressed repeatedly, of course. You can stop all Loop sounds simultaneously by pressing PATTERN STOP.

Build up your sound part-by-part and fly in the different Loops and One Shots — while the Pattern is playing!



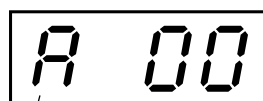
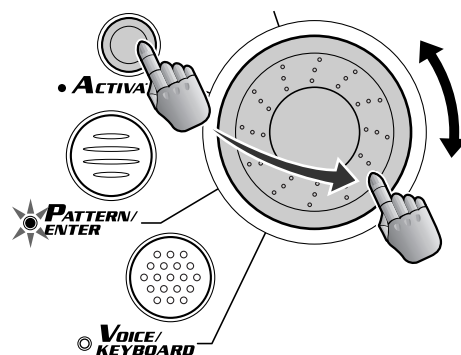
Tip 9 Explore the Activator kits!



As we pointed out above, the DJX-II is loaded with a variety of different Activator kits. Select a few of them now, and try out their sounds. Press ACTIVATOR (the display shows "A 00") and turn the dial to change the Activator number.

Activator number 00 is a special kit called "Auto." When Auto is selected, changing the Pattern automatically changes the Activator as well. The new Activator kit is the one that best matches the selected Pattern and its Variations.

In the remainder of the Tips, "Pattern x" will be abbreviated as "P x," "Variation x" as "V x," and "Activator x" as "A x."



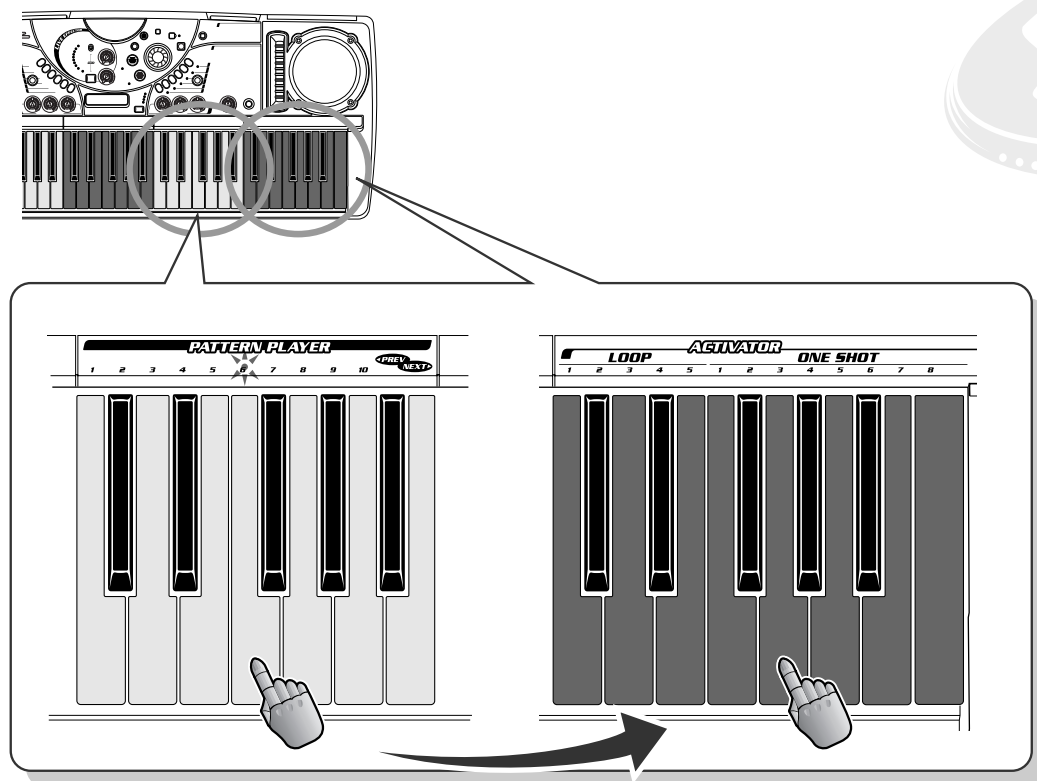
"A" stands for "Activator."

Currently selected number

Tip 10 Put 'em together!



Get a Pattern going, then play the One Shots rhythmically along with the Pattern. Get into the rhythm, feel the downbeats and layer the One Shots on top of the main beat.



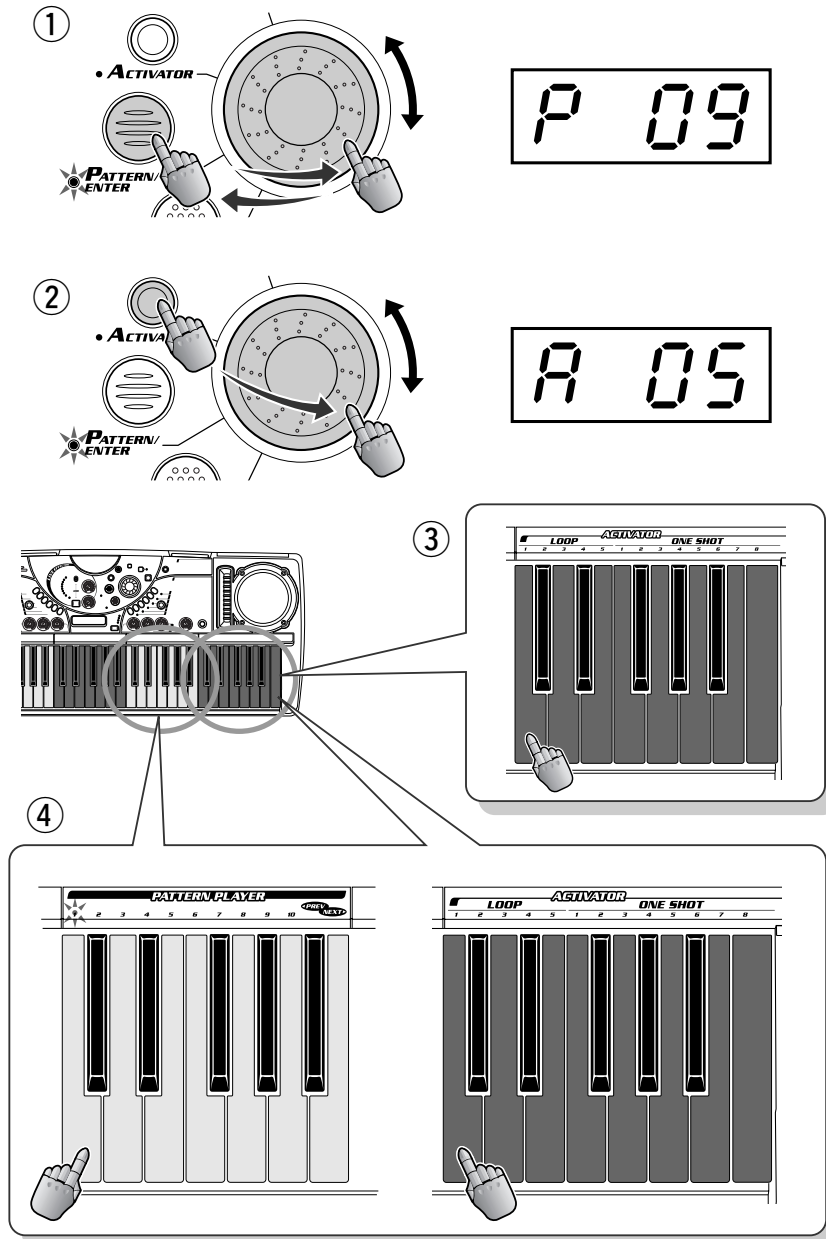
Tip 11 Activator intro textures



Part of the key to a great dance track is how it starts. The DJX-II gives you the power to craft your own intros, and get people moving right from the get-go!

Try this intro on for size! Here we'll have a drum fill lead into the main Pattern.

First, select P09 and A05, then press Activator Loop1. Let the Activator Loop play for two bars (eight beats), then stop the Loop and start the Pattern (V1) at the same time. To do this, press the same Loop key and the appropriate Pattern key simultaneously.



Tip 12 Activator Loop bpm



Here's a real convenient feature! You'll never have to worry about your loops drifting out of time — the DJX-II automatically matches up the bpm of the Activator Loops to the bpm of the Pattern.

However, the DJX-II can't sync up your loops if you don't play them on time! Be careful to hit the Loops right on the beat — just as you did with the Patterns.

Live Effector Basics

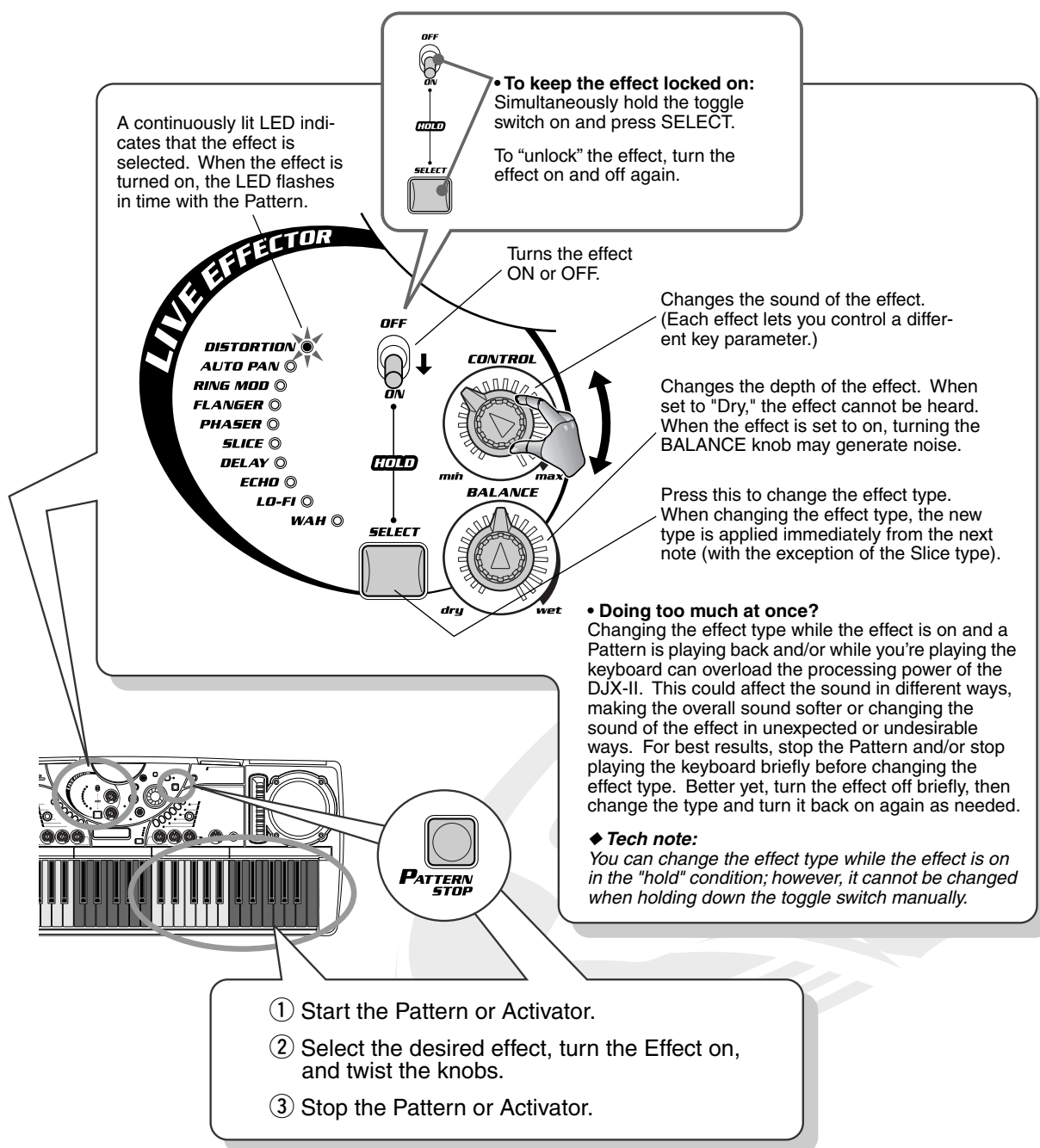
The effects of the DJX-II are more than just frosting on the cake — they're powerful tools that can completely transform the sounds and rhythms, and put a whole new spin on your tracks!

Tip 13 What is the Live Effector?



Here's where you can really get down and dirty with your beats!

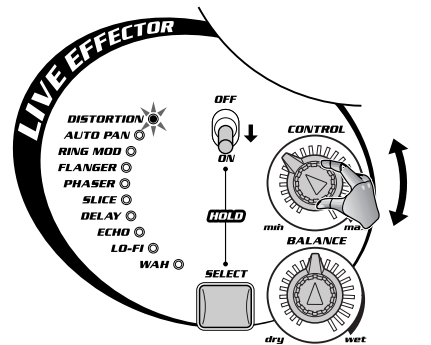
The Live Effector gives you a wide variety of real-time effects that let you mangle and munge the sound in wild and exciting ways. All of the sounds of the DJX-II — the Pattern, Activator, and Sampler (→ page 53) — are processed by these versatile sound shapers. You can turn the effects on and off in time with the rhythm, and adjust a pre-programmed key effect parameter and the balance (depth) of the effect in realtime as the Pattern plays.





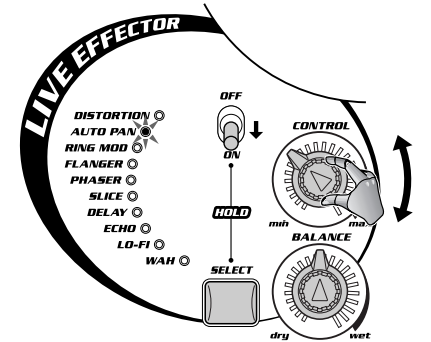
Tip 14 Distortion

This popular effect lets you distort the sound — from a soft grunge to a full-on metallic assault. Turn the CONTROL knob to the right for more crunch and bite.



Tip 15 Auto Pan

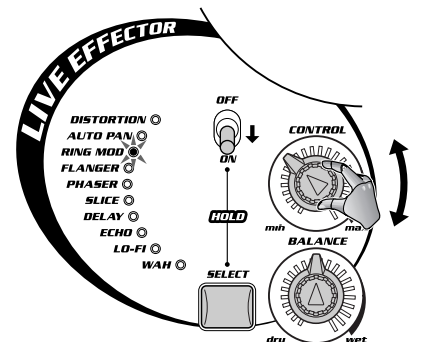
Get your sound moving in space! This effect shifts the sound in the stereo image back and forth between hard left and hard right. Setting the CONTROL knob toward max speeds up the panning so much, the sound seems to be modulated — like on a synthesizer!



Tip 16 Ring Modulation

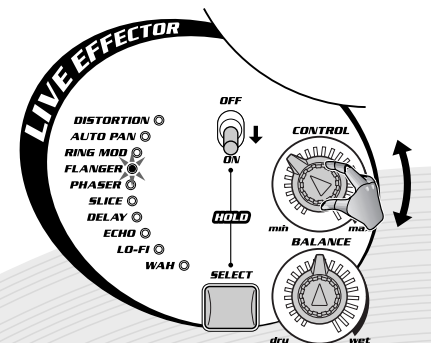
Here's an ultracool effect straight out of analog synthesizers! The Ring Modulator changes the sound dramatically by “overdriving” the oscillator — as set with the CONTROL knob. This effect completely destroys the original pitch of the sound and generates a whole new set of pitches and harmonics, for a massively dynamic metallic sound. Use the CONTROL knob to change the frequency of the oscillator.

Use this sparingly! You'll want to save this awesome, powerful effect for certain climactic parts of your performance — and then blow people away!



Tip 17 Flanger

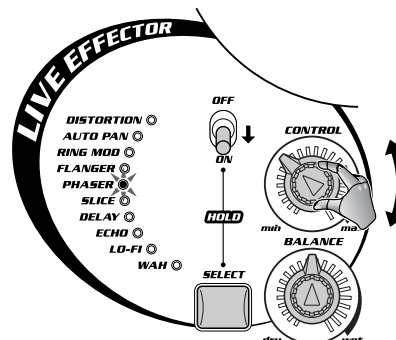
This modulation-based effect produces a “swishing” or “tunneling” sound. Changing the speed of the modulation with the CONTROL knob produces a characteristic metallic, sweeping effect — much like a jet airplane taking off.



Tip 18 Phaser



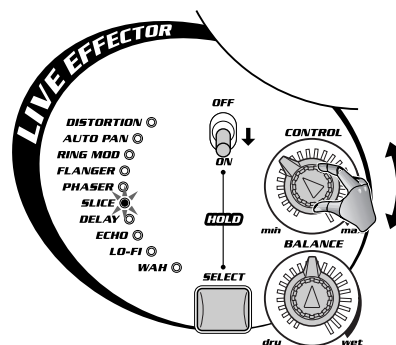
The Phaser effect is similar to Flanger (in Tip 17 above), but more subtle — not quite as dramatic. Phaser is good for adding a little bit of warm animation and movement to the sound. Use the CONTROL knob to change the speed of the modulation.



Tip 19 Slice



Chop up the beat, slice and dice — completely change the feel of the rhythm! Use the CONTROL knob on this happening effect to change the “slice” Patterns, and come up with new rhythms on the fly!

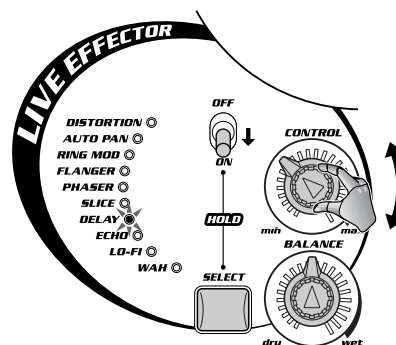


Tip 20 Delay



Delay is a popular effect that repeats the sound in rhythm. (There's a related Echo effect; see Tip 21 below.) And check this out — no rocket science needed! The DJX-II automatically syncs the delay time to the current bpm, so you don't even need to re-adjust the knob, even when the bpm is changed. Use the CONTROL knob to change the relative delay time to match the rhythmic effect you want. The DJX-II syncs to note values — 16th, 8th, 4th, triplet, etc.

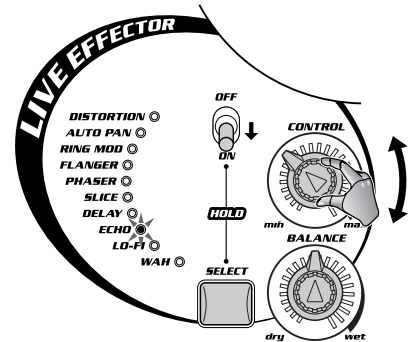
◆ **Be careful** — changing the delay time (by changing the CONTROL knob or bpm) may result in some noise.





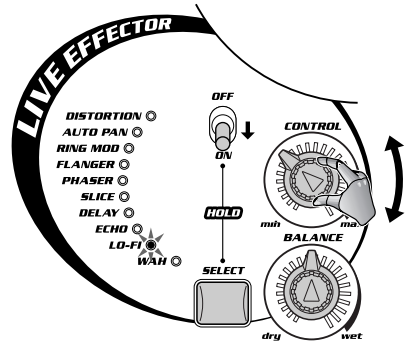
Tip 21 Echo

Like Delay (in Tip 20 above), Echo produces repeats of the sound for rhythmic effect. However, the CONTROL knob is used to change the number of repeats (also called “feedback”). Naturally, the DJX-II automatically syncs this effect to the bpm of the Pattern.



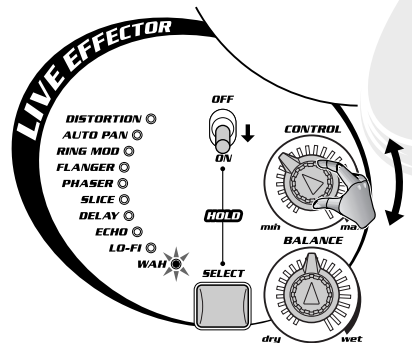
Tip 22 Lo-Fi

Need to grunge up your sound, but Distortion is too nasty for you? This useful effect lets you slap that retro, lo-rez sound onto your beats — just like they do in hip-hop, trip-hop and other styles. Lo-Fi gives the sound just a little bit of “dirt” — and lets you add a vintage analog-like touch to your performance.



Tip 23 Wah

Wah is a special moving filter effect that gives a funky feel to the sound. Use the CONTROL knob to change the speed of the filter motion. Setting this toward the maximum produces a trembling sound.



Chapter 4

Isolator Basics

More sonic control to you! The Isolator lets you tailor the sound just the way you want it — phat and round, thin and edgy, or big and banging!

Tip 24 Tweak the sound just right!

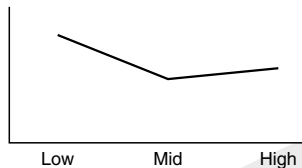
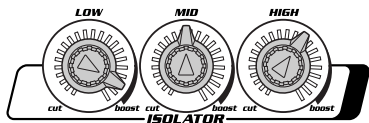
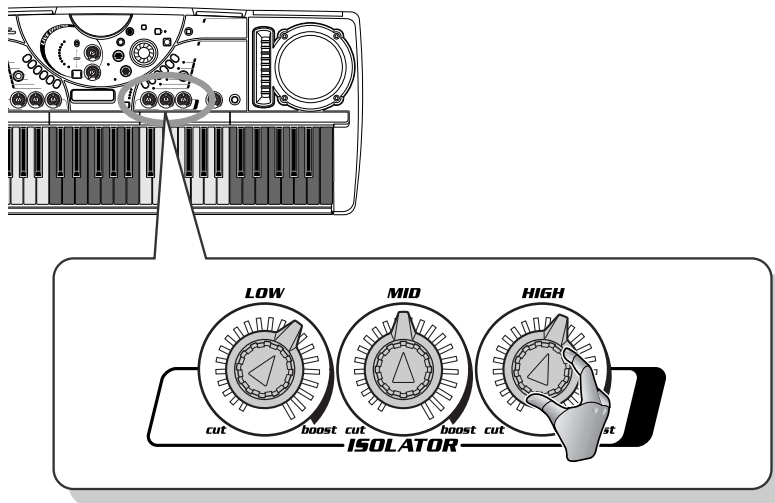


Need a beefier low end? Want to put some edge and shimmer in the top? Tweak these knobs to your heart's content, and get the sound just the way you want it! Try turning the Low and High knobs of the Isolator a little bit to the right, and make the sound more punchy. Try other settings as well to get the sound just right!

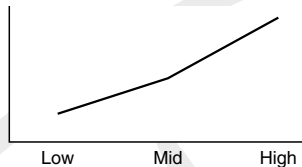
Each of these knobs boosts or cuts a general frequency band of the sound. Technically, the range for each knob is -12dB to +12dB.

◆ **Be careful with this, though** — if the Master Volume is at or near the max, boosting these frequencies can result in some nasty distortion!

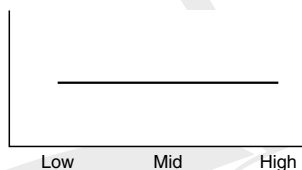
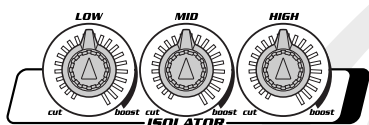
◆ **Helpful hint:** Avoid boosting the level (when possible). For example, if you want to emphasize the highs and lows, add a gentle mid cut instead.



Boosted low end, slightly crisper high end.



Very tinny sound — almost no bass, very bright and brittle high end.



Flat response — normal settings.

The Keyboard

Hidden among the many wonders of the DJX-II is — surprise, surprise! — a conventional keyboard.

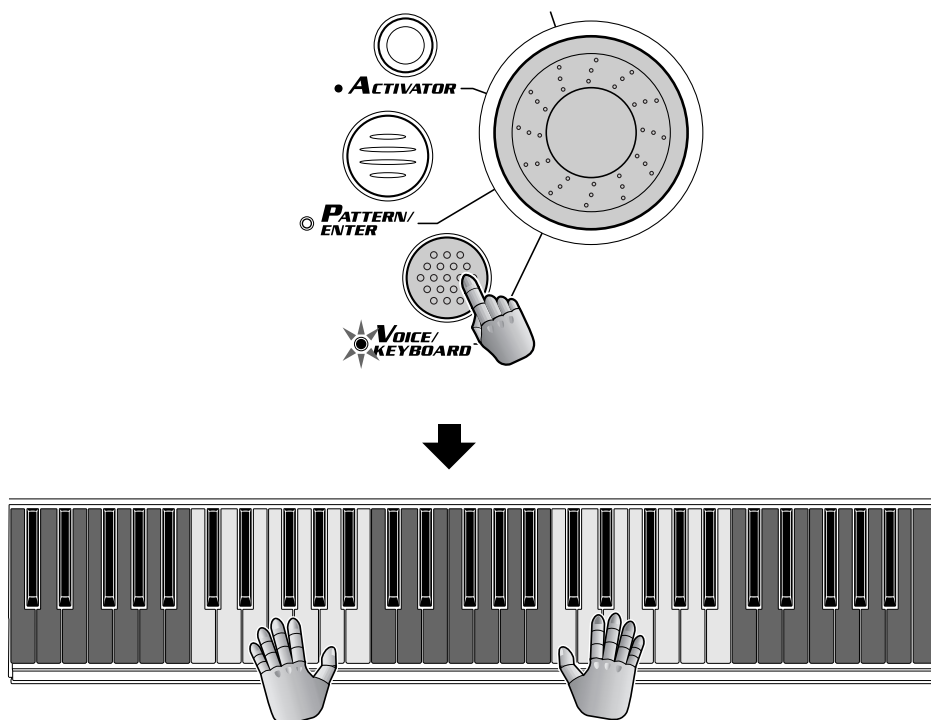
Tip 25 Play the keyboard



You may not have realized it, but the DJX-II also has a regular, conventional keyboard in addition to its DJ Pattern-based one.

Simply press VOICE/KEYBOARD to call up the Keyboard Mode, and play the keyboard normally. To switch back to the DJ functions — called the Pattern Control Mode — press PATTERN/ENTER.

Naturally, you can switch back and forth between the Keyboard Mode and Pattern Control Mode even while the Pattern and Activator are running.

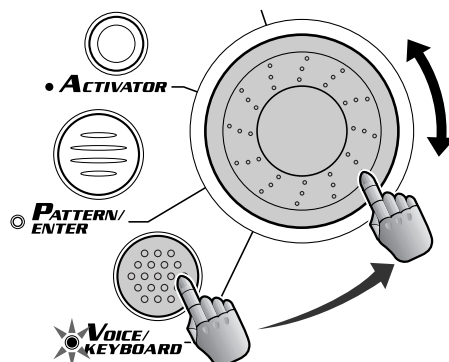


Tip 26 Try some different voices!



The DJX-II is chock full of a stunning variety of dynamic voices. Try some of them out right now!

To get at these voices and play them, press VOICE/KEYBOARD (the display shows “Vxxx”), then turn the dial.



Indicates the currently selected voice.

● Try some different voices!

Category	#	Voice Name	Comment
HYPER MIX	000	DJX-II	Various human voices from all over the world, plus scratches from the U.S.
SYNTH PAD	015	Wave 2001	Lush, atmospheric sweep pad, great for Trance and Chill-out styles.
GUITAR	036	Dist. 5th	Heavy, chainsaw-like power chords. Put some metal in your mix!
SQUARE LEAD	054	Square Lead 2	Classic analog synthesizer wave — with great low-end, atonal bass.
SAW LEAD	056	Break it	Brash and fat lead synth sound — perfect for Euro styles and Rave.
	065	Saw Lead 2	Slightly buzzy analog synth sound from the 80's.
ANALOG BASS	092	Hyper	Essential bass voice for all different styles
	094	Dist-Syn	Quirky and funky — great for Acid, and for adding some in-your-face punch!
DRUM LOOP	177	Drum Loop H2	A sliced Hip-hop loop (keys C3 - A3) — play them in any order and come up with your own happening rhythms!
HYPER DRUM KIT	192	DJX Kit	A different drum or percussion sound on almost every key — plus some wild sound effects! Mix and match, and make your own beats!

Chapter 6

Part Mixer Basics

Now that you've got your rhythm chops up to speed and some DJ tricks up your sleeve, it's time to work on the Parts! This chapter — and the two that follow — give you the keys to building interesting arrangements and instrumental textures. Not to mention some slammin' and smokin' tracks!

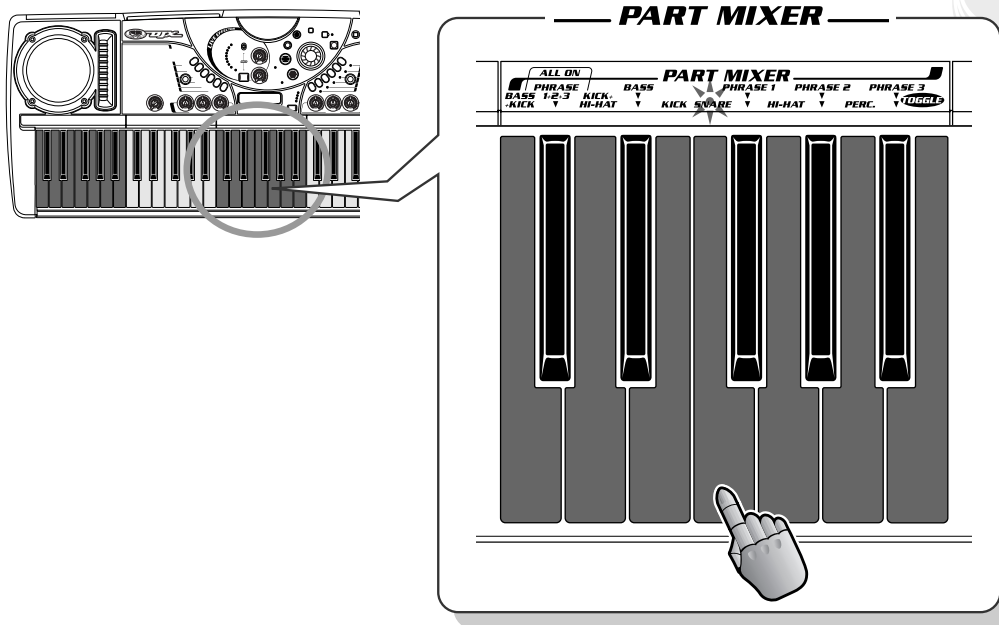
Tip 27 What is a Part?



The DJX-II Patterns are made up of eight different instrument Parts: Kick, Snare, Hi-Hat, Percussion, Bass, and Phrases 1 - 3. Each Part has its own unique function and sound within the rhythm.

The Part Mixer puts you in the producer's seat — it lets you instantly throw Parts in and drop Parts out in real time, allowing you to arrange on the fly!

The drum sounds (Kick, Snare, Hi-Hat, and Percussion) are assigned to the gray keys, whereas the pitched sounds (Bass, Phrases 1 - 3) are assigned to the black keys.



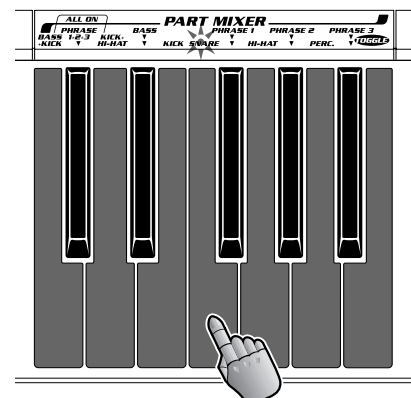
Tip 28 Take the console and remix the Parts!



Step up to the mixer and start juggling the arrangement around! In the Part Mixer section, each press of a key alternately sounds or mutes the respective instrument.

While the Pattern is playing, the lamp above the key flashes to indicate the Part is on. Turn it off (mute it), and the lamp goes off, too. Brilliantly easy to understand, and a great help while playing live — since you can see at a glance which parts are active!

Try it now! Press some of the keys. Turn the Parts on and off — and check out how each Part sounds, both on its own and with the others.

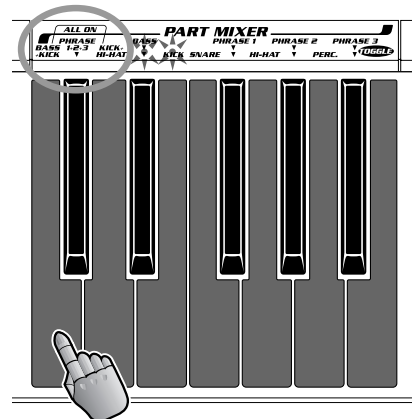


Tip 29 Combination keys



Sometimes you'll want to mute or sound a group of Parts at the same time. Rather than having to grab several keys simultaneously, you can use the special combination keys, and turn several parts on or off together — instantly!

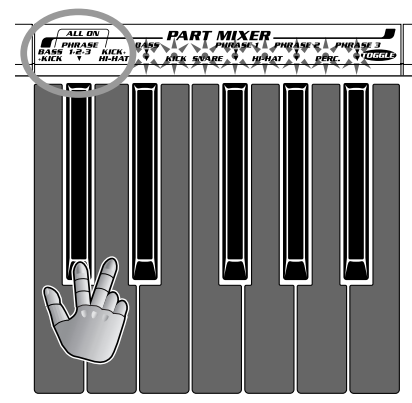
The combination keys are: BASS+KICK, PHRASE1+2+3, and KICK+HI-HAT. For example, if you press BASS+KICK, the Bass and Kick Parts switch on and all the other Parts turn off. Try using these convenient arranging keys in your own performance for dynamic breakdowns!



Tip 30 Turn them all on!



Here's a helpful tip! You can turn on all Parts instantly by simultaneously pressing BASS+KICK, PHRASE1+2+3, and KICK+HI-HAT together.

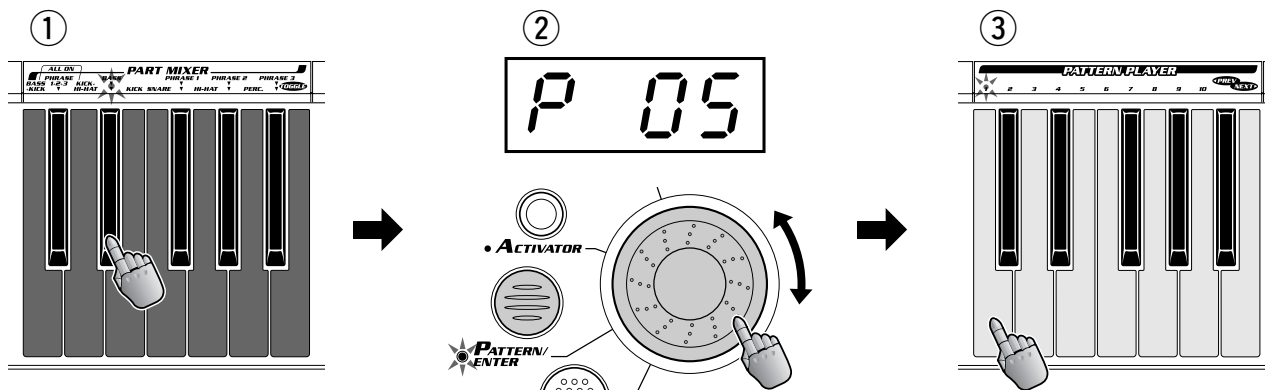


Tip 31 Extra texture!



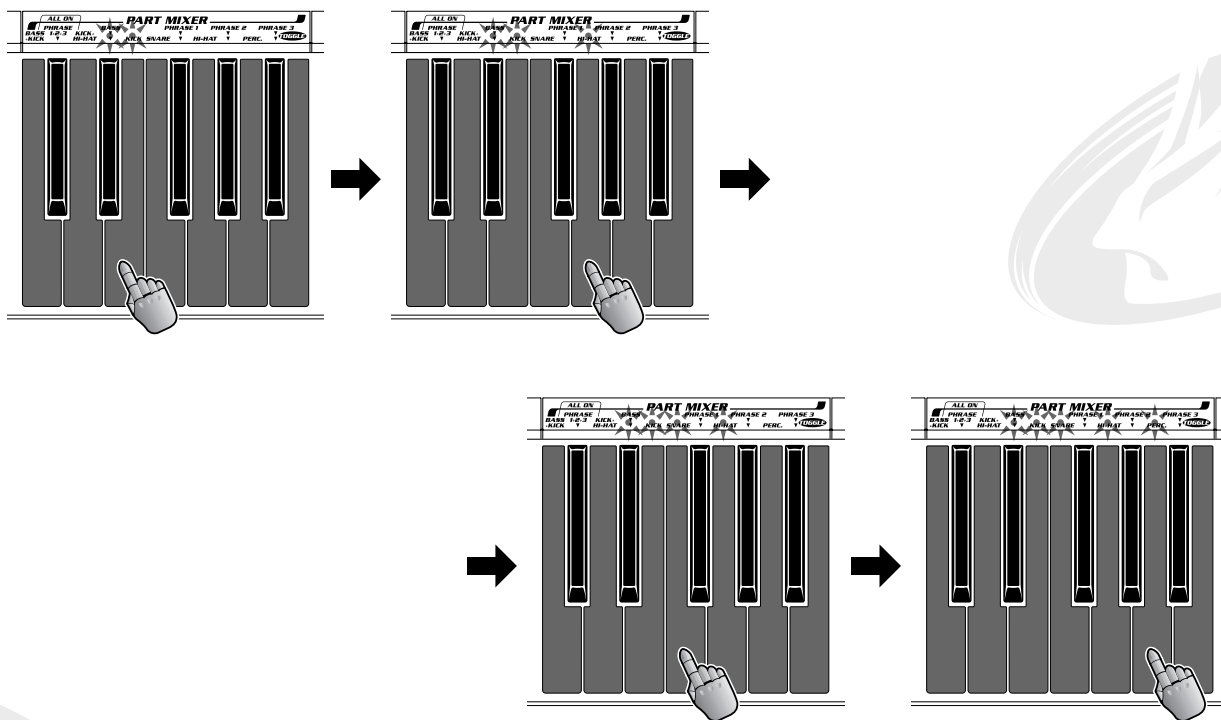
Work on your instrument textures. All the mixmasters and mixologists do it! Why? Because it works like a charm!

Try turning all the Parts off — except the BASS Part — then select P05 and start V1.



Let the Bass carry on for a while. Then bring in the Kick. Let those two instruments simmer for a while, then start up the Hi-Hat. Pull in the Snare for a powerful beat. Then fly in some Percussion to spice things up. Finally, get all the Parts happening, so the whole Pattern is playing.

Experiment with other instrument combinations and orders, let your ears be the judge... and have fun! After all, this is the way the pros build up the sound.



Part Selector

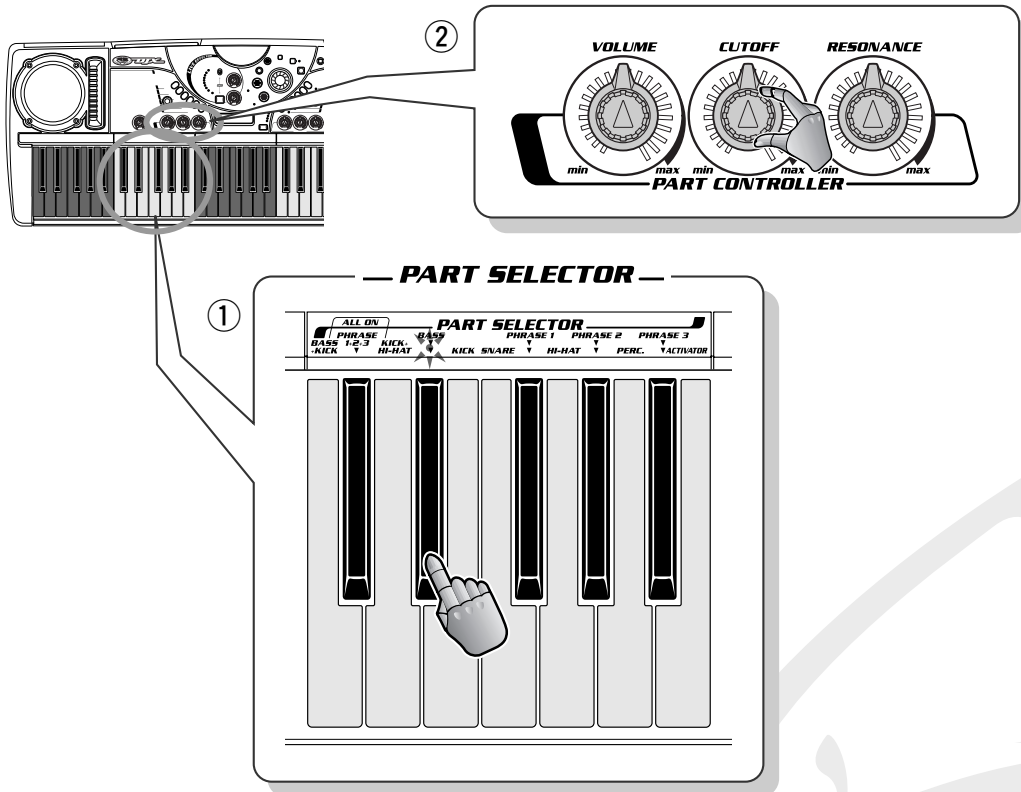
Now that you've learned about the Parts and had a chance to fool around with them, let's see what other magic you can work with them...

Tip 32 Grab a Part and tweak it!



If you thought tweaking the effects (Tips 13 - 23 above) was a blast, wait till you start working on the Parts. This is where the fun really begins!

Introducing the Part Selector and the Part Controller. By itself, the Part Selector doesn't make any sound. It simply lets you select the Part you're going to be tweaking with the Part Controller.



For example, if you've selected BASS with the Part Selector keys, and turn the CUTOFF knob, only the Bass Part will be affected by changing the Cutoff. Likewise, if Hi-Hat is selected and you turn the VOLUME knob, only the Hi-Hat's volume will be changed.

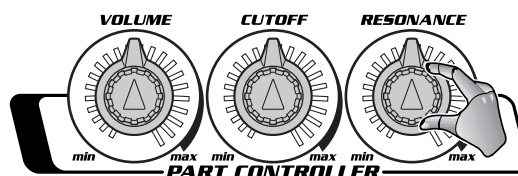
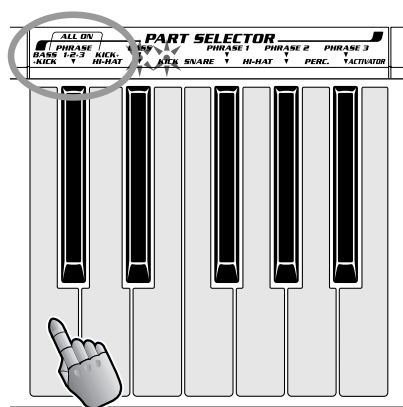
Notice that this function only works on one Part at a time. Select a Part, turn a knob — only that Part is affected. When you press one of the normal Part Selector keys (BASS, KICK, SNARE, etc.), that Part is enabled for control and the others are ignored.

Tip 33 Combination keys



Did we say you could only control one Part at a time? Sorry! Actually, the Part Selector has three combination keys that let you call up several Parts at once for tweaking.

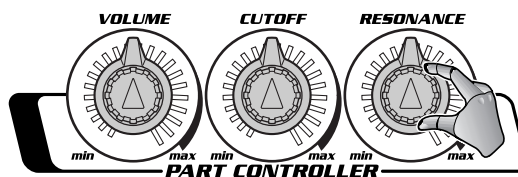
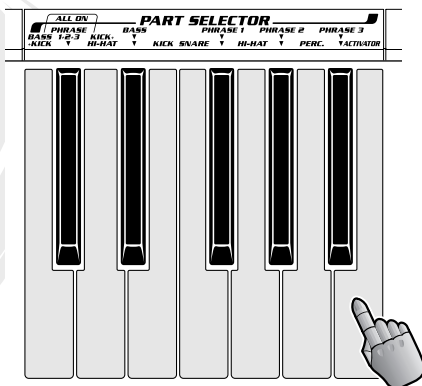
For example, press the BASS+KICK key — then use the Part Controller knobs to tweak both the Bass and Kick Parts simultaneously. Naturally, the PHRASE1+2+3 and KICK+HI-HAT keys work in similar fashion for those combined Parts.



Tip 34 Tweak the Activator sound!



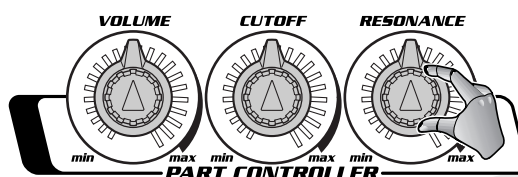
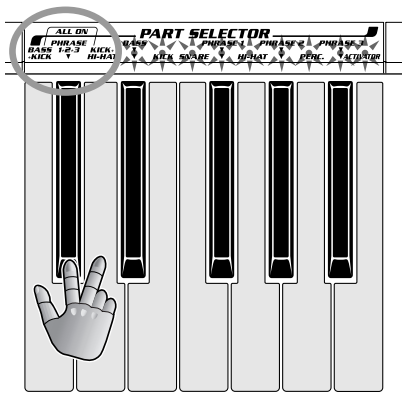
Guess what? The Activator is fair game for the Part Controller, too! Press the ACTIVATOR key in the Part Selector section, and you've just called up all of the Activator sounds for tweaking. In other words, the Part Controller affects ALL keys in the Activator at the same time.



Tip 35 Select all Parts and tweak them!



Here's where things get wild and wooly! Press the three keys BASS+KICK, PHRASE1+2+3 and KICK+HI-HAT at the same time, and all Parts — as well as all Activator sounds — are selected. Turn the CUTOFF knob or another knob and hear how the overall sound radically changes — that's because all Parts and all Activator sounds are controlled together by the knobs.



Part Controller

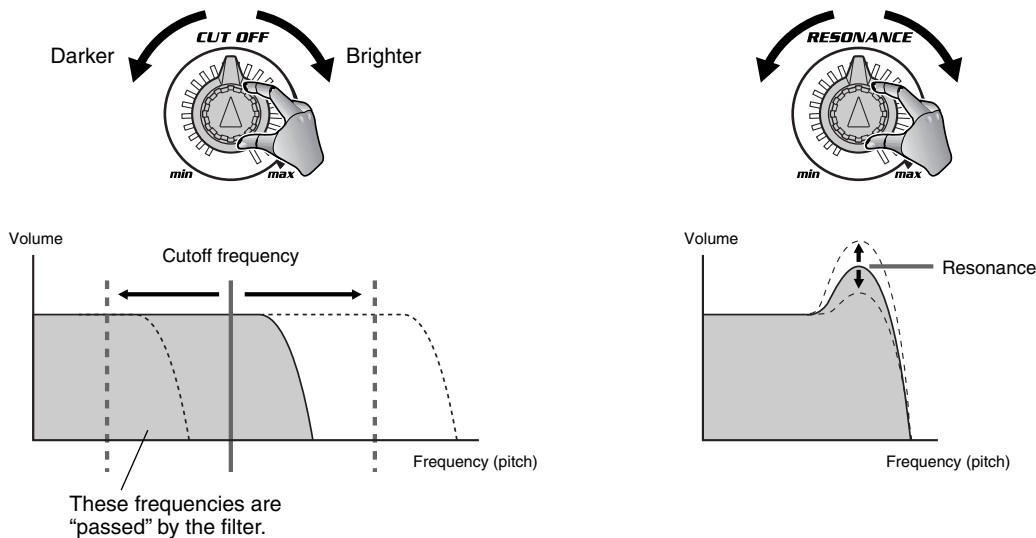
In the last chapter you did some tweaking of the Parts. Now it's time to dig in a little deeper and explore the Part Controller section. These little knobs can really open up your sound!

Tip 36 Cutoff and Resonance



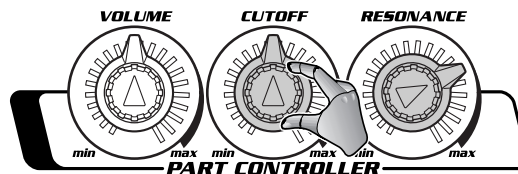
The CUTOFF and RESONANCE knobs control the filter effects. And what are “filter effects,” you ask? Well, filters have been used for a long time with analog synthesizers, and in the right hands they are capable of turning static, boring sounds into something really dynamic and animated.

Turn CUTOFF to the left and the sound becomes darker or “muffled.” Turn CUTOFF to the right and the sound becomes brighter. The RESONANCE knob controls how sharp the peak of the filter is. Turn RESONANCE to the right and the filter peak becomes sharp and pronounced. Turn the RESONANCE left and the filter becomes flat.



Try tweaking CUTOFF while RESONANCE is at about 2 or 3 o'clock (see below). The filter becomes sharper, and you can actually hear the filter peak moving according to the CUTOFF knob position.

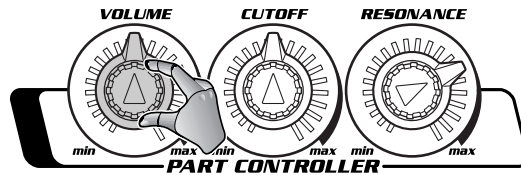
There's no way to adequately describe this effect in words — you just have to try it out for yourself, and hear how awesome it can make your music sound!





Tip 37 Adjust the Part volume

Yes, the VOLUME knob is a simple control for the volume of the Part — but the simplicity is deceiving. By letting you adjust the volume for each Part, you can perform various arranging tricks on the fly, like fading specific parts in and out of the overall mix — while the Pattern is running!



Tip 38 Tweak the cutoff

Set RESONANCE to about 2 or 3 o'clock, then select PHRASE1+2+3 with the PART SELECTOR. Slowly turn the CUTOFF knob to create a slow sweeping effect. Twiddle the knob back and forth quickly and create a wah-like trembling effect.

③ Select PHRASE1+2+3.

① Start the Pattern.

② Set RESONANCE to about 2 or 3 o'clock.

④ Turn the CUTOFF knob.

⑤ Stop the Pattern.

Key Shifter

As a dance production powerhouse, the DJX-II naturally excels in the realm of rhythm. However, it's got important harmonic bases covered as well. One of these is the convenient Key Shifter.

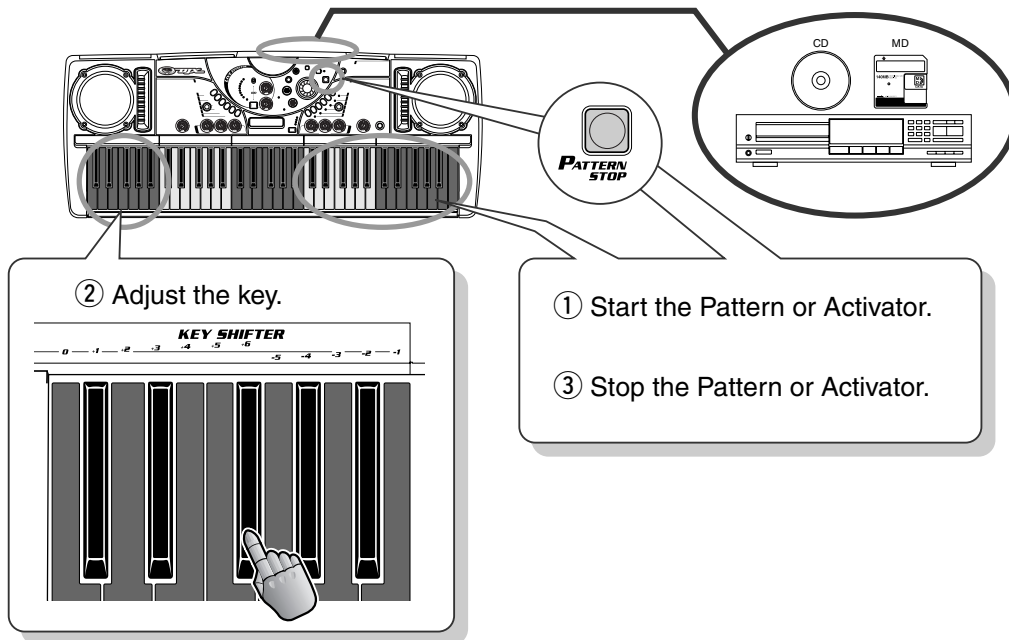
Tip 39 Transpose the key



The Key Shifter section of the DJX-II lets you take the pitch (or “key”) of the overall sound, and transpose it up or down — instantly!

Believe it or not, changing the key of the overall sound makes subtle but fundamental changes to the character of the sound as well. Use higher keys (+1 to +6) to make the sound more tense or brighter, and use the lower keys (-1 to -5) to make the sound more relaxed and subdued.

Key Shifter is especially convenient when you're using the DJX-II with an external sound source, such as CD or vinyl — letting you match the key of the Pattern to the key on the external source!

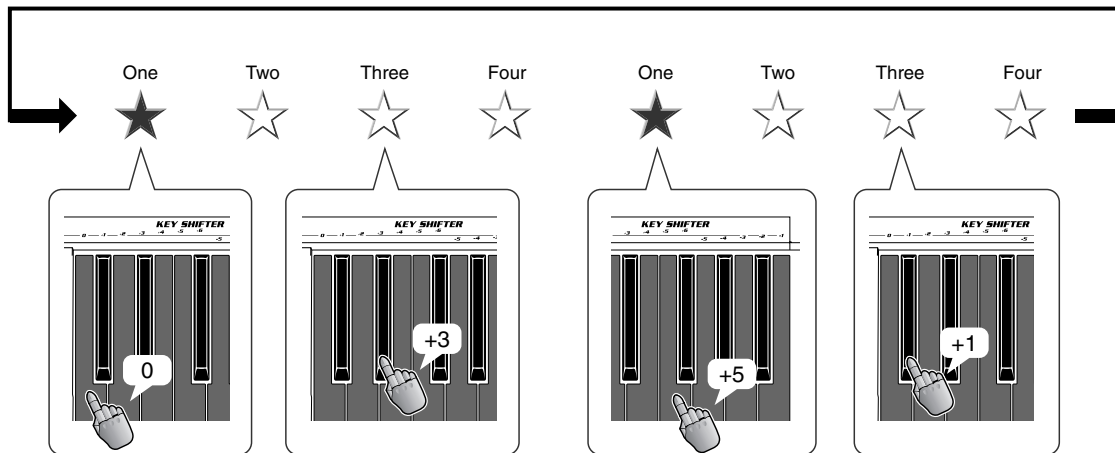
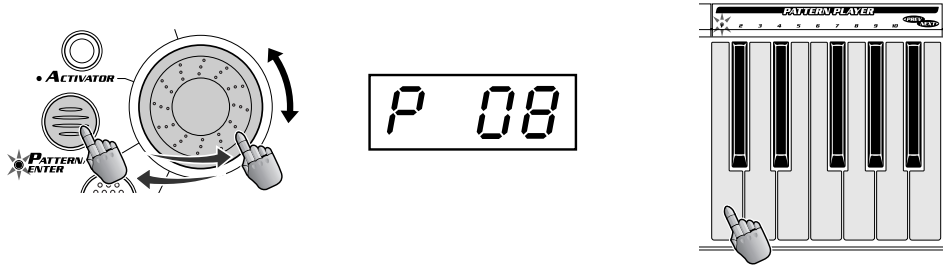


Tip 40 Create your own chord progressions!



Naturally, you can use the Key Shifter to change chords on the fly, and create your own original chord progressions — as you perform!

Let's try it out. For example, select P08 and start V1. Then press the Key Shifter keys as shown below. Remember to keep the beat and stay in time!



Since many of the DJX-II Patterns have their own pre-programmed chord progressions, shifting the key in the middle of a Pattern may result in unexpected or unusual twists. Experiment! Try different Patterns. Try using only two keys, alternating between them every other bar. Try changing key only once every four bars, especially for Patterns that change chords several times over their four-bar cycle. In this simple feature there's a huge world of musical possibilities!

Ribbon Controller

The DJX-II is packed with knobs, pads, switches and dials that let you work the sound with your fingers. And here's one more expressive tool that gives you hands-on control!



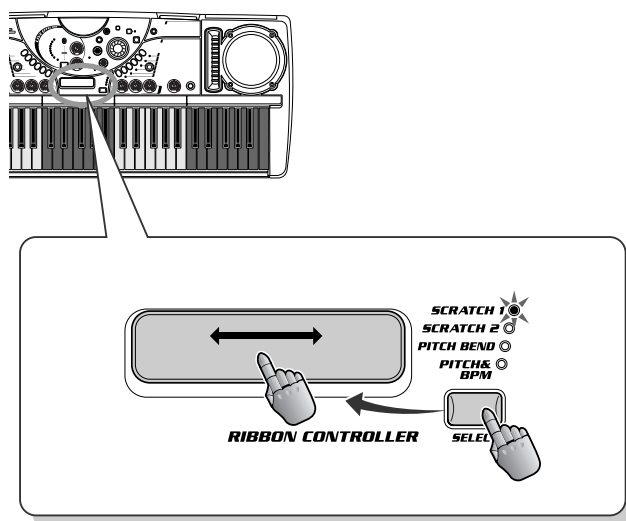
41 Do some scratching on the Ribbon!



Work out on the amazing Ribbon Controller! It sounds just like scratching a turntable — and it takes up a whole lot less space!

Select Scratch 1 (press the SELECT button). Now touch the Ribbon Controller and hear the characteristic vinyl “noise.” Next, move your finger along the Ribbon to get scratching sounds. For a different scratch sound, use Scratch 2.

As always, play along with the rhythm, and stay in the pocket!



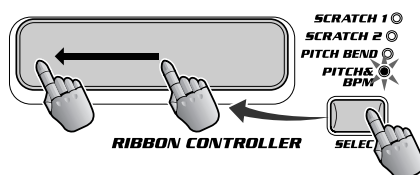
42 Stop the turntable



You’ve heard the effect — where the whole track drops in pitch and slows down to a grinding halt! Guess what — you can do the same thing on the DJX-II, and have fingertip control over it, too!

Select Pitch&BPM (press the SELECT button), and the Ribbon Controller switches to control both pitch and bpm simultaneously. Put your finger at the center of the Ribbon, then slowly slide it to the left — and hear the pitch go down and the bpm slow down. Sliding your finger all the way to the left brings everything to a grinding halt — just like turning off the power on a turntable!

Let go of the Ribbon, and the “turntable” starts up again! The Pattern starts at low pitch and bpm, and gradually works its way back up to speed. An awesome effect that cranks up the excitement factor a couple more notches!



BPM/Tap Basics

Control over bpm means control over the dance floor! Some mixologists have this down to a science. Use these tips to get started with your own bpm explorations.

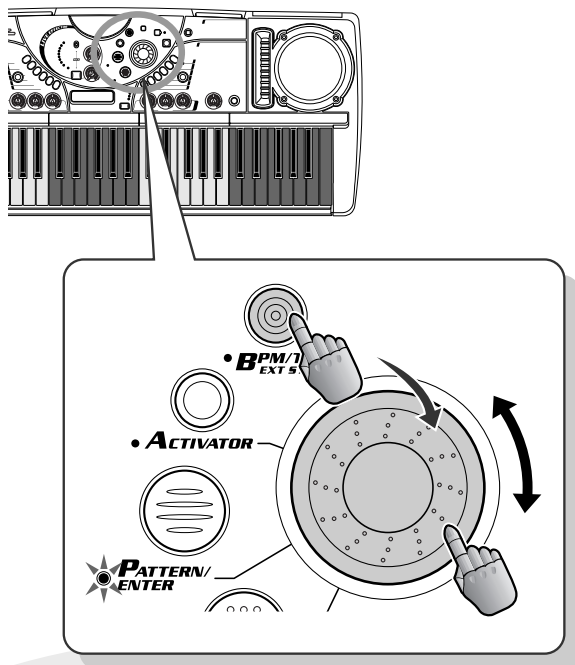
Tip 43 Change the bpm



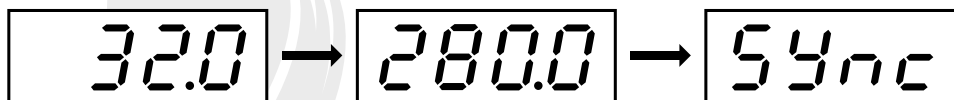
Another sure-fire way to stir things up is to play with the bpm. Turn up the bpm and turn up the heat!

Press BPM/TAP once and turn the dial. For you techies, the bpm range is 32.0 - 280.0. try starting the Pattern at a slower-than-normal bpm, then gradually bring the bpm up in speed to get the groove really happening!

◆ **Be careful!** If the Pattern is stopped and you turn the dial past 280.0, "Sync" appears in the display and the DJX-II goes into the Sync Mode (see page 69). To get out of this mode, simply turn the dial to the left, until bpm values appear in the display again.



Sync Mode (page 69).
(Only selectable when
Pattern is stopped.)



Tip 44 Reset to the default bpm



Want to get back to the original pre-programmed default bpm? Simply press and hold down BPM/TAP — and the bpm of the currently selected Pattern is instantly reset to its original speed.



Pattern Player Power Tips

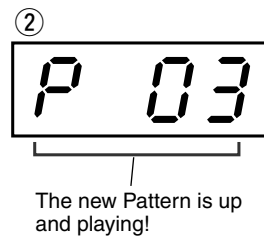
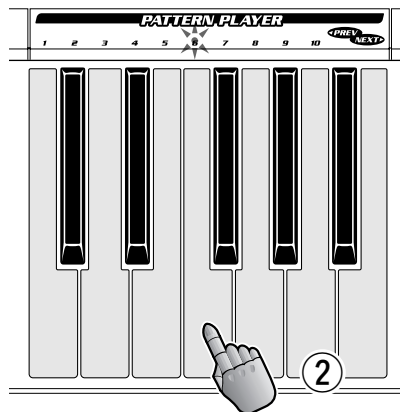
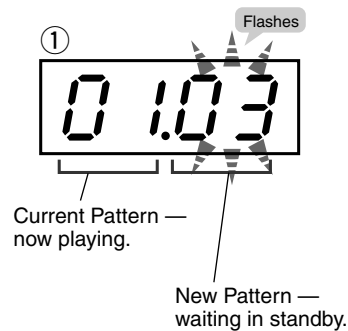
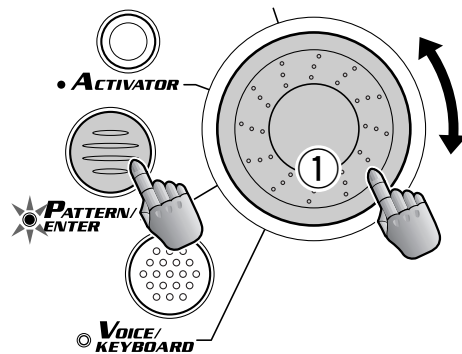


45 Hitting a new Pattern and Variation — at the same time!



There will be times when you'll want to change not only to a new Pattern, but to a specific Variation — instantly and at the same time. Here's the best way to do that!

First, press PATTERN/ENTER and turn the dial to call up the new Pattern number. Then, while the first Pattern is playing, press the desired Variation key. Both the Pattern number and the Variation number change simultaneously.



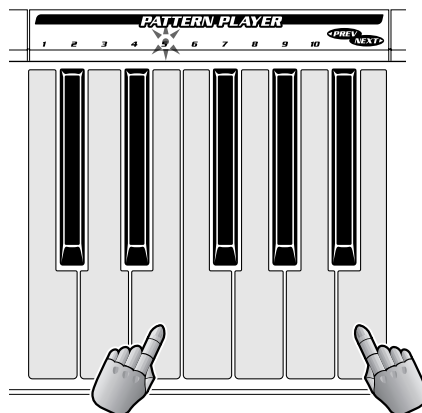


46 Step up to the next Pattern and Variation



Here's a "Variation" on Tip 45 above. This lets you select the next Pattern number and one of its Variations at the same time. Press NEXT and the desired Variation key in the Pattern Player. Both the Pattern number and the Variation number change simultaneously.

Naturally, you can do the same with the PREV (Previous) key as well.

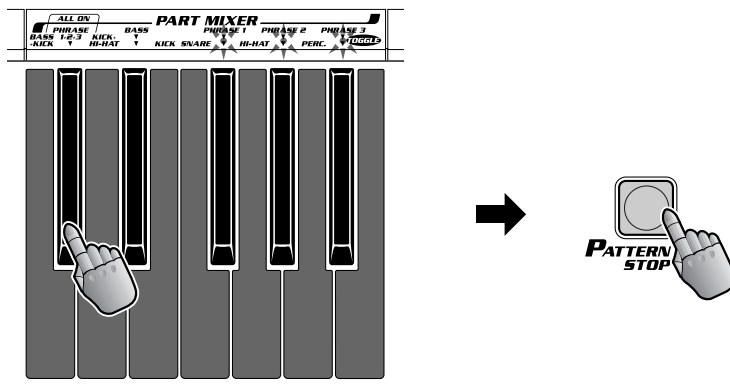


47 Cool outro



Here's a tip you can use for creating professional endings!

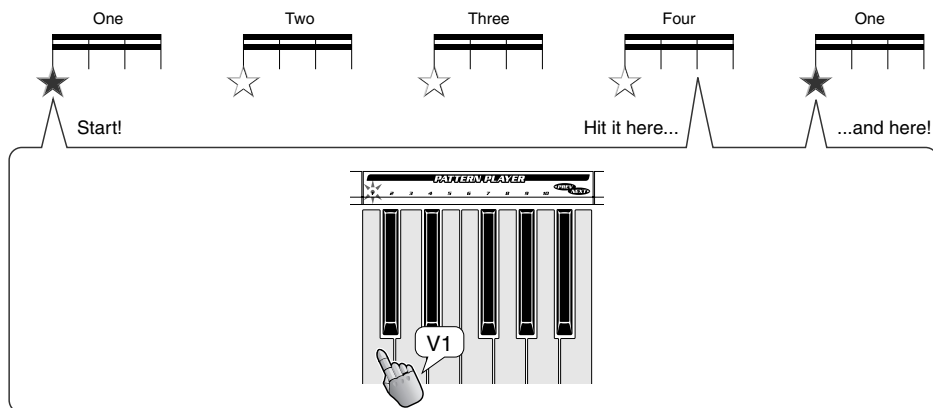
While the Pattern is running, press PHRASE1+2+3 of Part Mixer to turn off the basic rhythm and drum parts of the Pattern. Let the Phrase Parts play for about one or two bars, then press PATTERN STOP just after the end of the Pattern — right before the "one" of the next measure.



Tip 48 Creative fill-in 1



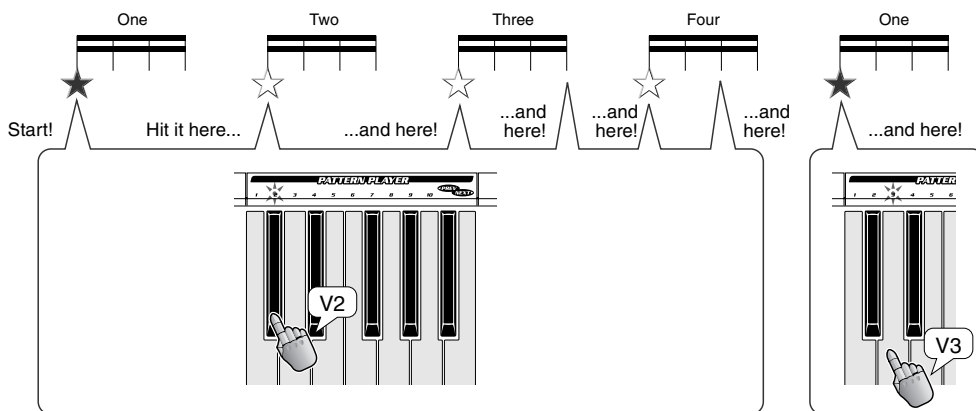
Select P03 and start with V1. Then, hit the V1 key in the following rhythm.



Tip 49 Creative fill-in 2



Select P03 and start with V2. Hit the V2 key repeatedly in the following rhythm, then play the V3 key on the “one” to change the Pattern!



Tip 50 Using the Activator to lead into the next Variation



Here's a cool technique you can use as a transition or fill to the next Pattern Variation. It's a slick way to change the rhythm without breaking the flow!

Select P06 and A02. Start up V1, and play Activator Loop 1 while the Pattern is running. As soon as Loop 1 plays for a bar or two, stop the Loop and change to a new Variation — by pressing the Loop 1 key and V5 at the same time.

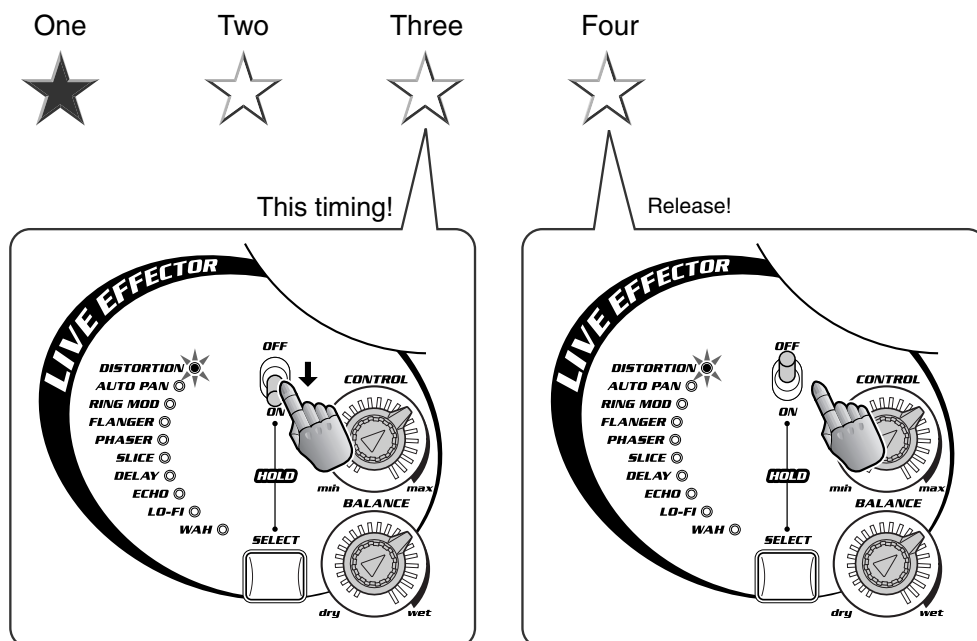
Live Effector Power Tips

Tip 51 Distortion



This little trick can kick your tracks into high gear! Use the Distortion effect selectively, applying it only to certain beats in the Pattern, places you want to add an accent — such as on the 2nd or 3rd beat of the bar. This gives you a massive, in-your-face sound — right on that all-important back-beat — and takes the rhythm to a new level!

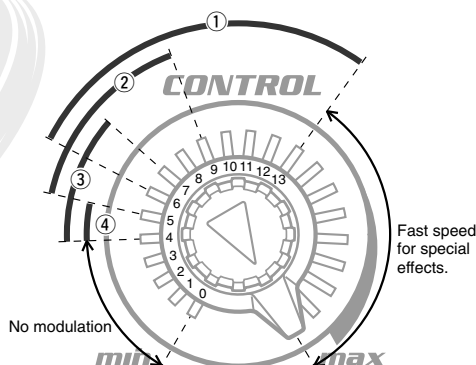
In a Variation on this technique, bring in the Distortion repeatedly and rhythmically. This punches new accents into the Pattern, and — with the right treatment — creates a completely new Pattern! This technique works extremely well with some of the other effects, such as Ring Mod, Flanger, and Phaser. Naturally, you can record your playing to the Performance Recorder (page 56) and use the new Pattern as a Variation — in real time, without having to re-execute the complicated moves!



Tip 52 Auto Pan



Tweak the knob until you hit the “sweet spot” — the point at which auto panning syncs up to the bpm and gives you the rhythmic effect you want.



① 1 beat cycle	Knob position	6	7	8	9	10	11	12	13
	bpm	55	70	90	110	125	145	160	195
② 2 beat cycle	Knob position	5	6	7	8	9			
	bpm	70	110	140	180	200			
③ 3 beat cycle	Knob position	4	5	6	7				
	bpm	60	105	165	210				
④ 4 beat cycle	Knob position	4	5						
	bpm	80	140						

◆ Tech tip:

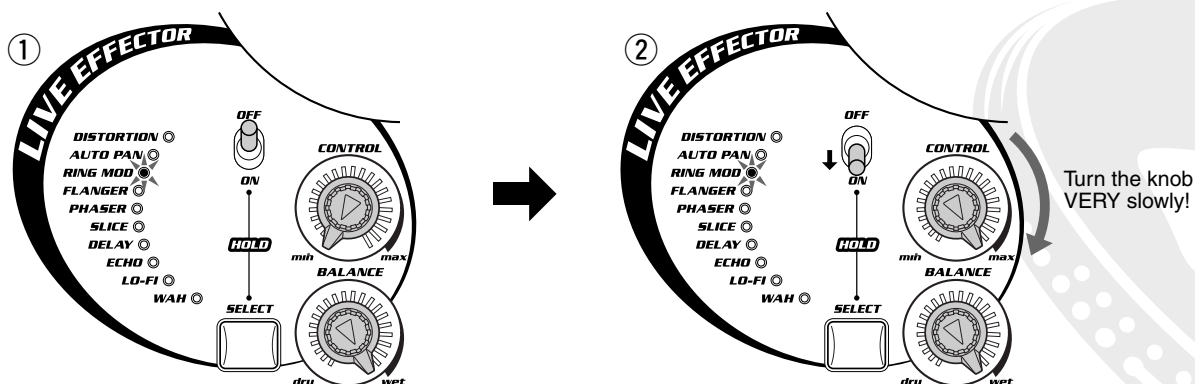
The knob positions and the corresponding bpm readings shown here are approximate — let your ears be the final judge!

Tip 53 Ring Modulation



As we pointed out in Tip 16, this effect is a powerful one, so you’ll want to save it for huge, in-your-face intros, transitions and endings. Here’s how you can use Ring Modulation to build to an enormous climax:

First, set the controls — CONTROL to min and BALANCE to max. Then, hold the effect on (or lock it, as described in Tip 13), and simultaneously move the CONTROL knob toward max — very slowly. Use the effect to build to a fever pitch, then — right at the climactic moment, just before the “one” — turn the effect off and switch to a new Pattern or Variation.



Tip 54 Flanger



Tweak the knob until you hit the “sweet spot” — the point at which the Flanger’s modulation cycle syncs up to the bpm and gives you the rhythmic effect you want. (See the illustration in Tip 52 for details on how the knob settings relate to bpm.)

Tip 55 Phaser



Tweak the knob until you hit the “sweet spot” — the point at which the Phaser’s modulation cycle syncs up to the bpm and gives you the rhythmic effect you want. (See the illustration in Tip 52 for details on how the knob settings relate to bpm.)

Tip 56 Slice

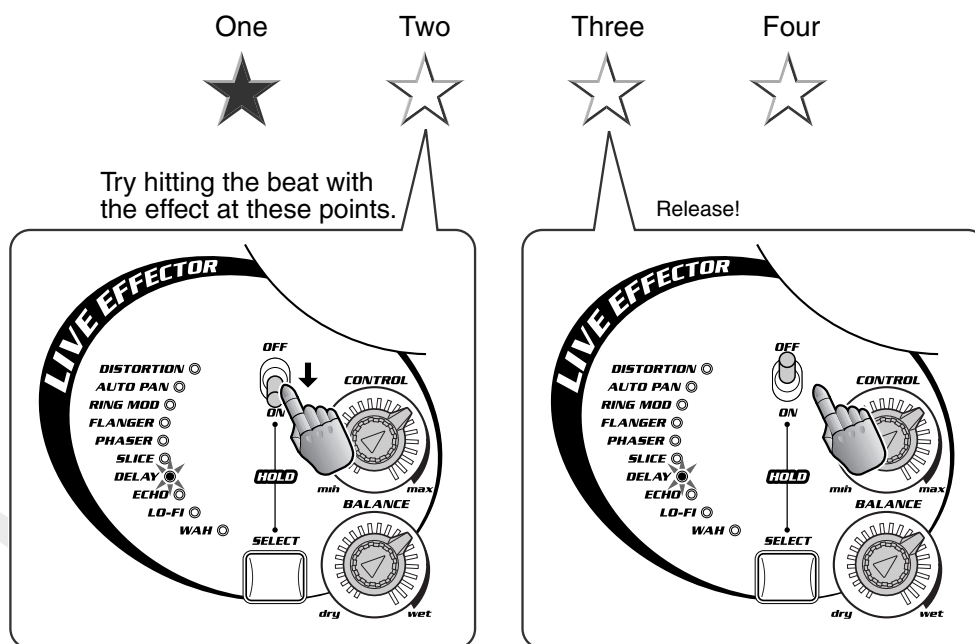


The different rhythm feels that Slice creates depends on the Pattern you’ve selected as well as the CONTROL knob setting. Experimentation is the key! Try different Patterns and see how they morph when you change the CONTROL knob setting. Move the knob slowly, and find your favorite settings.

Tip 57 Delay



Clever use of Delay is a cornerstone in many different styles of dance music — especially dub. For a dub flavor, set the BALANCE knob to around 2 or 3 o’clock, and turn on the effect only for certain beats. Play around with this — experiment and try to hit the “sweet spot,” the point where the Delay locks into the groove and gives you the feel you want!



◆ CONTROL knob position and Delay time

The knob position determines the rhythmic division (in note values) of the Delay — automatically synchronizing the Delay to the bpm.

Tip 58 Echo



Many styles of dance music use echo effects in surprising, unique ways. The DJX-II's Echo effect lets you use the popular 3/4 beat delay to build up dramatic rhythmic rolls and fills. It also gives you some fascinating echo textures to use in transitions and endings.

Here's a cool trick you can use in your own music! Select P08 and start up V1 with only the Kick. Set CONTROL to about 2 o'clock and BALANCE to roughly 12 o'clock (center). Turn on the effect, then stop the Pattern and let the Kick repeats fade out. Just before the Kick disappears, start the Pattern with all the Parts on!

Tip 59 Lo-Fi



Though you may have personal preferences of your own, Lo-Fi is often best when set to the extreme settings — with CONTROL at max and BALANCE at wet.

To get an even more authentic AM radio sound, set the Isolator LOW and HIGH knobs to min. Work these controls in rhythm, and try to bring the sound back to normal right on the “one” downbeat — turning the effect off and bringing the LOW and HIGH knobs to center as quickly as you can!

Tip 60 Wah



Tweak the knob until you hit the “sweet spot” — the point at which the Wah's modulation cycle syncs up to the bpm and gives you the rhythmic effect you want. (See the illustration in Tip 52 for details on how the knob settings relate to bpm.)



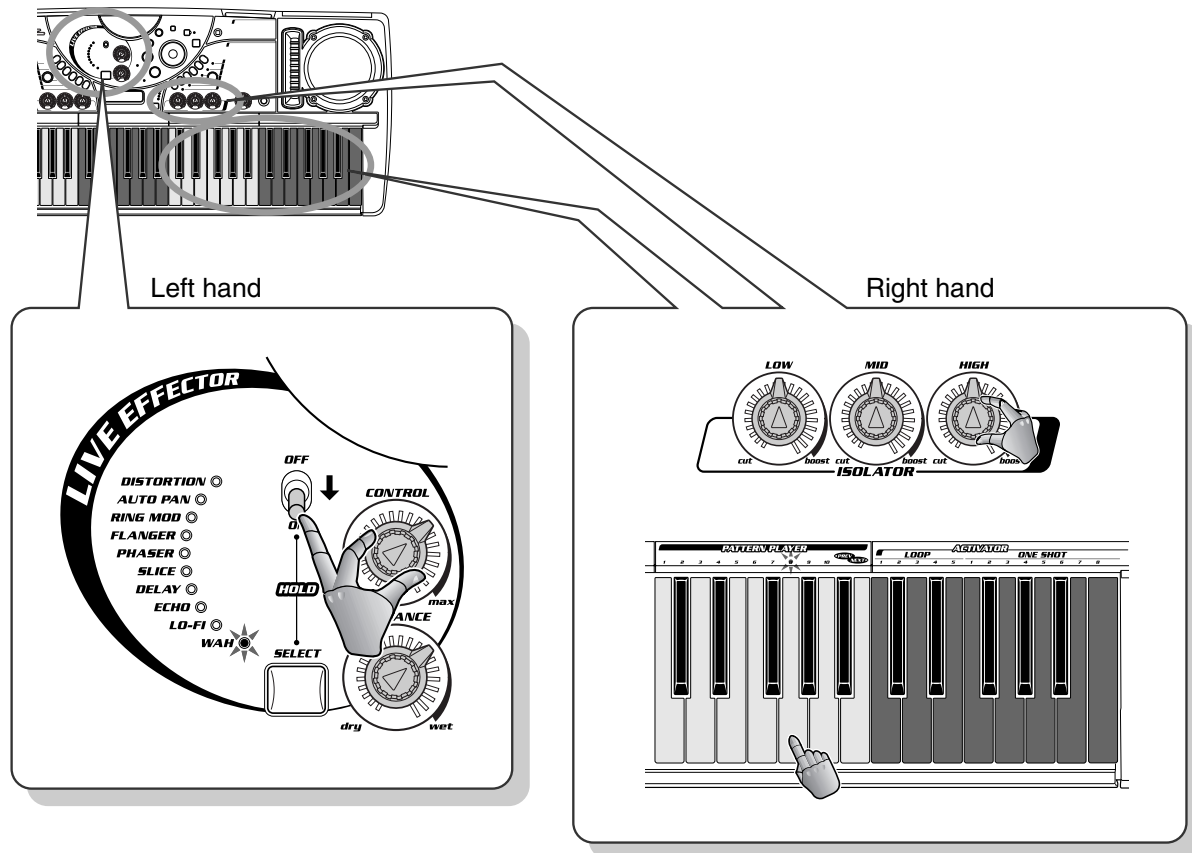
Tip 61 One-hand Effector control!



This technique may take a little practice and some digital dexterity — but once you’ve got it down and are able to play in the pocket, you’re on your way to being a true DJ wizard!

Grab the Control knob with your forefinger and thumb, and use your middle finger or ring finger to flick the effect switch on and off. This lets work the effect in rhythm — and still have your right hand free to change Patterns and trigger Activator loops and one-shots. Or use your right hand to further mangle the sound with the Isolator or Part Controller knobs!

As always, keep the rhythm steady — a master DJ is only as good as his time!



Tip 62 Isolator to the max!

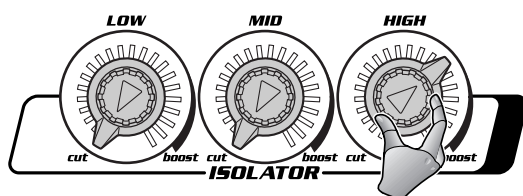


Play the Isolator in real time! Get the Pattern running, then tweak the knobs to their extreme settings for radical changes to the sound — on the fly!

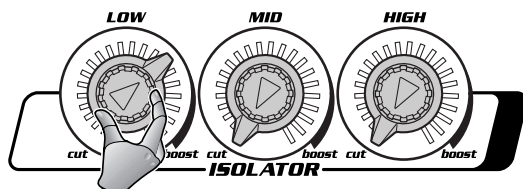
For example, try cutting back Low and Mid to zero, and bring High up to the max — for a really brittle, tinny sound. Or try boosting Low to the max while taking Mid and High all the way down — for a boomy, bass-only sound. Or go for the sound of an AM radio by setting Mid to max and cutting Low and High.

Since the effect of the Isolator controls depends in part on the selected Pattern, you'll need to do some playing around. Stick to one Pattern and some of its Variations, then experiment with the Isolator to find some hip settings.

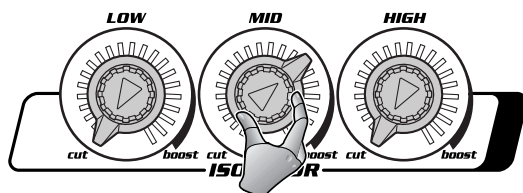
For maximum dramatic effect, make these changes as quickly as you can, bringing the knobs up or down instantly, if possible. Also, rhythm rules — so, make your moves on the downbeat, right in time! Practice your moves and get them down so you can tweak the sound as you perform!



Brittle, tinny sound



Boomy, bass-only sound



AM radio sound



Chapter 14

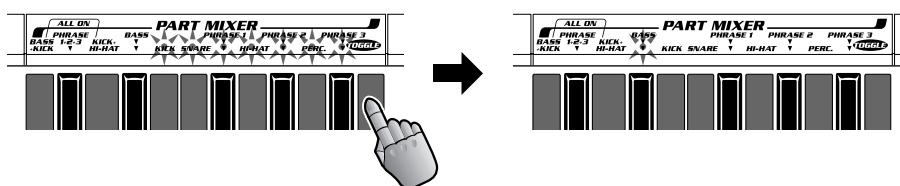
Part Mixer Power Tips

Tip 63 Toggle the Part Mix



Here's a quick and really powerful way to break up the beat! The Toggle key lets you switch between two opposite arrangements of the rhythm.

For example, if the Bass is off and all the rest of the Parts are on, pressing the Toggle key instantly switches the Pattern so that only the Bass is on, and all the rest of the Parts are off. What a great way to turn the sound around!



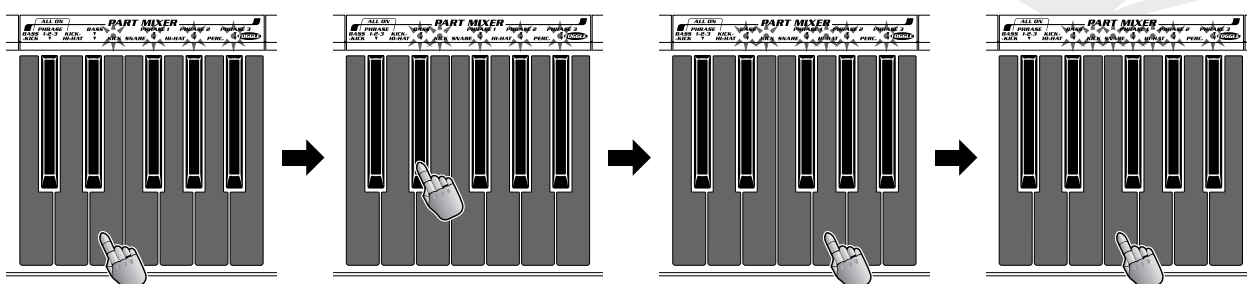
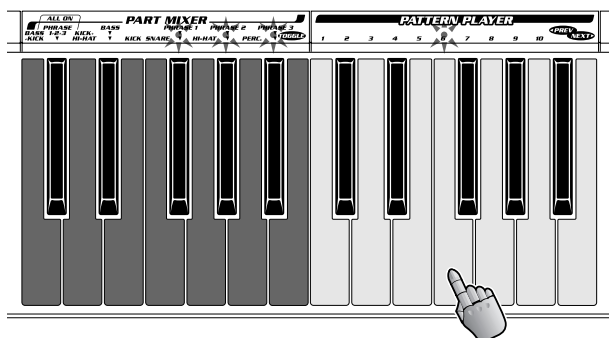
Tip 64 Cool intro



Here's a specific example to get you started arranging your own tracks!

Select P07 and start V6, and set Part Mixer so that only Phrase 1, 2 and 3 are playing. Then try adding the Kick, Bass, Hi-Hat and Snare Parts one-by-one until you've got the whole Pattern happening. Try this "one-by-one" arranging technique on other Patterns as well.

P 07

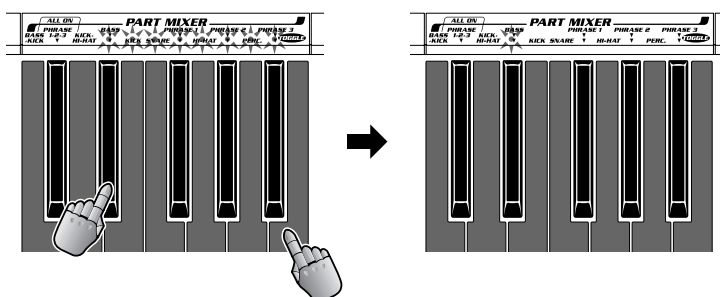


Tip 65 Solo a single Part – instantly!



Here's another useful mixing and arranging trick! Use this after a climactic part, and bring the whole sound down to one certain instrument — like the Bass, or one of the Phrases.

Here's how: When all the Parts are on, press one of the Part keys and the Toggle key simultaneously. This turns all Parts but the selected one off — instantly soloing your selected Part!

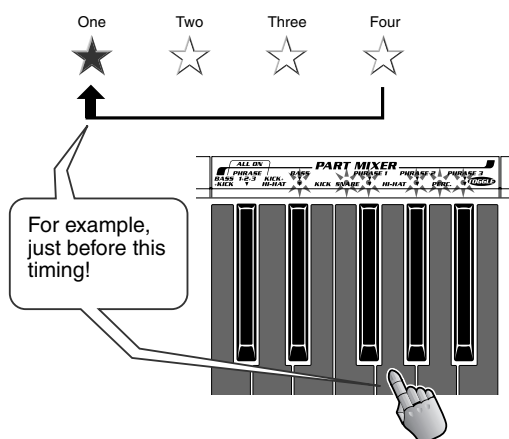


Tip 66 Hit the downbeat!



We said it before, we'll say it again— make sure you keep it in the pocket! That means making all your hits right on the beat, so that the whole rhythm grooves.

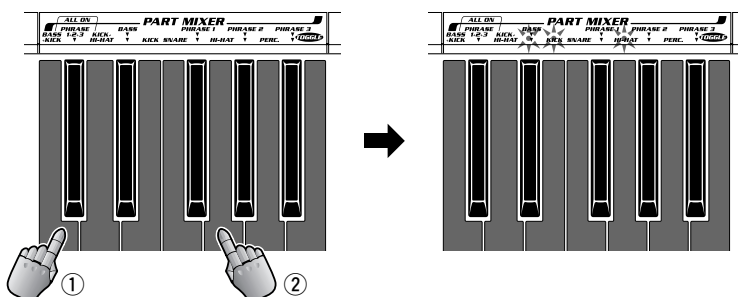
Hitting the downbeat is a little bit tricky, though. When you turn on a Part, you'll probably have to hit the key a fraction of a second before the actual downbeat to make everything flow smoothly and stay in the pocket. Turning off a Part is easier and more forgiving — basically do it whenever you want, or wherever feels good!



Tip 67 Custom Combination keys



For times when the Combination keys don't have quite the right combination, you can add the needed Parts to them. For example, if you want to turn on only the Bass, Kick and Hi-Hat, first press BASS+KICK, then immediately follow that with the HI-HAT key. Provided you're fast enough, all three Parts should kick in simultaneously — and smoothly!



Chapter 15

Part Controller

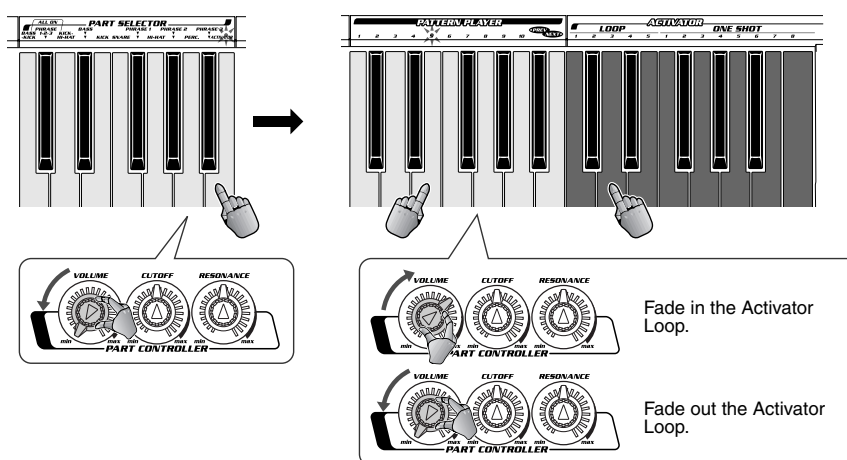
Power Tips

Tip 68 Activator textures



Here's a key to getting the same smooth, shifting textures you hear in a lot of pro mixes!

Select the Activator key in the Part Selector and turn the Part Controller volume to zero. Now, with the Pattern playing, trigger one of the Activator Loops, and bring up the volume gradually. Hear how the Activator Loop slowly fades into the mix, adding more texture to the sound. Turn the Volume knob back down, and the Activator Loop fades out.

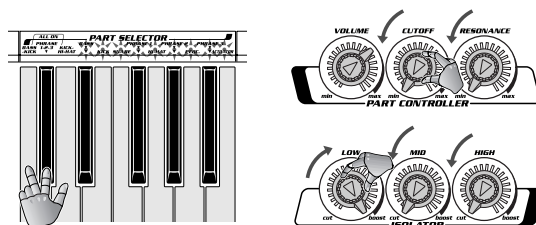


Tip 69 Dark mixes and deep grooves – cut the Cutoff!



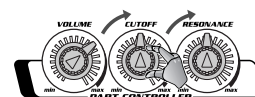
Here's a powerful trick to instantly darken up your tracks — if that's what you're after. It's also great for getting a phat, bottom-heavy sound!

Select all of the Parts with the Part Selector, then set the Cutoff and Resonance to zero. Notice how all the high end disappears from the sound, and all you're left with is a pulsing bass! You can accentuate this effect even more by boosting the Isolator Low knob to the maximum and setting Mid and High to the minimum.



From this starting point, try bringing up the Resonance to max. Then play with the Cutoff knob in time with the rhythm for some stunning filter sweep effects. It's a great way to fade in the other rhythm parts — plus bring in some killer textures!

To bring things back to normal, turn the Cutoff and Resonance knobs to their center positions. Do it on the "one"!

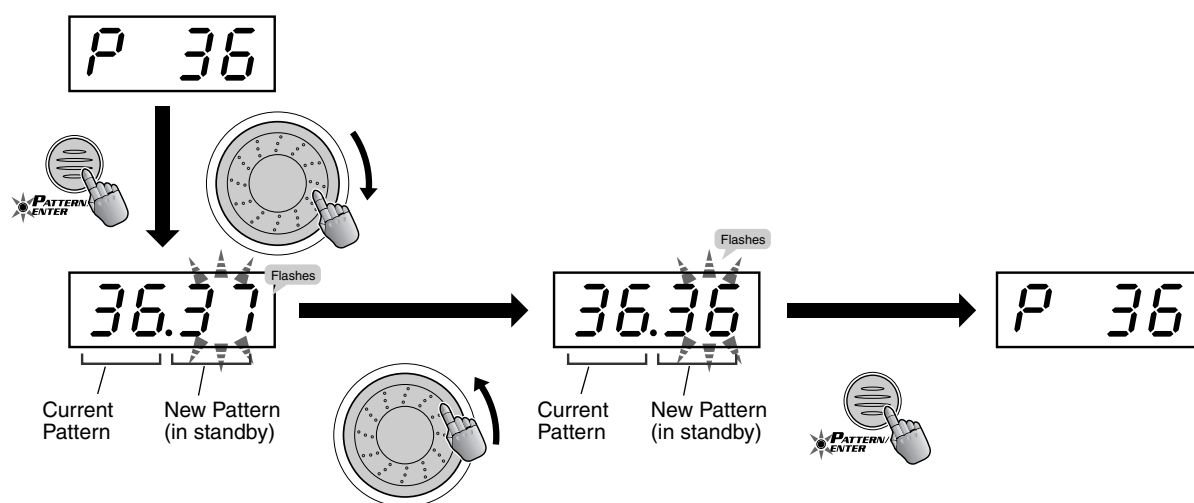


Tip 70 Instant reset!



Once you've made a few changes to the Part Controller settings — especially if you've tweaked more than one Part — it's not so easy to get back to where you started! Often, you'll want to be able to backtrack and reset all the Parts to their original sound. In such a case, the best and easiest way to return to home base is to re-select the Pattern.

Press PATTERN/ENTER so that the Pattern number appears in the display. Then turn the dial forward one step (+1) and then back again (-1), to return to the currently selected Pattern. Finally, press PATTERN/ENTER again. Doing this fools the DJX-II into thinking you've selected a new Pattern! However, this effectively starts the same Pattern with all its original settings, including resetting the Key Shifter to "0" — and puts you back at home base!



Tip 71 Pitch Bend for keyboard voices

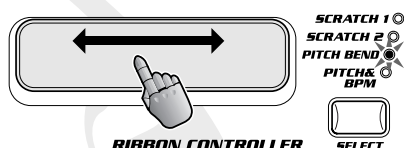


Play some of the Synth Lead voices of the DJX-II and work out on the Pitch Bend!

Set the Ribbon Controller to PITCH BEND, and use this expressive device to give your playing a more dynamic, human feel! Naturally, Pitch Bend can be used on any of the voices — and you should try some of those out! — but it's especially effective on Synth Lead.

For the technically inclined, the Pitch Bend range is +/- two semitones. When you release your finger from the ribbon, the pitch returns to center.

Try using Pitch Bend for some wild and fun effects on the human voices (V123 - V171), or even your own sampled voices (V203). (For info on making your own samples, see the next section, Tip 72!)



Chapter 16

Sampling

Sampling has become such an important music-making tool — in virtually all styles of modern music. Thanks to the DJX-II's Sampler functions, you can use it for your music, too!

Tip 72 Sample it!



Roll your own samples! With the DJX-II, you can record any audio source — such as a CD or MD player, or your own voice with a microphone — and create and play your own original samples. It's simple! Just follow the easy steps here, and you're off!

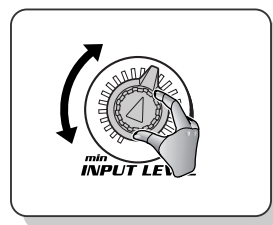
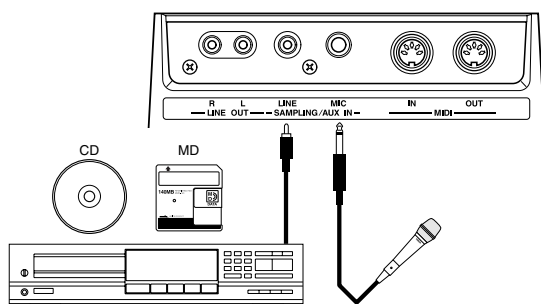
1 Set up the source.

Connect the external audio source (CD player, MD player, cassette deck, microphone, etc.) to the appropriate rear panel jack on the DJX-II.

CAUTION

- **Never connect a line level signal (CD player, cassette deck, electronic instrument, etc.) into the MIC input jack! Doing this could damage the DJX-II and its Sampling functions.**

Start playing back the audio. If your audio source has a level (volume) control, make sure that is set appropriately. Also, adjust the INPUT LEVEL knob on the DJX-II so that the level is high enough to record properly, but not so high that there is distortion.



Helpful hint:

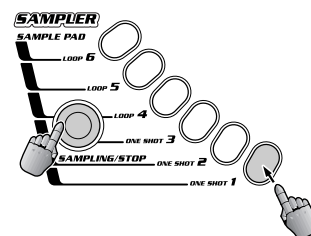
While you're playing back the audio during setup, start one of the Patterns of the DJX-II — preferably one you plan on using with the sample. With the Master Volume up to an appropriate level, this lets you set the level of the external audio so that it will be heard properly as a sample.

2 Set Sampling to standby.

Stop the audio, then simultaneously hold down the SAMPLING/STOP button and press one of the SAMPLE PADS (1 - 6). You're ready to record!

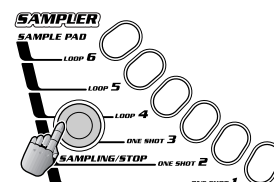
Sampling indications

Notice that while you hold down the SAMPLING/STOP button, the display indicates the level of the signal. Also, when you set Sampling to standby, the letters "SAMP" flash; when sample recording starts, the letters light continuously.



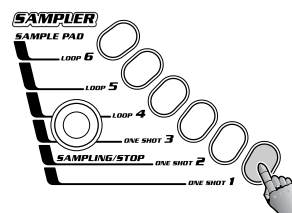
3 Start/stop recording.

Start the audio source, or sing into the microphone — sampling starts automatically! Maximum sample time for one pad is three seconds and maximum sample time for all pads is six seconds. To stop recording (if your sample is shorter than three seconds), press SAMPLING/STOP again.



4 Play the sample.

Simply press the appropriate Sample Pad to play the sample. The DJX-II gives you six pads for recording your samples.



Be careful!

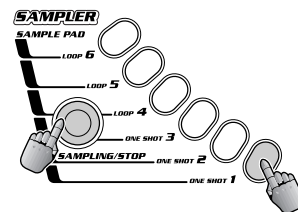
Avoid pressing three or more panel buttons simultaneously (for example, in trying to play three samples at the same time, etc.). Doing so can cause the DJX-II to behave erratically.

Tip 73 Erase the sample



Want to erase a sample and start from scratch? Easy! Simultaneously hold down the SAMPLING/STOP button and press the appropriate Sample Pad (the one containing the sample you wish to erase). After about three seconds, the sample data is erased.

When the sampled voice is selected for playing (Tip 75), you cannot erase the sample.



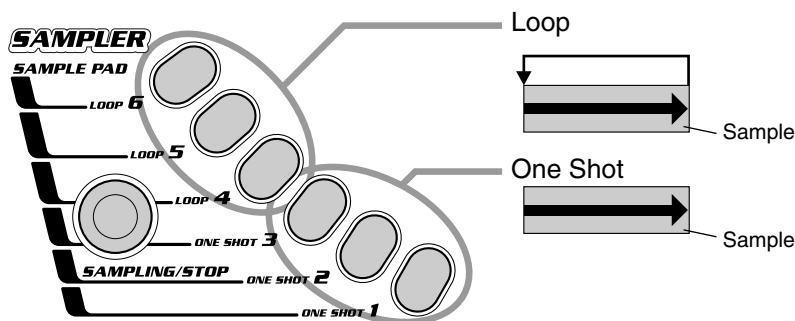
Tip 74 Loops and One Shots



The DJX-II has two different kinds of Sample Pads — One Shot and Loop — that let you play back the samples two different ways.

If you record a sample to a One Shot Pad, that sample plays back once and then stops — hence the name, “One Shot.” If you record a sample to a Loop Pad, that sample plays back repeatedly (or “loops”) — until you stop it by pressing the same Pad again.

The One Shot Pads are useful for little chunks of audio — such as sound effects, hits (like cymbal crashes, orchestra hits, etc.), and voice sound bites — that you don’t intend to loop. The Loop Pads are for audio that you want to repeat, especially for rhythmic effect — such as drum and percussion rhythms and arpeggiator phrases. Loop Pads are also good for sustaining sounds that you want to continue indefinitely.



Tip 75 Play samples from the keyboard!



Create melodies with your original samples. Pitch them low and slow down the speed for special effects. Pitch them high and speed them up. Or play several samples together as a chord. You can even play complex rhythms and stutter Patterns with them.

All of this — and more — is possible by playing samples from the keyboard. To do this, simply switch to the Keyboard mode and select V203.

Playing a sample from one of the Sample Pads results in the same pitch. When you play the same sample from the keyboard, that sample is given a different pitch (and speed) depending on the key you play. Try it out — and see what wild stuff you can come up with!



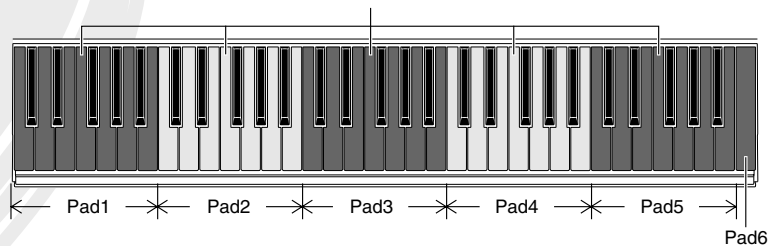
◆ Tech Talk

The recorded samples are assigned to the keyboard according to the following simple rules:

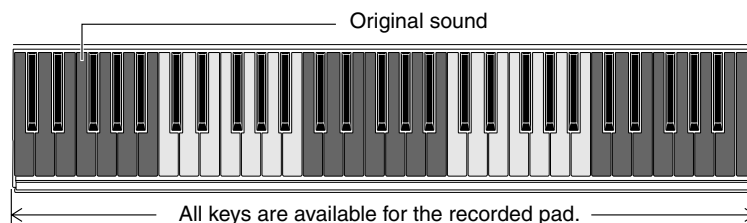
- The original sound of the Pad is assigned to the central F key. Lower keys play at lower pitches; higher keys play at higher pitches.
- If all Pads have recorded samples, each Pad's sample occupies one entire octave (12 keys), except Pad 6, which is assigned to the remaining single key.
- When only one Pad has a recorded sample, it is assigned to the entire keyboard.
- When two to five Pads have recorded samples, or if one or more Pads have been erased, each Pad's assignment moves to take over the "unoccupied territory" of its adjacent Pad.
- Changes made to the Key Shifter also affect the playback pitch and key assignment of the samples. For example, if the Key Shifter is set to "+1," all samples will play back one semitone lower than normal; in this case, the original sound will play at E instead of F.

• When all pads have been recorded...

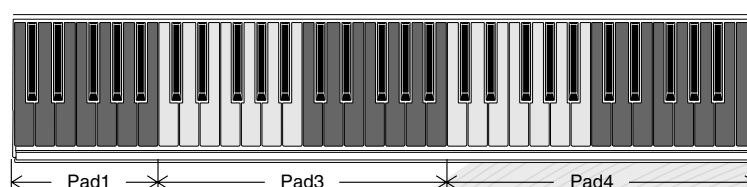
The original sound of the Pad is assigned to the central F key.



• When only one pad has been recorded...



• When some of the pads have been recorded...



Performance Recorder

By now, you're well on your way to becoming a master DJ. In fact, you've probably got a slew of hip ideas and cool moves that you'd like to record for posterity. Enter the Performance Recorder!

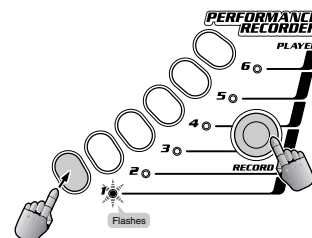
Tip 76 Record your performance



Here's another powerful DJX-II function you'll love! Record all your DJ moves to this amazing Performance Recorder, and play them back — any time you want! Six Performance Recorder buttons give you recording space for up to six performances. Really easy to use, too! Here's how:

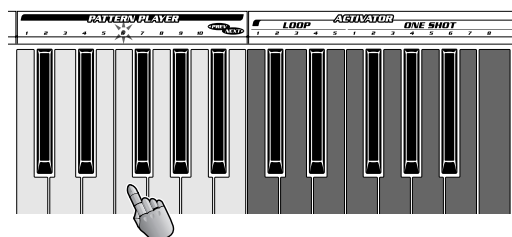
1 Enable recording.

Simultaneously hold down the RECORD button and press one of the PLAYER Pads (1 - 6). You're ready to record!



2 Start recording.

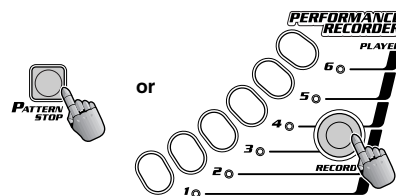
Start performing on the DJX-II — recording starts automatically! Just about anything can be used to start — playing a Pattern or Activator key, pressing one of the Sample Pads, scratching the Ribbon Controller (with Scratch 1 or 2), or even by tapping the BPM/TAP button four times (see Tip 79).



3 Stop recording.

To stop recording, press PATTERN STOP or RECORD. Performance Recorder records the following performances.

- Mode status (Pattern or Keyboard)
- Keyboard performance (Keyboard mode)
- Voice number
- Pattern Player settings and performance (Pattern mode)
- Pattern number
- bpm (including BPM/TAP performance)
- Key Shifter performance (Pattern mode)
- Activator settings and performance (Pattern mode)
- Live Effector settings and performance
- Sample Pad settings and performance
- Ribbon Controller settings and performance
- Part Controller settings and performance



If you've recorded to a Pad when the external clock is set to "Sync," the bpm value is not recorded. This means that when you play back the performance, it will play at the current bpm value, and not necessarily the one intended.

◆ Tech tips:

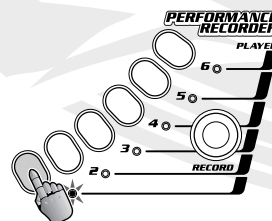
- The length of your recorded performance is quantized to the next downbeat. This ensures that the recorded data makes rhythmical sense — even if you stop a Pattern between downbeats. Be careful, though! Always try to stop slightly before the downbeat, or the recorded performance may carry through to the next beat!
- A maximum of 2500 events (for all six Pads) can be recorded to the Performance Recorder. What constitutes an "event" differs depending on the control used. For example, pressing a button or a key is a single event, but turning a knob or working the Ribbon Controller use up dozens of events at a time.

4 Play the performance.

Simply press the appropriate PLAYER Pad to play the recorded performance. The DJX-II gives you six pads for six separate performances.

Playback continues repeatedly until you press PATTERN STOP.

Pressing the same Pad during playback instantly re-starts the recorded performance from the beginning. Pressing a different Pad during playback stops playback of the previous Pad and starts playback of the pressed Pad.



Naturally, you can record your entire performance to one button. Or you may want to divide your performance up into several parts, and record each separately, one-by-one. This lets you change the order of playback as you see fit, and it lets you repeat individual performances as many times as you like, and string them all together in various orders and... well, you get the idea! It's an awesome tool for live performance!

Tip 77 Jamming with Performance Player



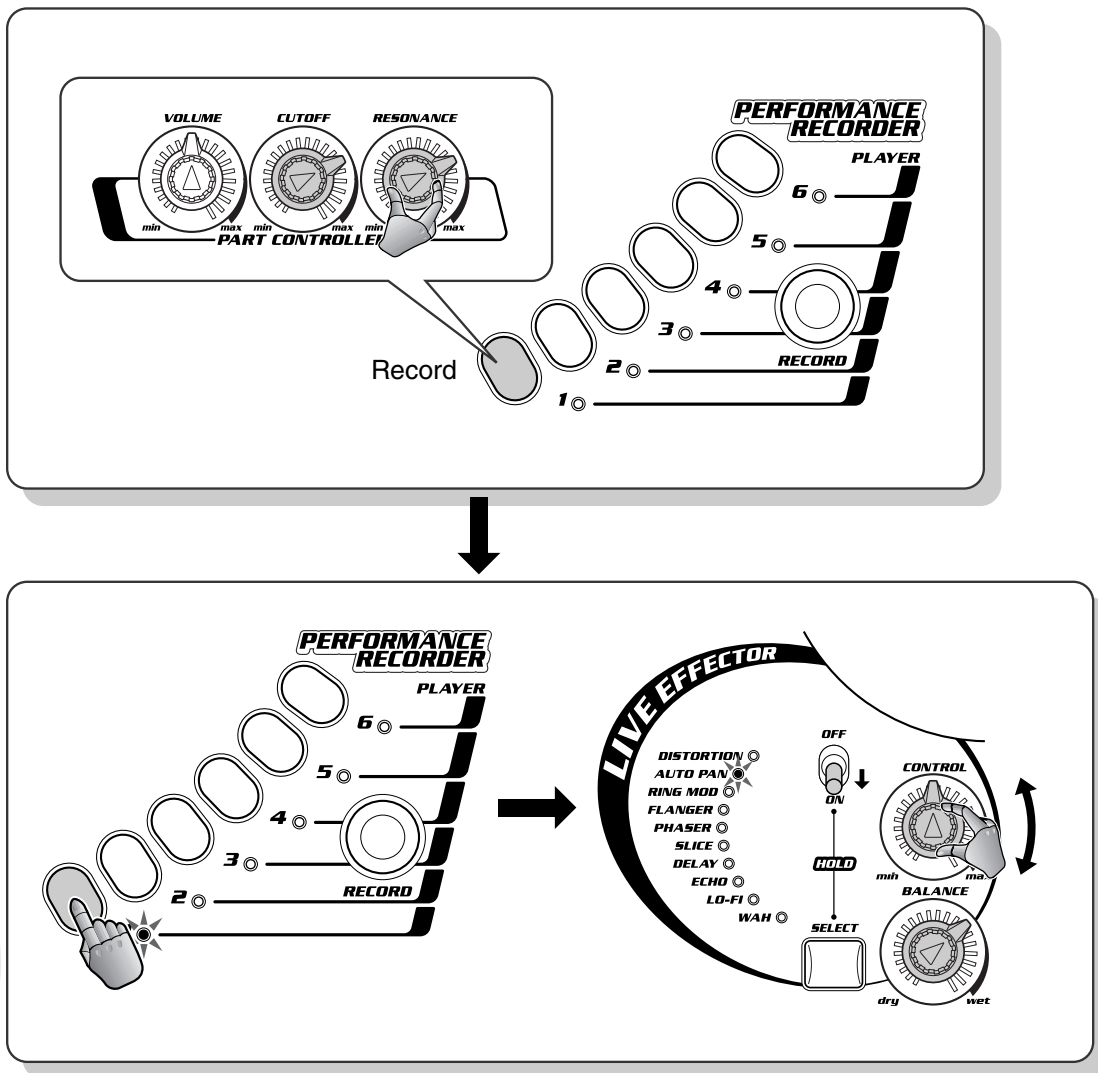
Wow! This is like having an extra pair of hands — or even more — to help you onstage!

Let the Performance Player take care of the basics while you work out on the Activator. Or while you arrange on the fly with the Part Mixer. Or while you tweak and mangle the sound with the Part Controller and Live Effector.

Which means you can sound like a whole battalion of DJs — just on one machine!

Let's say for example, you want to have different Patterns and Variations play in succession, complete with various Cutoff and Resonance moves, plus some twiddling on the Live Effector controls. Just try and do that with one set of hands! To perform all that live by yourself would be difficult, if not impossible!

However, if you record your Pattern playback plus the Cutoff and Resonance tweaking to the Performance Recorder beforehand, you can work the Live Effector controls onstage as much as you want, while the DJX-II plays back your recorded performance!



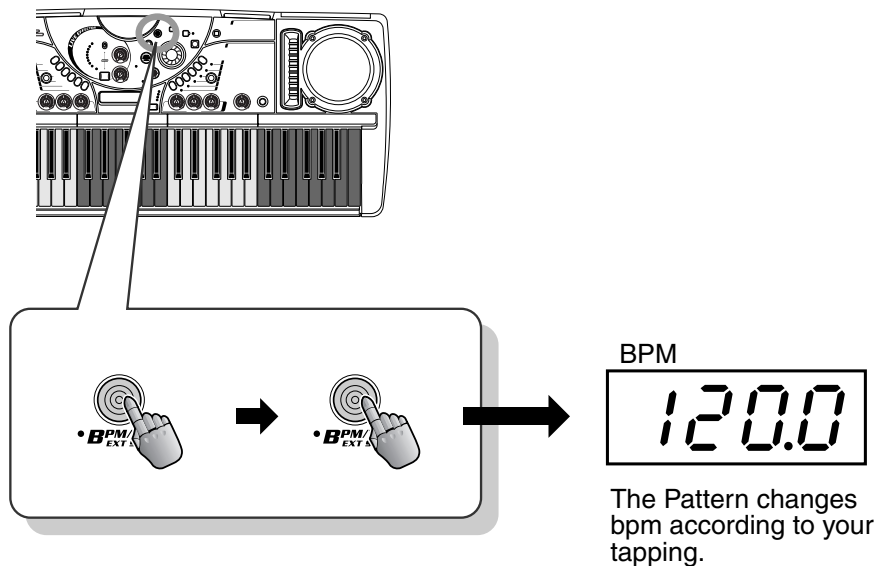
◆ NOTE:

To erase the recorded performance, simultaneously hold down the RECORD button and press the appropriate PLAYER Pad (the one containing the performance you wish to erase). After about three seconds, the performance data is erased.

Tip 78 Tap out the beat!



Change the bpm in real time! Tap the BPM/TAP button twice rhythmically, while the Pattern is running — and the bpm automatically changes to the tapped speed.



Tip 79 Start with a tap...

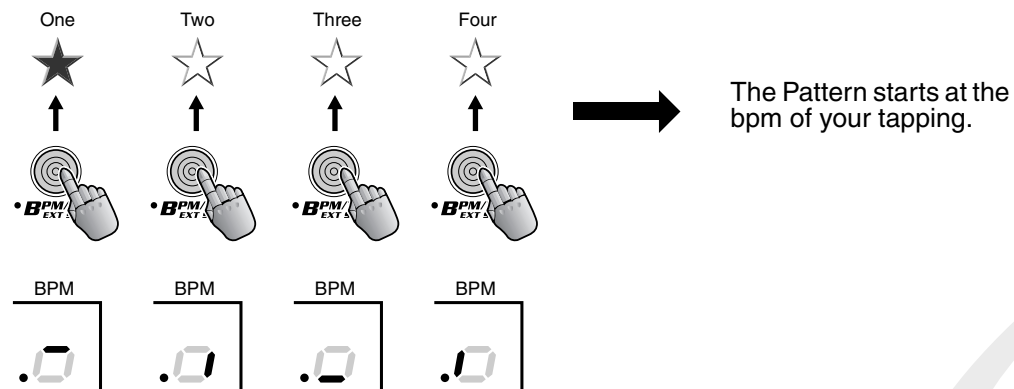


You can also get the Pattern going at whatever speed you like by simply tapping it out. Select a Pattern, then instead of hitting one of the Pattern Player, tap the BPM/TAP button — four times, in rhythm — and the Pattern starts automatically at the bpm you've tapped.

While you're tapping, the display shows each of your four taps, then displays the resulting bpm.

◆ Tech note

Only two taps are needed to start Pattern 42, since that Pattern is in 2/4 time.

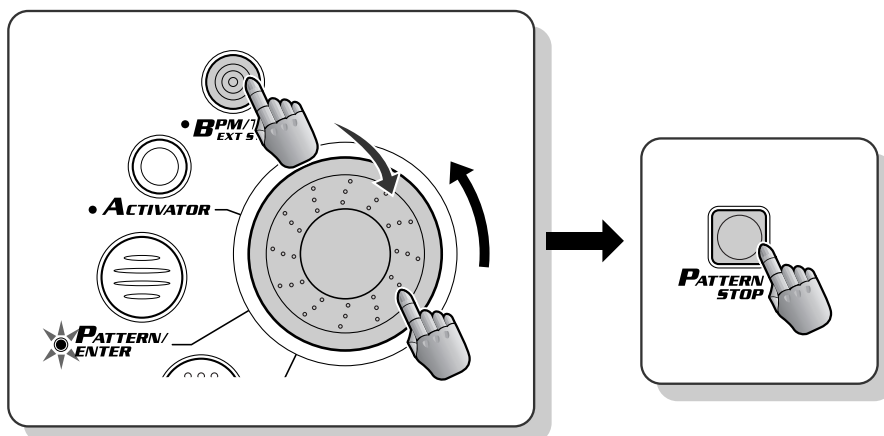


Tip 80 Down and out!



In Tip 42, you learned how to recreate the sound of a turntable grinding to a halt — here's a Variation on that trick. This slows down the speed of the Pattern without changing the pitch.

While the Pattern is running and the bpm display is active (press BPM/TAP), turn the dial and slow down the bpm gradually. After the bpm gets as slow as you want, wait until the right downbeat, then press PATTERN STOP to stop the Pattern.



Tip 81 Check the bpm



Need to know what the bpm of a certain track on CD or vinyl is? Here's a convenient tool! Just tap out the rhythm of the music as you listen to it, and the DJX-II displays the bpm for you — automatically! (Make sure to turn down the MASTER VOLUME to keep the DJX-II Pattern from sounding.)



120.0

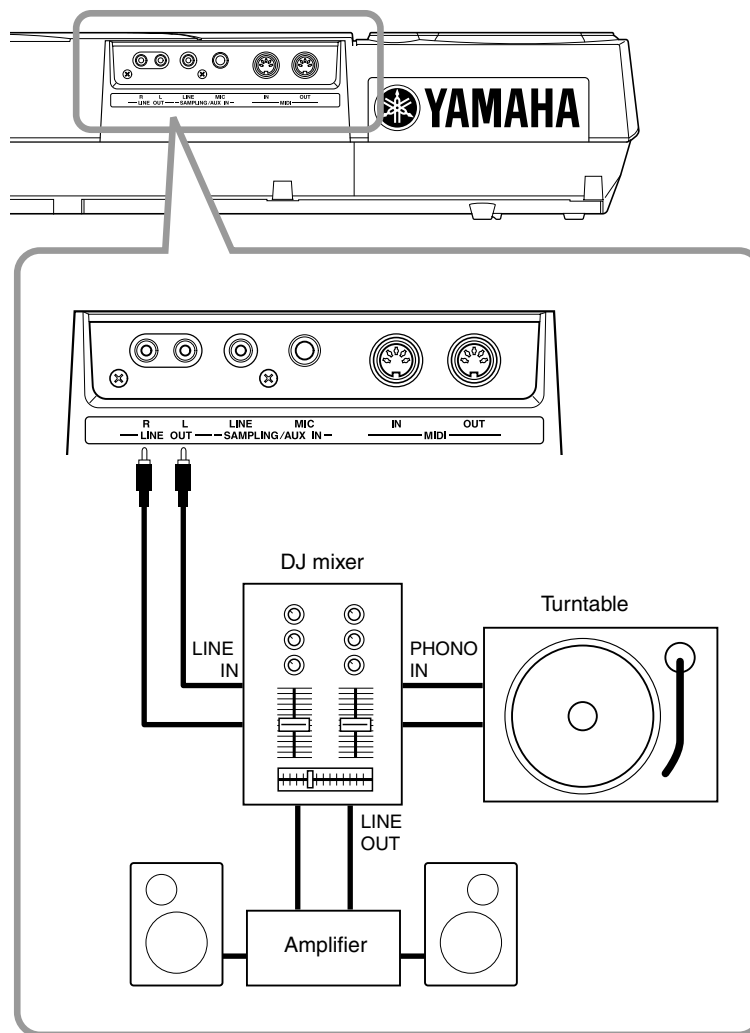
The Outside World

Here are a couple of tips that get you started interfacing the DJX-II with external gear. Go for it, and get your sound out there!

Tip 82 Expanding your DJ setup



The DJX-II can easily do double-duty as part of a larger DJ setup. For example, you can connect the LINE OUT jacks to two of the inputs of a DJ mixer. Hook up a turntable to the other channels of the DJ mixer, and you've got a full dance production setup to rival the pros! This way you can play the DJX-II as well as your favorite vinyl tracks, and mix and switch them with the controls on the DJ mixer.



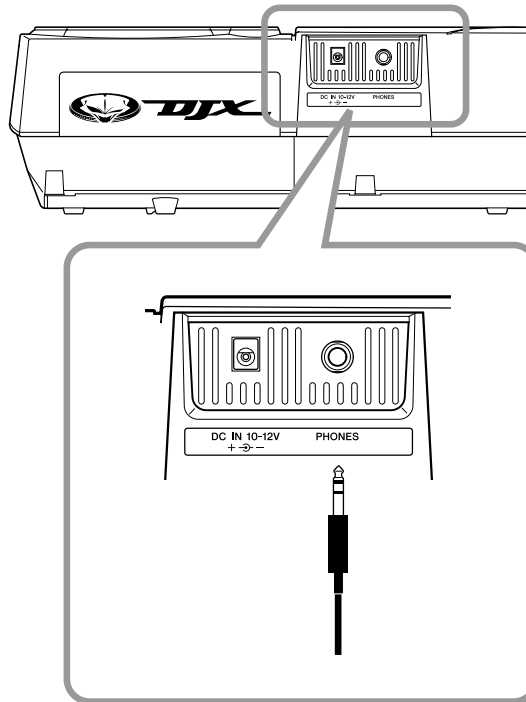
Naturally, you can also hook your DJX-II up to an MD recorder or cassette deck and record your DJ performances to disk or tape.

Tip 83 Mute the speakers



If you're routing the DJX-II's sound to a DJ mixer or external amplifier/speaker system, you may want to cut off the sound of the DJX-II's built-in speakers. Easy! Simply insert a phone plug into the PHONES jack — or hook up a set of stereo headphones for monitoring the DJX-II sound.

Naturally, even when the built-in speakers are muted in this way, audio is still output through the LINE OUT jacks.



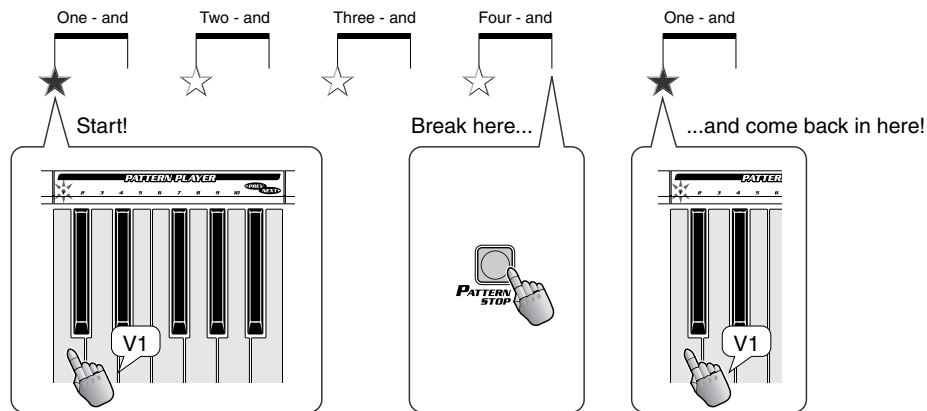
DJ Performance Master Class

Take it up to the next level! Use these advanced tips as a springboard to explore all the amazing DJ possibilities — and become a true mixing virtuoso!

Tip 84 Creative fill-in 3



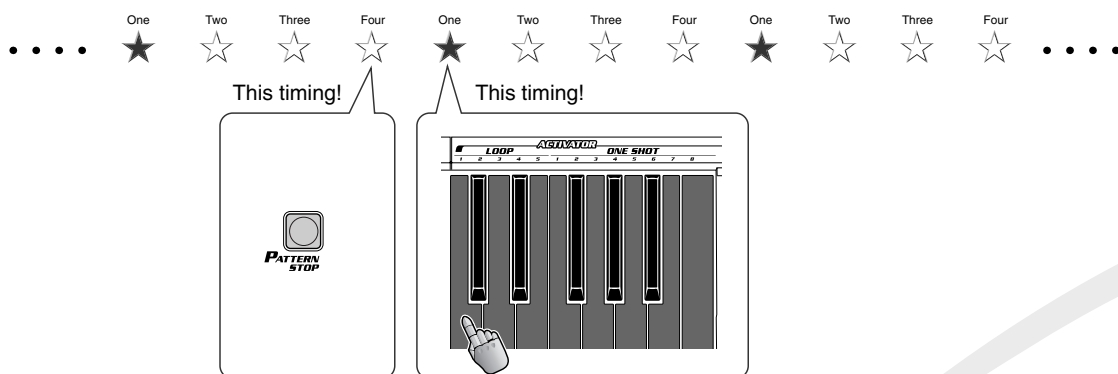
Here's a cool technique for stopping the Pattern and coming back in with the rhythm. Select P14 and start with V1. Then, hit PATTERN STOP and the same Variation as shown. You may want to slow down the bpm — to better help you hear where to play the changes!



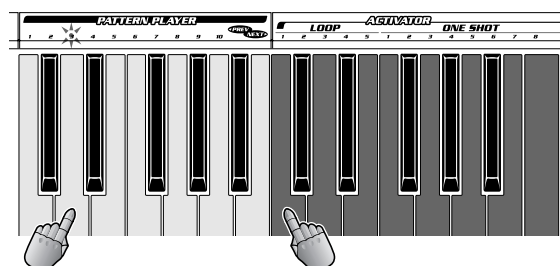
Tip 85 Break to a new beat



Here's a trick that lets you switch between two different rhythms. Select P16 and A02, then start V1. Let the Pattern loop a while, then just before the "one" downbeat (of the bar you want to change at), press PATTERN STOP to stop the Pattern. Then, right on the "one," press Loop1. If you do it just right, there will be a short break in the rhythm, just before the Loop kicks in — right on the beat! It's just like switching between two turntables!



To go back from the Loop to the Pattern, press V2 and Loop1 at the same time — right on the "one"!



Start the new Variation. Stop Loop 1.

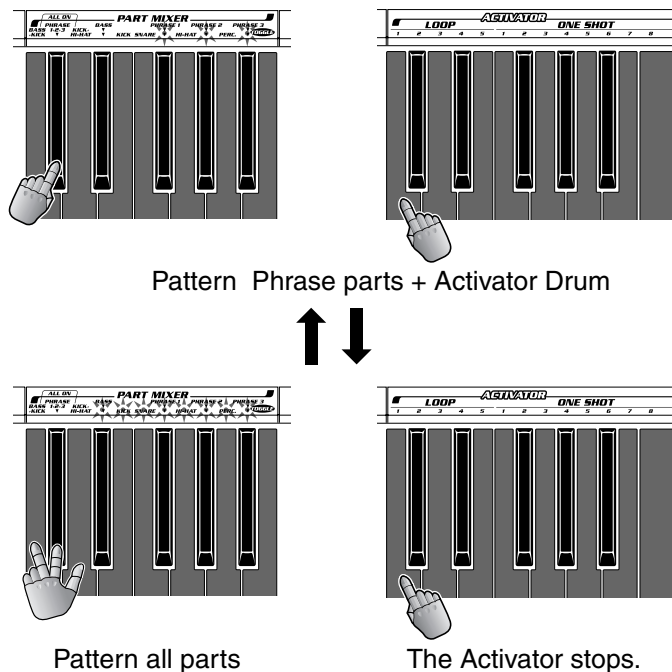
Tip 86 Switch the drums!



Try this slick trick! Here, you'll keep the Phrase Parts of a Pattern going, but slip in a different rhythm to back it up. This is a technique the pros use to switch the beat around, yet still maintain the flow!

Select P17 and A02, then start V8. Then, on the "one," press PHRASE1+2+3 of the Part Mixer and Activator Loop1 simultaneously. The Pattern drums drop out and the Activator Loop kicks in — all on the same beat! To go back, press ALL of the Part Mixer just before the "one," and press Activator Loop1 right on the "one."

The trick is to switch the drums smoothly. Change the groove, but stay with the flow!

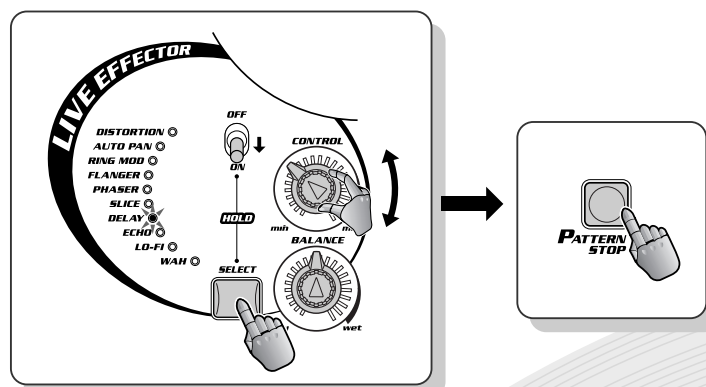


Tip 87 Outro -tro -tro -tro



Here's another popular technique from the producer's bag of tricks — ending with an echo!

Select the Delay or Echo effect. Then, on the very last beat (or last two beats) of the last bar of the Pattern, switch and hold the effect on. Then press PATTERN STOP just before the "one" of the next bar to stop the Pattern. Don't forget to keep holding the effect on! The Delay or Echo hits just the last notes of the rhythm and fades them out in a delayed repeat. Awesome!

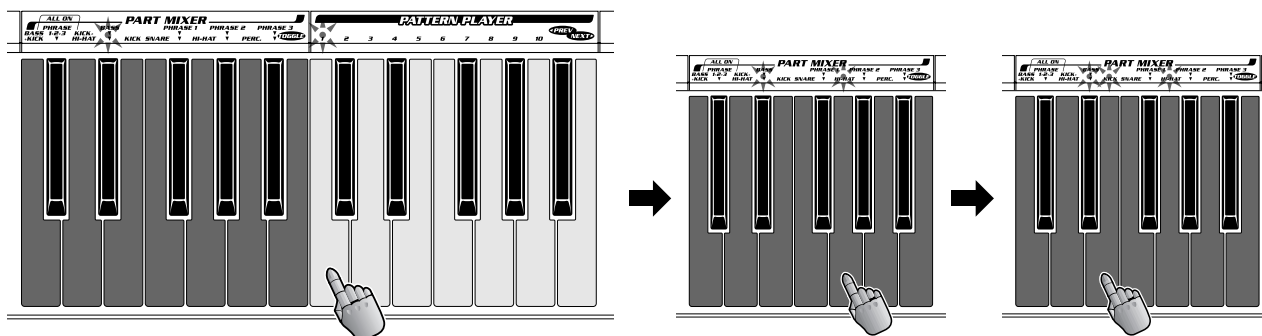


Tip 88 Upside down, inside out!



Sometimes when you play certain Parts in a Pattern by themselves, it's difficult to hear where the downbeat is. Especially in an intro. Your ears may fool you into hearing and expecting a completely different downbeat! Then, when the rest of the rhythm kicks in, it turns your feet (and whole body!) around. Like with this tricky intro!

Select P18 and set only the Bass Part to play (with the Part Mixer). Then start V1. Let the Bass play by itself for a few bars, and try to feel the downbeat. Don't worry if you can't — the other Parts will cue you into it! Now, turn on the Hi-hat, and let that play a while. Then, bring in the Kick. As soon as the Kick plays, the beat turns around, and you finally "hear" the rhythm!

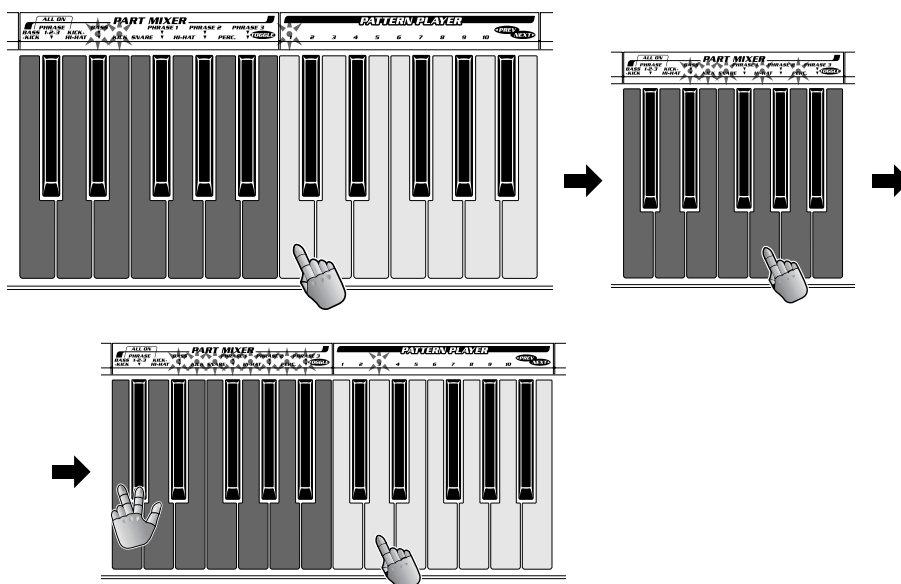


Tip 89 Buildup to a Variation



Remember Tip 64, where you built up an intro, Part-by-Part, until the whole rhythm kicked in? Here's a slightly more advanced version of that technique — in this case, the buildup leads into a different Variation!

Select P20 and set only the BASS+KICK to play (with the Part Mixer). Then start V1. Let the Bass play by itself for four bars, then bring in the Snare, Hi-hat and Percussion at the same time. Let all of that heat up for another four bars. Then — on the "one" of the next measure — turn on all of the Parts and press V3 at the same time. This is a really slick way to get the textures happening and build up your sound — and then explode into a new rhythm!



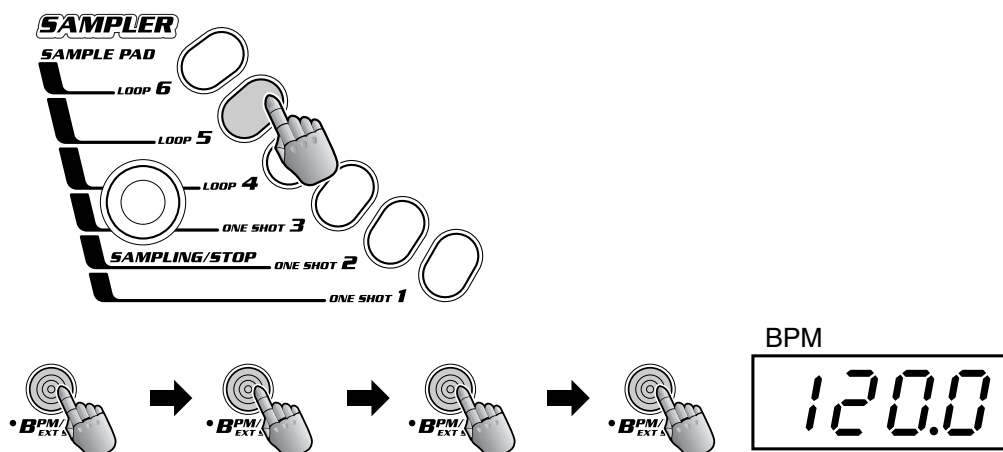


90 Sync up your samples to the Pattern!

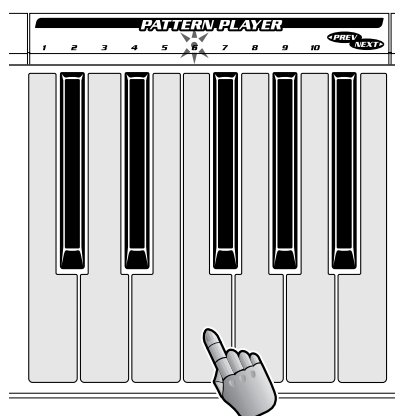
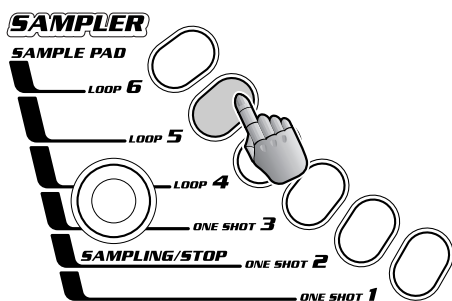


By now, you've probably got a few really hot samples recorded to the DJX-II. And maybe you're itching to use them with the Patterns. Well, here's how you can do just that — and keep everything in sync!

While playing one of your Sample Loops, listen carefully for the beat and tap it out on the BPM/TAP button.



The Pattern starts automatically at the same bpm as the Sample Loop. If the Loop and Pattern drift out of sync, adjust the bpm accordingly and re-start the Pattern at the “one” downbeat of the Loop. Alternately, you may want to re-start the Loop every four bars (or whatever is necessary) by double-clicking the Loop Pad. Make sure to do it on the “one”!



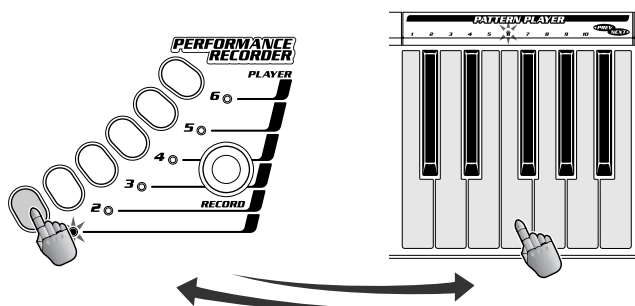
Tip 91 Play a Pattern, trigger a Performance



Work on using the Pattern Player and Performance Player in tandem for your onstage mixes — both give you so much more than you get with either one alone!

When you're playing a Pattern, press one of the Performance Player Pads — to instantly switch over to a recorded performance. Then, instantly switch back to the Patterns again, simply by pressing one of the Pattern Player keys.

It's a good idea have a bank of your specially recorded performances loaded and ready to trigger — bringing them into your live performance when needed and using the Pattern Player and/or Activator to augment them.

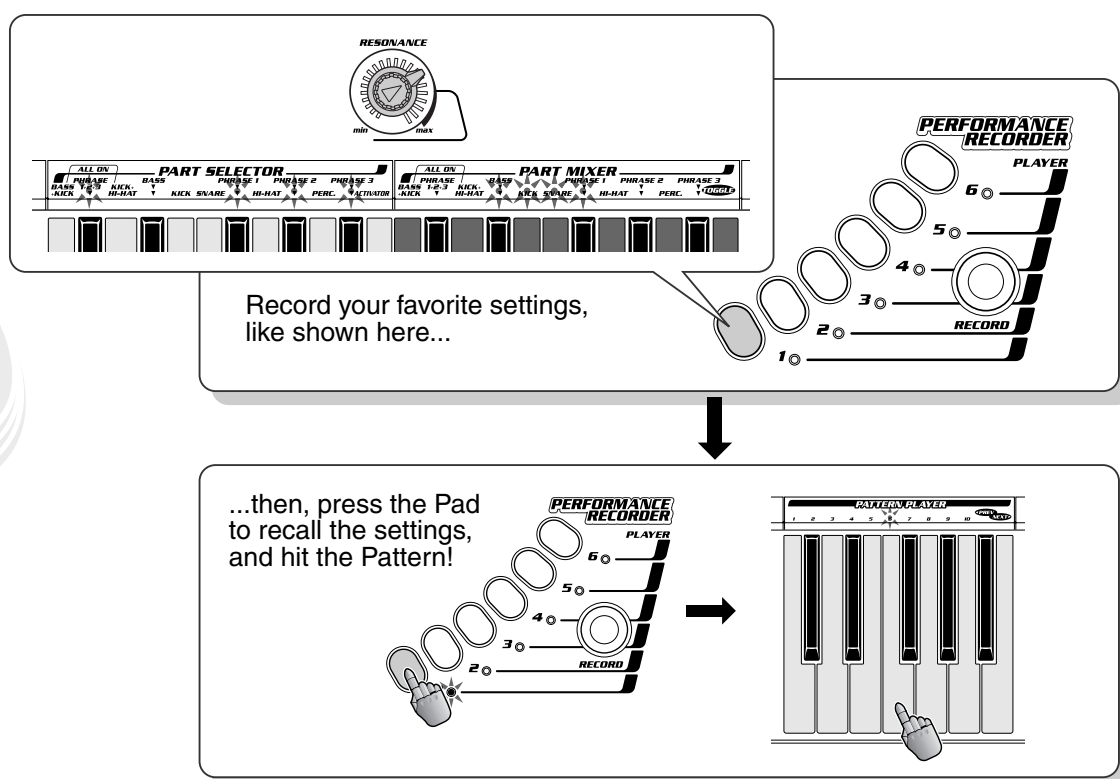


Tip 92 Recall your settings with a single shot



The Performance Recorder does double duty as a panel control “reset” function — letting you store your favorite settings for instant recall!

Start recording to one of the Player Pads and make all your desired settings — for example, setting the Part Controller and Isolator knobs to specific positions, turning on the desired Part in the Part Selector section, and selecting Parts in the Part Mixer. Then, when you want to use those settings in performance, just press the appropriate pad, and hit one of the Pattern Player keys — and you're happening!

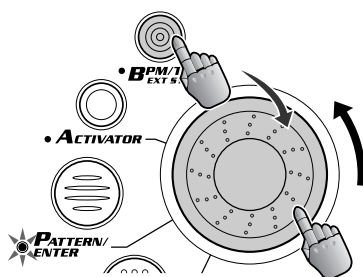


Tip 93 Taking the pulse



The DJX-II has a variety of bpm-related tools that help you get the proper bpm — such as tapping it out (Tip 78) or capturing the bpm from an external source (Tip 94 below). Sometimes you may find it difficult or impossible to get an accurate reading, however. In the end, the best tools are your ears!

Use the AUDIO BPM COUNTER or Tap function to zero in (as close as possible) on the bpm of an external source. Then, to fine tune the bpm reading, start the Pattern Player on the “one” downbeat of the source music. If the beats stay in sync for several bars, you’ve got the right bpm! If the beats drift apart, try adjusting the bpm manually, re-starting the Pattern on the “one” each time. Eventually, you’ll hone in on the proper bpm!



Tip 94 Auto-adjusting the bpm

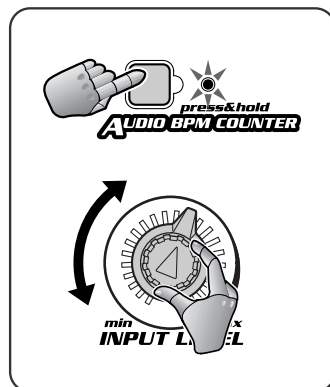
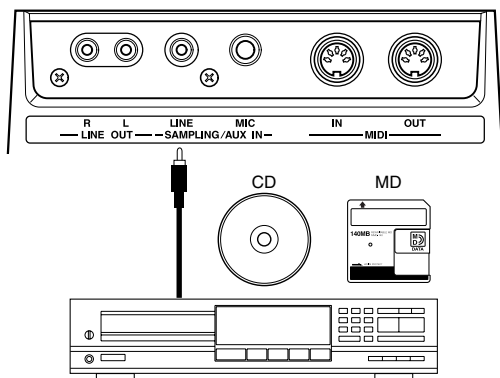


Got a favorite beat on CD or vinyl that you want to sync to the DJX-II? This powerful function lets you do just that!

The DJX-II “hears” the beat (from a connected external sound source) and automatically locks into the rhythm by auto-adjusting the bpm of the currently playing Pattern.

To use this, connect a CD player or turntable and mixer (as shown), and play the source music. Then, press and hold the AUDIO BPM COUNTER button and adjust the INPUT LEVEL dial until the lamp flashes. The optimum setting is when the lamp flashes only at each downbeat in the source music. For best results, try narrowing in on the bpm roughly at first by tapping it out (Tip 78), then using the auto-adjust function.

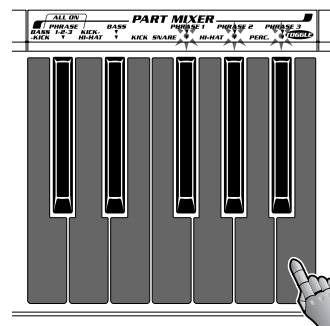
Most dance music (such as techno or house) that have a prominent kick and bass sound only on the downbeat are ideal for this function. Keep in mind, however, that some kinds of source music may not work with this. If that’s the case, again use the Tap function (Tip 78) to lock into the bpm.



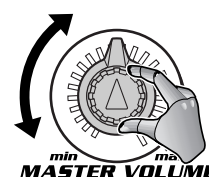
95 Toggling on beat, muting in rhythm

Now that you've got your rhythm skills down, try out some of these more complicated maneuvers!

Try using the TOGGLE key (in the Part Mixer) rhythmically. Set the Part Mixer up so that only Phrase 1, 2, and 3 are playing — then play the TOGGLE key on every beat of the Pattern, so that the Parts alternate in rhythm. Try other playing Patterns as well — such as hitting TOGGLE twice every beat (in 1/8 notes), or playing even more complicated, syncopated rhythms.



To get a simple dropout at the end of a bar, whip the Master Volume down on the 4th beat, and bring it back up instantly on (or just slightly before) the “one.”



96 Sync applications – using the DJX-II as the master

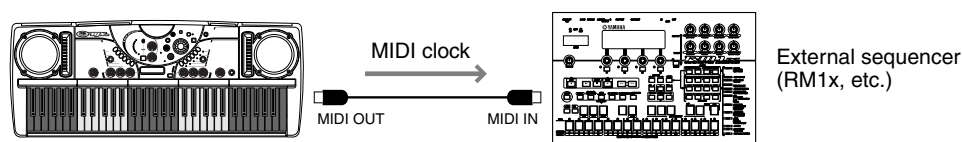
The advanced sync features of the DJX-II let you lock it together with the rhythm and bpm of another device, such as a DJX-IIB, another DJX-II, or an external sequencer. No drift, no slipping out of sync — the two devices stay perfectly in the same groove! This is just one of the enormous advantages of digital-based music. Try syncing two turntables together, and you'll see what we mean!

Although this is really just one feature, we've divided it into two separate tips: using the DJX-II as the master device, and using it as the slave (in Tip 97 below). If you've got a second device, try it both ways!

When the DJX-II is used as the master, you can play the Patterns of the DJX-II and have sequenced Patterns and music on an external sequencer lock into the bpm of the DJX-II.

1 Set up the DJX-II and the external device.

Use a standard MIDI cable to connect the two devices as shown.



2 Set the external device to “external sync.”

For specific instructions on changing the sync setting, refer to the owner's manual of the external device.

3 Play the DJX-II.

When you start and stop the Patterns of the DJX-II, the songs or Patterns on the external device start and stop at the same time. Likewise, changing the bpm on the DJX-II automatically changes the bpm of the external device. All playback operations function in perfect sync between the two machines, with the DJX-II as the master.



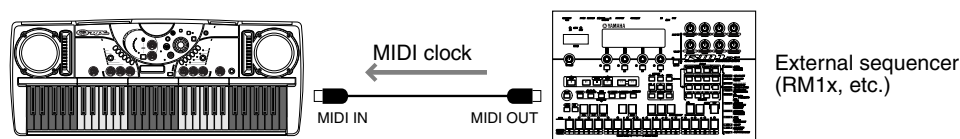
97 Sync applications – using the DJX-II as the slave



Here we'll do the opposite of Tip 96 above. This sophisticated application lets you play sequenced Patterns and song data on an external sequencer and have the Patterns of the DJX-II lock into the bpm of that device.

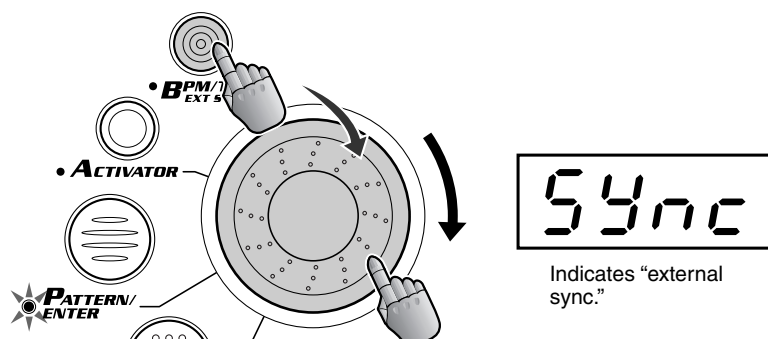
1 Set up the DJX-II and the external device.

Use a standard MIDI cable to connect the two devices as shown.



2 Set the DJX-II to “external sync.”

Simultaneously hold down BPM/TAP and turn the data dial clockwise, a couple of turns past the maximum of 280.0, until “Sync” appears in the display.



3 Play the DJX-II.

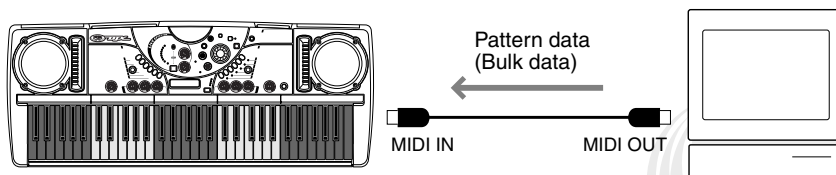
When you start and stop the song or Pattern on the external device, the Patterns of the DJX-II start and stop at the same time. Likewise, changing the bpm on the external device automatically changes the bpm of the DJX-II. All playback operations function in perfect sync between the two machines, with the external device as the master and the DJX-II as the slave.

Tip 98 Get more Patterns!



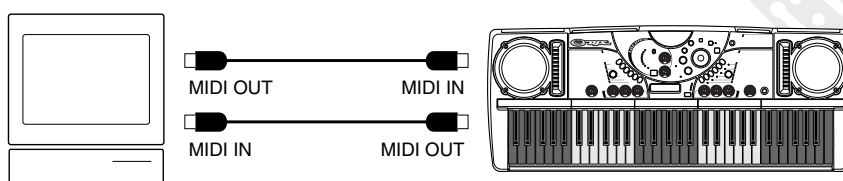
One of the great things about the DJX-II is how open-ended the system is! You can get additional Patterns from the DJX Internet Site (www.yamahadjx.com), and — with the downloadable **Pattern Launcher** software — load that Pattern data right into your DJX-II!

Once new Pattern data is loaded, select one of the Patterns U1 - U5 to play the desired Pattern. (U1 - U5 appear only when User Pattern data has been loaded to the DJX-II.) Up to five Patterns can be loaded at one time.

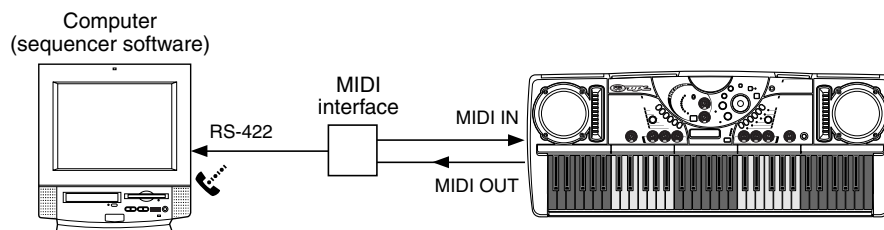


■ Connecting to a Personal Computer

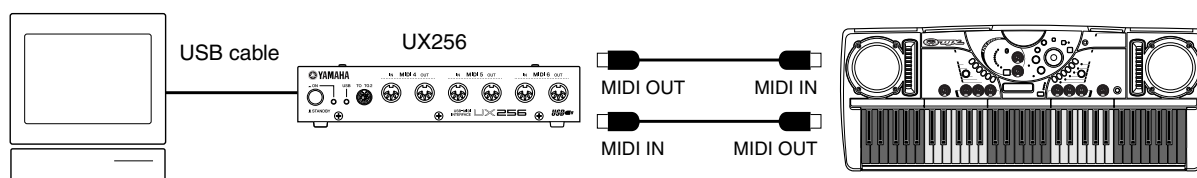
- When the computer has a MIDI interface installed, connect the MIDI OUT terminal of the personal computer to the MIDI IN terminal of the DJX-II.



- When using a MIDI interface with a Macintosh series computer, connect the RS-422 terminal of the computer (modem or printer terminal) to the appropriate MIDI interface, then connect the MIDI OUT terminal on the MIDI interface to the MIDI IN terminal of the DJX-II, as shown in the diagram below.



- When the computer has a USB interface, use the Yamaha UX256.



For details on using the **Pattern Launcher** software, refer to the online Help file in the software.

Tip 99 Using MIDI Bulk Send



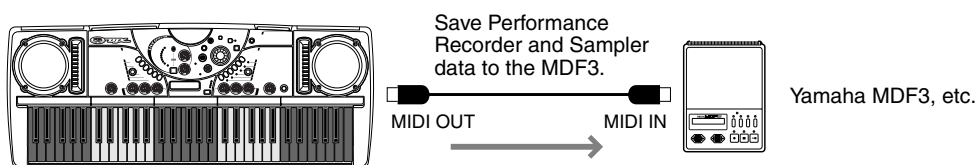
Here is another rock-solid reason to go digital! With the use of a MIDI data filer (such as the Yamaha MDF3), you can save your valuable Performance Recorder and Sampler data for future recall. What's more, this frees up extra memory space on the DJX-II for additional recording and sampling at the same time!

Bulk Send is also used for transferring Pattern data (with the help of special **Pattern Launcher** software) from a Mac or Windows compatible computer to the DJX-II. (See Tip 98 above.)

■ Sending Data •••••

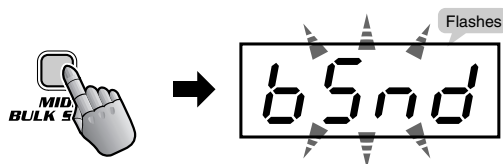
1 Set up the device for recording the data.

Use a standard MIDI cable to connect the two devices as shown.



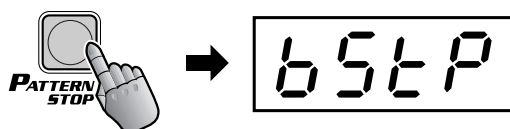
Once you've connected the DJX-II to the other device, you may need to take additional steps to set up that device. (Refer to the relevant owner's manual for details.)

2 Press MIDI BULK SEND to enable the operation.



3 Press MIDI BULK SEND again to actually send the data.

If you're not quite ready to receive data on the other device, you can cancel the operation by pressing PATTERN STOP.

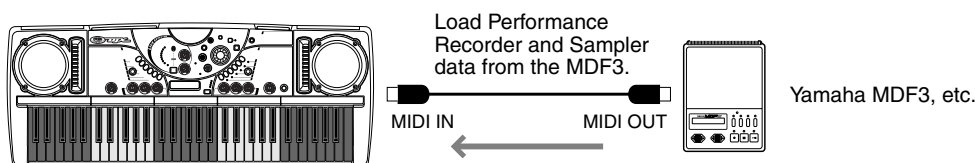


■ Receiving Data •••••

Once you've saved your DJX-II data, you can easily reload it back to the DJX-II.

1 Set up the device for sending the data.

Use a standard MIDI cable to connect the two devices as shown.



Make the proper connections and insert the appropriate (floppy) disk containing the data to the data filer. (Refer to the relevant owner's manual for details, if necessary.)

On the DJX-II side, make sure that the DJX-II is not in the middle of an operation, such as Performance Recording, Sampling, MIDI Bulk Send, etc.

2 Start sending the data from the connected device.

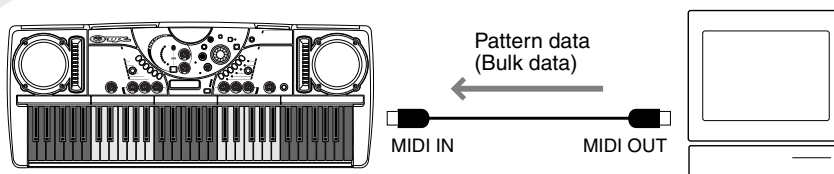
Refer to the relevant owner's manual for details. The DJX-II automatically receives the data, and loads it to the proper memory location.

Tip 100 Create your own Patterns!



Roll your own! Yes, you can even create your own Patterns — for mangling, mucking about, and mashing on the DJX-II!

Simply use a conventional MIDI sequencer software (such as XG Works) to record your original Patterns as MIDI data — then import the data to the DJX-II using the special **Pattern Launcher** software. Data for up to five Patterns (maximum of 85 KB) can be loaded to the DJX-II.

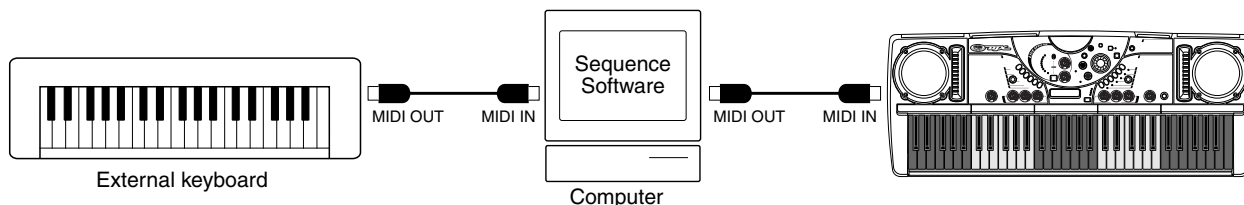


How to Create Your Own Pattern Data

As mentioned above, you can create your own original Pattern data (on an external MIDI sequencer or a computer with sequencer software) and load it to the DJX-II with the **Pattern Launcher** software.

■ Connections

Connect a MIDI keyboard and the DJX-II to the computer or sequencer as shown below. You'll be using the MIDI keyboard to enter data to the computer and play the sounds of the DJX-II.



■ Creating the Data

- Creating the data is a relatively simple procedure. However, make sure that you follow the instructions below very carefully to ensure proper creation and loading of the data.

● Recording the Parts

- Record each instrument Part over its own MIDI channel as listed below. (The DJX-II's internal tone generator responds according to these channel assignments.) To determine the specific voice used, insert appropriate program changes for each Part. (Refer to the Voice List on page 82 for program change numbers and voices.)

Part	MIDI Ch.
Kick	9
Snare	10
Hi-Hat	11
Percussion	12
Bass	13
Phrase1	14
Phrase2	15
Phrase3	16

● Recording each Variation

- Make sure to record the Variations in the order listed below. Also, enter a "marker meta-event" at the beginning of each Variation exactly as shown.

◆ NOTE:

Timing indications in these instructions are based on a resolution of 480 clocks per quarter note, and are shown in a measure:beat:clock format. For example, "1111000" indicates clock "000" of the first beat of the first measure.

- Enter the following System Exclusive message at the very beginning of the sequence (1111000), before any other data:
F0, 43, 73, 6F, 30, 00, F7 (TG Reset)
- The first measure (1111000 - 1141479) is reserved for Initial Setup data. The second measure (2111000) through to the end of Variation 10 is used for the actual Pattern data. (See chart below.)

- The timings indicated in the chart below are for example purposes only. The actual timing of the Variations and the marker meta-events (starting with Variation 2) depends on the length of the recorded Patterns. (The length of each Pattern can be up to 256 measures.)

Timing	Marker Meta-Event	Contents	
111I000 111I000 112I000 : 114I479		TG Reset Initial Setup Events	Initial Setup
211I000 : 3I4I479	1	Variation 1 2 bars Pattern (up to 256 bars)	Source Pattern
411I000 : 4I4I479	2	Variation 2 1 bar Pattern (up to 256 bars)	
511I000 : 5I4I479	3	Variation 3 1 bar Pattern (up to 256 bars)	
611I000 : 7I4I479	4	Variation 4 2 bars Pattern (up to 256 bars)	
811I000 : 9I4I479	5	Variation 5 2 bars Pattern (up to 256 bars)	
1011I000 : 11I4I479	6	Variation 6 2 bars Pattern (up to 256 bars)	
1211I000 : 12I4I479	7	Variation 7 1 bar Pattern (up to 256 bars)	
1311I000 : 13I4I479	8	Variation 8 1 bar Pattern (up to 256 bars)	
1411I000 : 15I4I479	9	Variation 9 2 bars Pattern (up to 256 bars)	
1611I000 : 17I4I479	10	Variation 10 2 bars Pattern (up to 256 bars)	

- Enter all voice and effect settings in the last three beats of the Initial Setup area (112I000 - 114I479). Do not include any note event data here.
- Start recording Variation 1 data from the second measure (211I000). The length of the data can be from 1 to 256 measures. All measures must be of one of the following time signatures: 2/4, 3/4, 4/4, or 5/4.

- Variation 2 begins from the top of the measure directly following the last measure of Variation 1. In the chart, this is listed as 411I000; however, the actual timing depends on the length of Variation 1.
- The following charts indicate the valid MIDI events for both the Initial Setup data and the Pattern data. Make sure to **NOT** enter any events marked with a dash (—), nor any events not listed here.

Channel Message

Event	Initial Setup	Pattern
Note Off	—	OK
Note On	—	OK
Program Change	OK	OK
Pitch Bend	OK	OK
Control #0 (Bank Select MSB)	OK	OK
Control #1 (Modulation)	OK	OK
Control #6 (Data Entry MSB)	OK	—
Control #7 (Master Volume)	OK	OK
Control #10 (Panpot)	OK	OK
Control #11 (Expression)	OK	OK
Control #32 (Bank Select LSB)	OK	OK
Control #38 (Data Entry LSB)	OK	—
Control #71 (Harmonic Content)	OK	OK
Control #72 (Release Time)	OK	—
Control #73 (Attack Time)	OK	—
Control #74 (Brightness)	OK	OK
Control #84 (Portamento Control)	—	OK
Control #91 (Reverb Send Level)	OK	OK
Control #93 (Chorus Send Level)	OK	OK
Control #100 (RPN LSB)	OK	—
Control #101 (RPN MSB)	OK	—

RPN & NRPN

Event	Initial Setup	Pattern
RPN (Pitch Bend Sensitivity)	OK	—
RPN (Fine Tuning)	OK	—
RPN (Null)	OK	—

System Exclusive

Event	Initial Setup	Pattern
TG Reset	OK	—
Sys Ex XG Parameter Change (Effect1)	OK	—
Reverb Type	OK	—
Chorus Type	OK	—

■ Saving and Loading the Sequence Data

- Save the completed sequence data to your computer.
- Save the file using Standard MIDI File Format 0 and make sure that the file extension “.mid” is included in the name.
- Load the Pattern file to the DJX-II using the **Pattern Launcher** software. (Refer to the online Help file in the software for specific operation instructions.)

■ About the User Pattern Data

As you create your own Patterns and use them with the DJX-II, keep in mind that these User Patterns differ from the built-in preset Patterns of the DJX-II in the following ways:

- The Activator's Auto kit (00) does not apply to the User Patterns. Select from any of the other kits (01 - 51) to use the Activator with a User Pattern.
- The actual number of taps needed to tap start a Pattern (Tip 79) depends on the time signature of the User pattern. For example, in the case of a Pattern created in 3/4 beat, tap the BPM/TAP button three times to start the Pattern.

PROBLEM	POSSIBLE CAUSE/SOLUTION
The speakers produce a “pop” sound whenever the power is turned ON or OFF.	This is normal and is no cause for alarm.
When using a mobile phone, noise is produced.	Using a mobile phone in close proximity to the DJX-II may produce interference. To prevent this, turn off the mobile phone or use it further away from the DJX-II.
The volume is reduced or the sound is distorted.	The batteries probably need to be replaced. Either replace all six batteries, or use an AC power adaptor.
The sound quality has gotten progressively worse.	
Performance Recorder/Sampler data will not play back properly.	
The display goes blank and all panel controls are reset.	
The selected voice cannot be played via the keyboard.	Check whether the DJX-II is set to the Pattern mode (page 10) or not. When set to the Pattern mode, the keyboard of the DJX-II does not function as a conventional keyboard.
Not all of the voices seem to sound, or the sound seems to be cut off.	The DJX-II is polyphonic up to a maximum of 32 notes. If Samples and Activator phrases are playing simultaneously with a Pattern, some notes/sounds may be omitted (or “stolen”) from one or more of those sections.
There is no sound even when the keyboard is played or when a Pattern is being played back.	Check that nothing is connected to the PHONES jack on the rear panel. When a set of headphones is plugged into this jack, no sound is output.
The panel buttons do not function.	Check whether MIDI bulk data is being transmitted or received. If a MIDI Bulk Send operation is in process, none of the panel buttons (with the exception of PATTERN STOP) function.
The Pattern does not start even when a PATTERN PLAYER key is pressed.	• Check whether the DJX-II is set to the Keyboard mode (page 10) or not. When set to the Keyboard mode, the keyboard of the DJX-II functions as a conventional keyboard and cannot start the Pattern or Activator. • Check whether the BPM is set to “Sync” or not by pressing the BPM/TAP button. When this is set to “Sync,” only an external MIDI device can start the DJX-II Patterns.
The Activator does not start even when an ACTIVATOR key is pressed.	
Some parts of the Pattern do not seem to sound.	• Check the Part Mixer settings. • The volume of the corresponding part might have been set to 0 by using the VOLUME knob of the PART CONTROLLER.

PROBLEM	POSSIBLE CAUSE/SOLUTION
The sound is distorted or noisy.	• Many of the DJX-II sounds have been deliberately processed or created with a “lo-fi” or “grunge” sound to suit certain styles of music. • Using the CUTOFF and RESONANCE knobs at or near the maximum settings (especially when the MASTER VOLUME knob is also at maximum) may result in distortion. • If this applies to the “Sampled” voice, you may have recorded the sample(s) at too high a level.
Sample recording begins too soon or too late.	Make sure that the INPUT LEVEL knob is set appropriately. The lower the input level, the louder the signal must be to start sampling. It is important to avoid setting the input level too high: at high levels, recording start may be triggered too soon by unintentional noise (room noise, noise on the line, etc.).
Sample recording or Performance Recording doesn’t work.	If recorded data has exceeded the maximum limit, a “Full” message appears and no further data can be recorded. Delete any unnecessary data and try again.

Error Message List

ERROR MESSAGE	DESCRIPTION
<i>Err 1</i>	This appears when the MIDI reception buffer of the DJX-II has filled up, and processing is not possible. Try decreasing the amount of data or increasing the interval time and transmit the data once again.
<i>Err 2</i>	This appears when a MIDI data reception error occurs, such as that caused by an improper connection or by use of an excessively long MIDI cable.
<i>Err 3</i>	This appears when the received bulk data contains illegal data. The illegal data is automatically cleared.
<i>Fu 11</i>	This message appears when the internal memory becomes full and no additional data can be recorded. Attempting to record to the Sampler or Performance Recorder when the internal memory is full causes this message to appear, and the DJX-II automatically stops recording. Delete unneeded data and attempt recording again.
<i>Clr</i>	This appears briefly when initializing the DJX-II to the factory preset data, by simultaneously holding down the highest (rightmost) key and turning the power on. See page 13 for details.

Specifications

● KEYBOARD 61 keys (C1~C6) ..without Touch Response

● PATTERNS Total 700 Preset Patterns and Variations	
Preset	70 Patterns
User	5 Patterns Up to 85 KB for all User Patterns
Variation	10

● ACTIVATORS

Preset	52 Kits Including Auto function (00)
Variation	13 Loop: 5, One Shot: 8

● VOICES

Preset	203 180 Voices + 23 Drum Kits
User Sampled	1

● POLYPHONY 32 notes max.

● EFFECTS

Live Effector	10 Presets Distortion, Auto Pan, Ring Modulator, Flanger, Phaser, Slice, Delay, Echo, Lo-Fi, Wah
Reverb	11 Presets Can be set only via MIDI
Chorus	7 Presets Can be set only via MIDI
3 Bands Isolator	-12dB~+12dB
Key Shifter (Transpose)	-5~0~+6
BPM (Tempo)	32~280
Audio BPM Counter	

● CONTROLLERS

Ribbon Controller	Scratch 1, Scratch 2, Pitch Bend, Pitch & BPM
Part Controller Knobs	Volume, Cutoff, Resonance
Isolator Knobs	Low, Mid, High
Live Effector Knobs	Control, Balance
Other Knobs	Input Volume, Master Volume
Part Mixer	
Part Selector	

● SAMPLER

	6 pads Loop: 3, One Shot: 3
Quality	22kHz/8bit
RAM Capacity	128 KB About six seconds for all pads (maximum three seconds for one pad)

● PERFORMANCE RECORDER

6 pads

RAM Capacity 18 KB..... Approximately 2500 events for all six Pads

● DISPLAY

Multi Display	7-seg. LED x 4 digits
Keyboard LED	LED x 27
Panel LED	LED x 23

● DEMONSTRATION

3 songs

● AUXILIARY JACKS

MIDI	MIDI IN MIDI Clock In, Remote Control, Tone Generator, Bulk Receive
	MIDI OUT MIDI Clock Out, Bulk Send
Audio	PHONES
	LINE OUT (L, R) ...RCA Pin
	MIC IN
	LINE IN.....RCA Pin

● AMPLIFIERS 6W + 6W (when using PA-5C power adaptor)

● SPEAKERS 12cm x 2 Bass Reflex, 4.5-liter enclosure x 2

● POWER SUPPLY

Adaptor	PA-5B, PA-5C
Batteries	6 x "D" size or SUM-1 or R-20

● POWER CONSUMPTION 20W

● DIMENSIONS (W x D x H)

933 x 370 x 129 mm
(36-3/4" x 14-5/8" x 5-1/6")

● WEIGHT 6.7kg (14 lbs., 12 oz.)

● SUPPLIED ACCESSORIES

Owner's Manual x 1

● OPTIONAL ACCESSORIES

Headphones	HPE-150, HPE-3
Keyboard Stand	L-2L, L-2C

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A

Activator..... Tips 7 - 12, 34, 50, 68

On the DJX-II, the Activator section contains various rhythms and sounds. You can use these to break up or interrupt the Patterns, or to add textures and accents to the Patterns.

Audio bpm Counter.....Tip 94

This powerful function lets you synchronize external audio (such as from a CD, MD, or vinyl record) with the Patterns of the DJX-II. The DJX-II monitors the beat from the audio, and automatically locks into the rhythm by auto-adjusting the bpm of the DJX-II's Pattern.

B

bpm..... Tips 6, 43, 44, 78 - 81

Abbreviation for "beats per minute." Obviously, a rhythm playing at 120 bpm would have two beats every second. The bpm value determines the speed of the rhythm — the higher the bpm, the faster the rhythm. This is also called "tempo."

Bulk Send.....Tip 99

Bulk Send is a **MIDI** function that allows you to transfer important data among various MIDI devices. With the use of a MIDI data file (such as the Yamaha MDF3), Bulk Send allows you to save your original DJX-II Performance Recorder and Sampler data for future recall. This not only lets you keep an archive of those settings, it also frees up extra memory space on the DJX-II for additional recording and sampling. Bulk Send is also used with the Pattern Launcher software for transferring Pattern data from a Mac or Windows compatible computer to the DJX-II.

F

filter Tips 36, 38, 69

Filters were originally used to process sound on analog synthesizers. The DJX-II uses the same basic filter setup to process the sound of the **Parts**. More than just "process," the filter is capable of radically altering and completely changing the character of the sound! The filter is controlled by the CUTOFF and RESONANCE knobs in the **Part Controller** section.

I

Isolator Tips 24, 62

The Isolator section provides three separate controls — Low, Mid, and High — for adjusting the tone or timbre of the sound. Like the Bass and Treble controls on a stereo

amplifier, these let you tailor the sound just the way you like to hear it.

K

key Tips 39, 40

The word "key" refers to the basic pitch of a piece of music. There are twelve keys: C, D $\flat$ (or C $\sharp$), D, E $\flat$ (or D $\sharp$), E, F, F $\sharp$ (or G $\flat$), G, A $\flat$ (or G $\sharp$), A, B $\flat$ (or A $\sharp$), and B. On the DJX-II, you can change the key by using the Key Shifter. (Knowing the names of the keys isn't important. On the DJX-II, you change the number — the amount by which the key is shifted.)

Changing keys (also called "transposing") adds variety to the music. It also is capable of changing the character of a piece, making the music brighter and more upbeat, or darker and more subdued.

L

Live Effector..... Tips 13 - 23, 51 - 61

Effects are used to process the sound and change it in various ways. In modern recording studios, almost every recorded sound is processed in some way. On the DJX-II, the Live Effector section provides ten different, high-quality effects — the same effects used by the pros in creating hot tracks.

All of the DJX-II sounds — the **Pattern**, **Activator**, and **Sampler** — are processed by these effects. A toggle switch lets you turn the effect on and off in time with the rhythm, and special **CONTROL** and **BALANCE** knobs let you tweak the effects as the Pattern plays.

Loop..... Tips 8, 12, 74

A loop is a (usually) short audio passage or phrase that is repeated indefinitely, or "looped." Originally used with tape recorders (tape loops), loops have infiltrated the world of sampling and music making in general. Sometimes loops are used to create sustained sound. More commonly (and especially on the DJX-II), loops are mainly for rhythmic phrases — drum and percussion rhythms, arpeggiator phrases, etc. In sampling, Loop is the opposite of **One Shot**.

The DJX-II Patterns are made up entirely of loops. The **Activator** and **Sampler** both have special Loop keys and pads that cycle indefinitely, creating a continuous rhythmic Pattern.

M

MIDI..... Tips 96 - 100

MIDI (Musical Instrument Digital Interface) allows electronic instruments of various types and manufacturers to

“communicate” with each other. At the most basic level, MIDI allows you to play one instrument’s sounds from the controls or keyboard of another instrument. More sophisticated uses included synchronizing two or more instruments together, exchanging data between compatible devices, or having a whole studio’s worth of keyboards, synthesizers, samplers, and rhythm machines controlled from a single computer.

Naturally, the DJX-II is MIDI compatible, and can be used effectively in any of the above scenarios. You can sync two DJX-IIs together (or the DJX-IIB), and have the bpm’s of both machines lock for synchronized playback. With the special Pattern Launcher software and a computer, you can even load new and original Patterns to the DJX-II!

O

One Shot Tips 8, 74

One Shots are audio samples that are meant to be played back once and then stopped. On the DJX-II, the **Activator** and **Sampler** both have special One Shot keys and pads that play short chunks of audio — such as sound effects, hits (like cymbal crashes, orchestra hits, etc.), and voice sound bites. In sampling, One Shot is the opposite of **Loop**.

P

Part Tips 27 - 38, 63 - 71, 86, 88, 89

The DJX-II Patterns contain up to eight separate instrument Parts — each of which has its own special function and sound within the rhythm. Specifically the Parts are: Kick, Snare, Hi-Hat, Percussion, Bass, and Phrases 1 -3.

Depending on the Pattern, each Part may have a completely different sound. For example, the Bass Part on one Pattern might be an soft acoustic upright bass, while on another Pattern it may be a buzzy synthesizer bass.

The DJX-II gives you enormous flexibility in using, controlling, and tweaking the sound of the Parts. Each Part can be played alone or in virtually any combination with the others (using the **Part Mixer**). You can single out a Part (with the **Part Selector**), and change the sound of that Part as it plays by turning the **Part Controller** knobs.

Pattern Tips 1 - 6, 45 - 50

Patterns are the basic building blocks of the DJX-II sound. Each Pattern is a discrete musical/rhythmic passage, that loops (or repeats) continuously. The Patterns contain different instrumental **Parts** — such as bass, kick drum, snare drum, hi-hat, percussion, and (depending on the Pattern) other pitched instruments such as guitar, organ, strings, etc. Each main Pattern has ten **Variations**, which can be used together for greater variety in performance.

Different Patterns have different lengths, but all are based on four-beat lengths called “measures.” In other words, a

Pattern may be eight beats long (two measures) or sixteen beats long (four measures), but all Patterns cycle around a basic count of “1-2-3-4.” The key to developing good rhythm and using the Patterns musically involves knowing this four-beat count and feeling it in your body!

S

Sampler Tips 72 - 75

Sampling is an important music-making technique in which short recorded audio passages are played back, usually from a keyboard or from pads. The Sampler on the DJX-II lets you record any audio source — such as from a CD, or with a microphone — and play it back as a **Loop** or as a **One Shot**.

scratch, scratching..... Tip 41

This comes from turntable playing, in which the DJ rocks the record back and forth with the needle down, creating a scratching-like noise. On the DJX-II, scratching is done with the **Ribbon Controller**.

T

Tap Tips 78, 79, 81, 93

The DJX-II has a convenient Tap function that allows you to change or set the bpm of the instrument simply by tapping out a steady rhythm on the BPM/TAP button. This can be used to automatically start a Pattern at the tapped speed, or it can be used to instantly change the bpm of a currently playing Pattern.

V

Variation Tips 2, 45, 46, 50, 89

Each of the 70 **Patterns** of the DJX-II actually contains ten separate Patterns, called “Variations.” Each Variation, as its name implies, is a different version of the basic Pattern rhythm. There are two types of Variations, main and fill-in. Main Variations are used for the constant rhythm of the music, while fill-in Variations are usually used as dynamic breaks and transitions. In general, the higher the Variation number, the busier or more complex the rhythm becomes.

Voice Tips 25, 26

When the DJX-II is set to the Keyboard mode, the keys can be used in the conventional way — to play a single instrument sound across the entire keyboard. These instrument sounds are called “voices.” Although only one voice can be played at one time, the DJX-II is packed with many different voices — such as piano, organ, guitar, strings, synthesizer, and many others.

Pattern List

Pattern No.	Category Name	Pattern Name
00	TECHNO	Berlin Techno
01		Japan Beatz
02		Detroit 2000
03		Parade Beat
04		French Techno
05		Detroit
06	UNDERGROUND	Acid Techno
07		German Underground
08		Loop Techno
09	DISCOMANIA	UK Disco
10		US Disco
11		Disco House
12	CLUB VIBES	Dub House
13		Dark House
14		Chicago House
15		Ibiza
16		Progressive House
17		Hard House
18	TRANCE TRAXX	Hard Trance
19		Acid Trance
20		Euro Trance
21		Goa
22		Dream Trax
23		Eurobeat
24	ELEKTRO EMPIRE	Elektro Beat
25		Breakdance
26		Elektromix
27		Technoelectro
28	GARAGE	London Underground
29		Speed Garage
30		UK Garage
31	DRUM'N'BASS	Jungle Beatz
32		Breakbeat
33		Hard Step 8th
34		Jazz D&B

Pattern No.	Category Name	Pattern Name
35	HIP HOP	Hard Hip Hop
36		Hardcore
37		Pop
38		Rock Hop
39	SPACE HOP	Futuristic
40		Cosmic
41	SWING HOP	Universal
42		Live
43		Miami
44		Jazzy
45		Los Angeles
46	GANGSTA	Mechanical
47		Psyco
48		Bangin'
49		Smooth
50		Light
51		R&B
52	INTELLIGENT	Female
53		Soul
54		Busy
55		Laid Back
56	FUNKY HIP HOP	Landscape
57		Cool
58		Jam'n
59		Club Funk
60	OLD SKOOL	Hard Funk
61		80's
62		Scratchin'
63		Breakz
64	TRIP HOP	Beat Street
65		Deep
66		Ambient
67		Dreamy
68		Grunge
69		Dark

Activator List

Activator No.	Category Name	Activator Name
0	AUTO	Auto
1	TECHNO X-TRA	Techno X-tra 1
2		Techno X-tra 2
3		Techno X-tra 3
4		Techno X-tra 4
5		Techno X-tra 5
6	BASIC DJ TOOLS	Basic DJ Tools 1
7		Basic DJ Tools 2
8		Basic DJ Tools 3
9		Basic DJ Tools 4
10		Basic DJ Tools 5
11	ROBOTS E-WERK	Robots E-Werk 1
12		Robots E-Werk 2
13		Robots E-Werk 3
14		Robots E-Werk 4
15		Robots E-Werk 5
16	IN DA HOUSE	In Da House 1
17		In Da House 2
18		In Da House 3
19		In Da House 4
20		In Da House 5
21	MYSTIC HORIZONS	Mystic Horizons 1
22		Mystic Horizons 2
23	ACID VIBES	Acid Vibes 1
24		Acid Vibes 2
25		Acid Vibes 3
26		Acid Vibes 4
27		Acid Vibes 5

Activator No.	Category Name	Activator Name
28	HIP HOP X-TRA	Hip Hop X-tra 1
29		Hip Hop X-tra 2
30		Hip Hop X-tra 3
31		Hip Hop X-tra 4
32		Hip Hop X-tra 5
33	GROOVE ELEMENTS	Groove Elements 1
34		Groove Elements 2
35		Groove Elements 3
36		Groove Elements 4
37		Groove Elements 5
38	VINYL LAB	Vinyl Lab 1
39		Vinyl Lab 2
40		Vinyl Lab 3
41		Vinyl Lab 4
42		Vinyl Lab 5
43		Vinyl Lab 6
44	JAZZY ZONE	Jazzy Zone 1
45		Jazzy Zone 2
46	SCRATCH MASTERS	Scratch Masters 1
47		Scratch Masters 2
48	FREESTYLERS ERA	Freestylers Era 1
49		Freestylers Era 2
50		Freestylers Era 3
51		Freestylers Era 4

Appendix

Voice List

Voice #	Bank Select		MIDI	Voice Name
	MSB	LSB	Program Change#	
HYPER MIX				
000	0	123	96	DJX-II
KEYBOARD				
001	0	112	4	Funky EP
002	0	0	1	Bright Piano
003	0	0	7	Clavi
004	0	0	9	Glocken
005	0	0	11	Vibes
006	0	0	12	Marimba
ELECTRIC PAD				
007	0	112	17	Jazz Organ
008	0	112	18	Rock Organ
009	0	113	16	Cheez Organ
010	0	114	17	Miss U
011	0	115	17	R&B Organ
012	0	0	17	Perc Organ
SYNTH PAD				
013	0	112	90	Sequenza
014	0	112	94	Insomnia
015	0	112	95	Wave 2001
016	0	113	91	Amber
017	0	112	91	Trance
018	0	0	89	Warm Pad
019	0	0	90	Poly Synth Pad
020	0	0	92	Bowed Pad
021	0	0	94	Halo Pad
022	0	0	95	Sweep Pad
ACOUSTIC PAD				
023	0	112	48	Strings 1
024	0	112	50	Syn Strings
025	0	113	50	String Pad
026	0	0	48	Strings 2
027	0	0	49	Strings 3
028	0	0	52	Choir Aah
GUITAR				
029	0	113	26	Octave
030	0	112	27	Clean 1
031	0	113	27	60's Clean
032	0	112	28	Muted
033	0	0	26	Jazz
034	0	0	27	Clean 2
035	0	0	30	Dist.
036	0	112	30	Dist.5th
SYNTH LEAD				
037	0	115	84	Fuzz line
038	0	113	84	Talkbox
039	0	114	84	Acid Sync
040	0	112	84	Adrenaline
041	0	112	85	Fragile
042	0	112	83	Cut Glass
043	0	0	82	Calliope Lead
BASS LEAD				
044	0	112	87	Killer S
045	0	118	87	Reso-X
046	0	117	87	Choppy
047	0	115	87	Happy Vibes
048	0	116	87	Tri Touch
049	0	119	87	Sync
050	0	0	87	Bass&Lead

Voice #	Bank Select		MIDI	Voice Name
	MSB	LSB	Program Change#	
SQUARE LEAD				
051	0	116	80	Alien
052	0	115	80	Psyche
053	0	112	80	Square Lead1
054	0	113	80	Square Lead2
055	0	0	80	Square Lead3
SAW LEAD				
056	0	122	81	Breaklt
057	0	117	80	MC-Line
058	0	117	81	Scary
059	0	120	81	Movelt
060	0	119	81	Robot Lead
061	0	116	81	Fat
062	0	115	81	Seq Ana
063	0	118	81	Stab
064	0	112	81	Saw Lead1
065	0	113	81	Saw Lead2
066	0	0	81	Saw Lead3
ACOUSTIC LEAD				
067	0	112	73	Coco Flute
068	0	112	61	Bright Brass
069	0	114	62	Techno Brass
070	0	113	62	Jump Brass
071	0	0	56	Trumpet
072	0	0	59	Mute. Trumpet
073	0	0	61	Brass Section
074	0	0	62	Synth Brass1
075	0	0	63	Synth Brass2
076	0	0	65	Alto Sax
077	0	0	73	Flute
RESONANCE BASS				
078	0	113	38	Techno Bass
079	0	116	38	Kickin'B
080	0	114	38	Bassline
081	0	117	38	NuFloor
082	0	115	38	Fish303
083	0	119	38	NuSwing
084	0	112	38	Synth Bass1
085	0	0	38	Synth Bass2
ANALOG BASS				
086	0	112	39	Analog Bass
087	0	114	39	Snap Bass
088	0	115	39	Old Mini
089	0	116	39	Power Bass
090	0	117	39	Dub Bass
091	0	118	39	Factory
092	0	119	39	Hyper
093	0	120	38	Hard-Syn
094	0	120	39	Dist-Syn
095	0	121	39	Techno
096	0	113	39	Blip Bass
097	0	118	38	H-Bass
098	0	121	38	Sin Bass
099	0	122	38	OB Bass
100	0	122	39	Sub Osc
101	0	0	39	Syn Bass
BASIC BASS				
102	0	112	33	Finger Bass
103	0	112	34	Pick Bass

Voice List

Voice #	Bank Select		MIDI Program Change#	Voice Name
	MSB	LSB		
104	0	112	35	Fretless
105	0	0	32	Aco. Bass
106	0	0	35	Fretless
SCRATCH				
107	0	123	80	Scratch 1F
108	0	123	81	Scratch 1B
109	0	123	82	Scratch 2F
110	0	123	83	Scratch 2B
111	0	123	84	Scratch 3F
112	0	123	85	Scratch 3B
113	0	123	86	Scratch 4F
114	0	123	87	Scratch 4B
SFX				
115	0	123	56	Reverse
116	0	112	126	Turntble
117	0	0	96	Rain
118	0	0	101	Goblins
119	0	0	102	Echoes
HIT				
120	0	113	55	Sharp Hit
121	0	113	115	Claps-X
122	0	0	113	Agogo
HUMAN VOICE				
123	0	123	0	Ain't Going Out (1)
124	0	123	1	Ain't Going Out (2)
125	0	123	2	Beat
126	0	123	3	Clap Your Hands
127	0	123	4	Club
128	0	123	5	Com On
129	0	123	6	DJ
130	0	123	7	Feel The Bass (1)
131	0	123	8	Feel The Bass (2)
132	0	123	9	Feel The Bass (3)
133	0	123	10	Huhh
134	0	123	11	Kickin'It
135	0	123	12	Massive
136	0	123	13	Movelt
137	0	123	14	My Flow Is Tight (1)
138	0	123	15	My Flow Is Tight (2)
139	0	123	16	My Flow Is Tight (3)
140	0	123	17	OK
141	0	123	18	Peace
142	0	123	19	Play That Beat (1)
143	0	123	20	Play That Beat (2)
144	0	123	21	Play That Beat (3)
145	0	123	22	Respect Is Due (1)
146	0	123	23	Respect Is Due (2)
147	0	123	24	Respect Is Due (3)
148	0	123	25	Scratchin'
149	0	123	26	The House
150	0	123	27	Uuh!
151	0	123	28	What's Going Down (1)
152	0	123	29	What's Going Down (2)
153	0	123	30	What's Going Down (3)
154	0	123	31	Wow
155	0	123	32	Yeah What's Up (1)
156	0	123	33	Yeah What's Up (2)
157	0	123	34	Yeah What's Up (3)
158	0	123	35	Yo Baby (1)
159	0	123	36	Yo Baby (2)

Voice #	Bank Select		MIDI Program Change#	Voice Name
	MSB	LSB		
160	0	123	40	I am Your DJ (robot) (1)
161	0	123	41	I am Your DJ (robot) (2)
162	0	123	42	I am Your DJ (robot) (3)
163	0	123	48	Rock The House (robot) (1)
164	0	123	49	Rock The House (robot) (2)
165	0	123	50	Rock The House (robot) (3)
166	0	123	44	Feel The Vibe (robot) (1)
167	0	123	45	Feel The Vibe (robot) (2)
168	0	123	46	Feel The Vibe (robot) (3)
169	0	123	52	The Real Bass (robot) (1)
170	0	123	53	The Real Bass (robot) (2)
171	0	123	54	The Real Bass (robot) (3)
DRUM LOOP				
172	0	123	68	Drum Loop T1
173	0	123	69	Drum Loop T2
174	0	123	70	Drum Loop T3
175	0	123	71	Drum Loop T4
HOP LOOP				
176	0	123	64	Drum Loop H1
177	0	123	65	Drum Loop H2
178	0	123	66	Drum Loop H3
179	0	123	67	Drum Loop H4
HYPER DRUM KIT				
180	127	0	5	Analog Kit1
181	127	0	8	Analog Kit2
182	127	0	10	Analog Kit3
183	127	0	13	Analog Kit1D
184	127	0	14	Analog Kit2D
185	127	0	12	RhBox Kit
186	127	0	9	Hard Kit
187	127	0	11	Break Kit
188	127	0	6	Dance Kit
189	127	0	4	Electronic Kit1
190	126	0	0	Electronic Kit2
191	126	0	1	B900 Kit
192	126	0	2	DJX Kit
193	126	0	3	BD Kit
194	126	0	4	SD Kit
195	126	0	5	HH Kit
196	126	0	6	Human Kit
197	126	0	7	Scratch Kit
BASIC DRUM KIT				
198	127	0	0	Standard Kit1
199	127	0	1	Standard Kit2
200	127	0	2	Room Kit
201	127	0	3	Rock Kit
202	127	0	7	Jazz Kit
SAMPLER				
203	-	-	-	Sampler

Appendix

Drum Kit List

- : Same as Standard Kit1.
- : Same as the kit to the immediate left.
- The Keyboard Note Numbers (#) and Note names shown in this list apply to all kits, with the exception of Voice #190 (Electronic Kit2), #191 (B900 Kit), #192 (DJX Kit), #196 (Human Kit) and #197 (Scratch Kit).
- In order to properly hear Voices #190 (Electronic Kit2), #191 (B900 Kit), and #192 (DJX Kit), play notes on the keyboard one octave lower than indicated.
- In order to properly hear Voices #196 (Human Kit) and #197 (Scratch Kit), play notes on the keyboard one octave higher than indicated.
- Key Off & Alternate Assign : These are applicable only for kits whose Bank MSB#=127.

Voice #				198	199	200	201	189	180	188	202	181	186
Bank MSB#				127	127	127	127	127	127	127	127	127	127
Bank LSB#				0	0	0	0	0	0	0	0	0	0
Program #				0	1	2	3	4	5	6	7	8	9
Keyboard	MIDI	Key	Alternate	Standard Kit1	Standard Kit2	Room Kit	Rock Kit	Electronic Kit1	Analog Kit1	Dance Kit	Jazz Kit	Analog Kit2	Hard Kit
Note#	Note	Note#	Note	off	assign								
25	C# 0	13	C# -1		3								
26	D 0	14	D -1		3								
27	D# 0	15	D# -1										
28	E 0	16	E -1										
29	F 0	17	F -1		4								
30	F# 0	18	F# -1		4								
31	G 0	19	G -1										
32	G# 0	20	G# -1										
33	A 0	21	A -1										
34	A# 0	22	A# -1										
35	B 0	23	B -1										
36	C 1	24	C 0										
37	C# 1	25	C# 0										
38	D 1	26	D 0	O									
39	D# 1	27	D# 0										
40	E 1	28	E 0	O				Reverse Cymbal					
41	F 1	29	F 0	O									
42	F# 1	30	F# 0					Hi Q					
43	G 1	31	G 0										
44	G# 1	32	G# 0										
45	A 1	33	A 0										
46	A# 1	34	A# 0										
47	B 1	35	B 0										
48	C 2	36	C 1										
49	C# 2	37	C# 1										
50	D 2	38	D 1										
51	D# 2	39	D# 1										
52	E 2	40	E 1										
53	F 2	41	F 1										
54	F# 2	42	F# 1	1									
55	G 2	43	G 1										
56	G# 2	44	G# 1	1									
57	A 2	45	A 1										
58	A# 2	46	A# 1	1									
59	B 2	47	B 1										
60	C 3	48	C 2										
61	C# 3	49	C# 2										
62	D 3	50	D 2										
63	D# 3	51	D# 2										
64	E 3	52	E 2										
65	F 3	53	F 2										
66	F# 3	54	F# 2										
67	G 3	55	G 2										
68	G# 3	56	G# 2										
69	A 3	57	A 2										
70	A# 3	58	A# 2										
71	B 3	59	B 2										
72	C 4	60	C 3										
73	C# 4	61	C# 3										
74	D 4	62	D 3										
75	D# 4	63	D# 3										
76	E 4	64	E 3										
77	F 4	65	F 3										
78	F# 4	66	F# 3										
79	G 4	67	G 3										
80	G# 4	68	G# 3										
81	A 4	69	A 3										
82	A# 4	70	A# 3										
83	B 4	71	B 3	O									
84	C 5	72	C 4	O									
85	C# 5	73	C# 4										
86	D 5	74	D 4	O									
87	D# 5	75	D# 4										
88	E 5	76	E 4										
89	F 5	77	F 4										
90	F# 5	78	F# 4										
91	G 5	79	G 4										
92	G# 5	80	G# 4		2								
93	A 5	81	A 4		2								
94	A# 5	82	A# 4										
95	B 5	83	B 4										
96	C 6	84	C 5										
97	C# 6	85	C# 5										
98	D 6	86	D 5										
99	D# 6	87	D# 5										
100	E 6	88	E 5										
101	F 6	89	F 5										
102	F# 6	90	F# 5										
103	G 6	91	G 5										
104	G# 6	92	G# 5										
105	A 6	93	A 5										
106	A# 6	94	A# 5										
107	B 6	95	B 5										
108	C 7	96	C 6										

Drum Kit List

Voice #					198	182	187	185	183	184	190
Bank MSB#					127	127	127	127	127	127	126
Bank LSB#					0	0	0	0	0	0	0
Program #					0	10	11	12	13	14	0
Keyboard	MIDI	Key	Alternate		Standard Kit1	Analog Kit3	Break Kit	RhBox Kit	Analog Kit1D	Analog Kit2D	Electronic Kit2
Note#	Note	Note#	Note	off	assign						
25	C# 0	13	C# -1		3	Surdo Mute					
26	D 0	14	D -1		3	Surdo Open					
27	D# 0	15	D# -1			Hi-O					
28	E 0	16	E -1			Whip					
29	F 0	17	F -1		4	Scratch H					
30	F# 0	18	F# -1		4	Scratch L					
31	G 0	19	G -1			Finger Snap					
32	G# 0	20	G# -1			Click					
33	A 0	21	A -1			Metronome Click					
34	A# 0	22	A# -1			Metronome Bell					
35	B 0	23	B -1			Seq Click L					
36	C 1	24	C 0			Seq Click H					
37	C# 1	25	C# 0			Brush Tap					
38	D 1	26	D 0	O		Brush Swirl					
39	D# 1	27	D# 0			Brush Slap					
40	E 1	28	E 0	O		Brush Swirl W/Attack			Reverse Cymbal		
41	F 1	29	F 0	O		Snare Roll					
42	F# 1	30	F# 0			Castanet			Hi O		
43	G 1	31	G 0			Snare H Soft	SD T9 1	SD Break 1	SD RhBox 1	SD Elec H2	SD T9 Dist 1
44	G# 1	32	G# 0			Sticks					
45	A 1	33	A 0			Bass Drum L	BD Analog	BD Break 1	BD RhBox 1	BD Ana Dist 3	BD Analog
46	A# 1	34	A# 0			Open Rim Shot		SD Break 2	SD RhBox 2		
47	B 1	35	B 0			Bass Drum M	BD Jungle 4	BD Break 2	BD RhBox 2	BD Ana Dist 1	BD Jungle 4
48	C 2	36	C 1			Bass Drum H	BD T9 1	BD Break 3	BD RhBox 3	BD Ana Dist 2	BD T9 Dist 1
49	C# 2	37	C# 1			Side Stick	T9 Side Stick	Analog Side Stick 1		Analog Side Stick 1	T9 Side Stick
50	D 2	38	D 1			Snare L	SD T9 4L	SD Break 3	SD RhBox 3	SD Ana Dist 1	SD T9 Dist 4L
51	D# 2	39	D# 1			Hand Clap					SD T8 1
52	E 2	40	E 1			Snare H Hard	SD T9 4H	SD Break 4	SD RhBox 4	SD Ana Dist 2	SD T9 Dist 4H
53	F 2	41	F 1			Floor Tom L	T9 Tom 1	Analog Tom 1		Hard Tom 1	Hard Tom 1
54	F# 2	42	F# 1		1	Hi-Hat Closed	T9 HH 1 Closed1		RhBox HH Closed 1	Ana HH Clsd Dist 1	T9 HH 1 Clsd Dist 1
55	G 2	43	G 1			Floor Tom H	T9 Tom 2	Analog Tom 2		Hard Tom 2	Hard Tom 2
56	G# 2	44	G# 1		1	Hi-Hat Pedal	T9 HH 1 Closed2		RhBox HH Closed 2	Ana HH Clsd Dist 2	T9 HH 1 Clsd Dist 2
57	A 2	45	A 1			Low Tom	T9 Tom 3	Analog Tom 3		Hard Tom 3	Hard Tom 3
58	A# 2	46	A# 1		1	Hi-Hat Open	T9 HH 1 Open 2		Rh Box HH Open	Ana HH Opn Dist	T9 HH 1 Opn Dist 2
59	B 2	47	B 1			Mid Tom L	T9 Tom 4	Analog Tom 4		Hard Tom 4	Hard Tom 4
60	C 3	48	C 2			Mid Tom H	T9 Tom 5	Analog Tom 5		Hard Tom 5	Hard Tom 5
61	C# 3	49	C# 2			Crash Cymbal 1			Rh Box Cymbal	Analog Cymbal	
62	D 3	50	D 2			High Tom	T9 Tom 6	Analog Tom 6		Hard Tom 6	Hard Tom 6
63	D# 3	51	D# 2			Ride Cymbal 1					
64	E 3	52	E 2			Chinese Cymbal	T9 HH Half Open				
65	F 3	53	F 2			Ride Cymbal Cup					
66	F# 3	54	F# 2			Tambourine					
67	G 3	55	G 2			Splash Cymbal					
68	G# 3	56	G# 2			Cowbell				Analog Cowbell	
69	A 3	57	A 2			Crash Cymbal 2					
70	A# 3	58	A# 2			Hand Clap 1					
71	B 3	59	B 2			Ride Cymbal 2					
72	C 4	60	C 3			Bongo H					
73	C# 4	61	C# 3			Bongo L					
74	D 4	62	D 3			Conga H Mute				Analog Conga H	
75	D# 4	63	D# 3			Conga H Open				Analog Conga M	
76	E 4	64	E 3			Conga L				Analog Conga L	
77	F 4	65	F 3			Timbale H					
78	F# 4	66	F# 3			Timbale L					
79	G 4	67	G 3			Agogo H					
80	G# 4	68	G# 3			Agogo L					
81	A 4	69	A 3			Cabasa					
82	A# 4	70	A# 3			Maracas				Analog Maracas	
83	B 4	71	B 3	O		Samba Whistle H					
84	C 5	72	C 4	O		Samba Whistle L					
85	C# 5	73	C# 4			Guiro Short					
86	D 5	74	D 4	O		Guiro Long					
87	D# 5	75	D# 4			Claves				Analog Claves	
88	E 5	76	E 4			Wood Block H					
89	F 5	77	F 4			Wood Block L					
90	F# 5	78	F# 4			Scratch Push					
91	G 5	79	G 4			Scratch Pull					
92	G# 5	80	G# 4		2	Triangle Mute					
93	A 5	81	A 4		2	Triangle Open					
94	A# 5	82	A# 4			Shaker					
95	B 5	83	B 4			Hand Clap 2					
96	C 6	84	C 5			Hand Clap 3					
97	C# 6	85	C# 5				Bell Tree 2			Bell Tree 2	
98	D 6	86	D 5				Bell Tree 3			Bell Tree 3	
99	D# 6	87	D# 5				BD T8 2			BD T8 2	
100	E 6	88	E 5				SD T8 4			SD T8 4	
101	F 6	89	F 5				SD T8 3H			SD T8 3H	
102	F# 6	90	F# 5				T8 HH 2 Closed1			T8 HH 2 Closed1	
103	G 6	91	G 5				T8 Cowbell			T8 Cowbell	
104	G# 6	92	G# 5				T8 HH 2 Closed2			T8 HH 2 Closed2	
105	A 6	93	A 5				T8 Tambourine			T8 Tambourine	
106	A# 6	94	A# 5				T8 HH 2 Open			T8 HH 2 Open	
107	B 6	95	B 5				T8 Guiro			T8 Guiro	
108	C 7	96	C 6				Metal			Metal	

Drum Kit List

Voice #						191	192	193	194	195	196	197
Bank MSB#						126	126	126	126	126	126	126
Bank LSB#						0	0	0	0	0	0	0
Program #						1	2	3	4	5	6	7
Keyboard	MIDI	Key	Alternate									
Note#	Note	Note#	Note	off	assign	B900 Kit	DJX Kit	BD Kit	SD Kit	HH Kit	Human Kit	Scratch Kit
25	C# 0	13	C# -1		3							
26	D 0	14	D -1		3							
27	D# 0	15	D# -1									
28	E 0	16	E -1									
29	F 0	17	F -1		4							
30	F# 0	18	F# -1		4							
31	G 0	19	G -1									
32	G# 0	20	G# -1									
33	A 0	21	A -1									
34	A# 0	22	A# -1									
35	B 0	23	B -1									
36	C 1	24	C 0					BD1	SD1	HH1	Ain'tGoingOut(1)	
37	C# 1	25	C# 0					BD2	SD2	HH2	Ain'tGoingOut(2)	
38	D 1	26	D 0	O				BD3	SD3	HH3	Beat	
39	D# 1	27	D# 0	O				BD4	SD4	HH4	ClapYourHands	
40	E 1	28	E 0	O				BD5	SD5	HH5	Club	
41	F 1	29	F 0	O				BD6	SD6	HH6	ComOn	
42	F# 1	30	F# 0					BD7	SD7	HH7	DJ	
43	G 1	31	G 0					BD8	SD8	HH8	FeelTheBass(1)	
44	G# 1	32	G# 0					BD9	SD9	HH9	FeelTheBass(2)	
45	A 1	33	A 0					BD10	SD10	HH10	FeelTheBass(3)	
46	A# 1	34	A# 0					BD11	SD11	HH11	Huhh	
47	B 1	35	B 0					BD12	SD12	HH12	Kickin'It	
48	C 2	36	C 1			BD Jungle 4	BD00 T9 Distortion	BD13	SD13	HH13	Massive	Scratch1-F
49	C# 2	37	C# 1			BD T8 2Long	BD04 T9	BD14	SD14	HH14	MoveIt	Scratch1-R
50	D 2	38	D 1			BD Jungle 1	BD09 T8 Low Long	BD15	SD15	HH15	MyFlowsTight(1)	Scratch2-F
51	D# 2	39	D# 1			BD Jungle 2	BD28 T8	BD16	SD16	HH16	MyFlowsTight(2)	Scratch2-R
52	E 2	40	E 1			BD T8 2Cont	BD47 Hard Distortion	BD17	SD17	HH17	MyFlowsTight(3)	Scratch3-F
53	F 2	41	F 1			BD Jungle 5	BD55 Jungle	BD18	SD18	HH18	OK	Scratch3-R
54	F# 2	42	F# 1	1		BD HipHop1	SD00 T8	BD19	SD19	HH19	Peace	Scratch4-F
55	G 2	43	G 1			BD HipHop2	SD03 higher	BD20	SD20	HH20	PlayThatBeat(1)	Scratch4-R
56	G# 2	44	G# 1	1		SD Jungle 1	SD12 T9 4	BD21	SD21	HH21	PlayThatBeat(2)	Scratch L
57	A 2	45	A 1			SD Jungle 2	SD23 brutal	BD22	SD22	HH22	PlayThatBeat(3)	SCR 1M
58	A# 2	46	A# 1	1		SD Jungle 3	SD24 high metal	BD23	SD23	HH23	RespectsDue(1)	SCR 2M
59	B 2	47	B 1			SD Jungle 4	SD31 Elect.2	BD24	SD24	HH24	RespectsDue(2)	SCR 3M
60	C 3	48	C 2			SD HipHop1	SD43 T9 4	BD25	SD25	HH25	RespectsDue(3)	SCR 4M
61	C# 3	49	C# 2			SD HipHop2	SD47 noisy scratch	BD26	SD26	HH26	Scratchin'	SCR 6ML
62	D 3	50	D 2			SD HipHop3	SD49 T8 3	BD27	SD27	HH27	TheHouse	SCR 7ML
63	D# 3	51	D# 2			SD Elect.1	HH00 MS Closed	BD28	SD28	HH28	Uuuuugh	TurnTable
64	E 3	52	E 2			SD Elect.2	HH00 MS Open	BD29	SD29	HH29	What'sGoingDown(1)	
65	F 3	53	F 2			SD Elect.3	HH06 T9 Hard Closed	BD30	SD30	HH30	What'sGoingDown(2)	
66	F# 3	54	F# 2			SD Elect.4	HH06 T9 Hard Open	BD31	SD31	HH31	What'sGoingDown(3)	
67	G 3	55	G 2			SD T8 3M	HH07 T8 Closed	BD32	SD32	HH32	Wow	
68	G# 3	56	G# 2			SD 78	HH07 T8 Open	BD33	SD33	HH33	YeahWhat'sUp(1)	
69	A 3	57	A 2			HH 1 Closed	HH08 FX1 Closed	BD34	SD34	HH34	YeahWhat'sUp(2)	
70	A# 3	58	A# 2			HH 2 Closed	HH08 FX1 Open	BD35	SD35	HH35	YeahWhat'sUp(3)	
71	B 3	59	B 2			HH 2 Open	HH19 T9 Closed	BD36	SD36	HH36	YoBady(1)	
72	C 4	60	C 3			HH 3 Closed	HH19 T9 Open	BD37	SD37	HH37	YoBady(2)	
73	C# 4	61	C# 3			HH 78 Open	HH29 T6 Closed	BD38	SD38	HH38	IamYourDJ(robot)(1)	
74	D 4	62	D 3			HH 4 Closed	HH29 T6 Open	BD39	SD39	HH39	IamYourDJ(robot)(2)	
75	D# 4	63	D# 3			HH 4 Open	HH31 Nat Closed	BD40	SD40	HH40	IamYourDJ(robot)(3)	
76	E 4	64	E 3			PC Snap	HH31 Nat Open	BD41	SD41	HH41	RockTheHouse(robot)(1)	
77	F 4	65	F 3			PC Tamb2	HH37 FX2 Closed	BD42	SD42	HH42	RockTheHouse(robot)(2)	
78	F# 4	66	F# 3			BD Jungle 4Long	HH37 FX2 Open	BD43	SD43	HH43	RockTheHouse(robot)(3)	
79	G 4	67	G 3			BD Analog	HH40 T9Low Closed	BD44	SD44	HH44	FeelTheVibe(robot)(1)	
80	G# 4	68	G# 3			Hit 1L	HH40 T9Low Open	BD45	SD45	HH45	FeelTheVibe(robot)(2)	
81	A 4	69	A 3			Hit 1M	HH52 T8Metal Closed	BD46	SD46	HH46	FeelTheVibe(robot)(3)	
82	A# 4	70	A# 3			Hit 1H	HH52 T8Metal Open	BD47	SD47	HH47	TheRealBass(robot)(1)	
83	B 4	71	B 3	O		Hit 2L	HH56 T9Filt. Closed	BD48	SD48	HH48	TheRealBass(robot)(2)	
84	C 5	72	C 4	O		Hit 2M	HH56 T9Filt. Open	BD49	SD49	HH49	TheRealBass(robot)(3)	
85	C# 5	73	C# 4			Hit 2H	PC00G# Clave	BD50	SD50	HH50		
86	D 5	74	D 4	O		Hit Brass 1	PC02C Pulse		SD51			
87	D# 5	75	D# 4			SCR 1L	PC02C# Pulse		SD52			
88	E 5	76	E 4			SCR 1M	PC02D Pulse		SD53			
89	F 5	77	F 4			SCR 1H	PC02D# BD		SD54			
90	F# 5	78	F# 4			SCR 2L	PC02E Tom		SD55			
91	G 5	79	G 4			SCR 2M	PC02F SD		SD56			
92	G# 5	80	G# 4	2		SCR 2H	PC02F# Pulse&Noise		SD57			
93	A 5	81	A 4	2		SCR 3L	PC02G Pulse&Noise		SD58			
94	A# 5	82	A# 4			SCR 3M	PC02G# Snaps		SD59			
95	B 5	83	B 4			SCR 3H	PC02A Noise Echo		SD60			
96	C 6	84	C 5			SCR 4L	PP Perc.C3		SD61			
97	C# 6	85	C# 5			SCR 4M	PP Perc.F3		SD62			
98	D 6	86	D 5			SCR 4H	PP Snaps		SD63			
99	D# 6	87	D# 5			SCR 6L	PP Claps Bb2		SD64			
100	E 6	88	E 5			SCR 6ML	PP Claps C3		SD65			
101	F 6	89	F 5			SCR 6MH			SD66			
102	F# 6	90	F# 5			SCR 6H			SD67			
103	G 6	91	G 5			SCR 7L			SD68			
104	G# 6	92	G# 5			SCR 7ML			SD69			
105	A 6	93	A 5			SCR 7MH			SD70			
106	A# 6	94	A# 5			SCR 7H			SD71			
107	B 6	95	B 5			Hit Brass 2						
108	C 7	96	C 6			Analog Cymbal						

MIDI Data Format MIDI

Many MIDI messages listed in the MIDI Data Format are expressed as decimal numbers, binary numbers or hexadecimal numbers. Hexadecimal numbers may include the letter “H” as a suffix. Also, “n” can freely be defined as any whole number.

To enter data/values, refer to the table below.

Decimal	Hexadecimal	Binary
0	00	0000 0000
1	01	0000 0001
2	02	0000 0010
3	03	0000 0011
4	04	0000 0100
5	05	0000 0101
6	06	0000 0110
7	07	0000 0111
8	08	0000 1000
9	09	0000 1001
10	0A	0000 1010
11	0B	0000 1011
12	0C	0000 1100
13	0D	0000 1101
14	0E	0000 1110
15	0F	0000 1111
16	10	0001 0000
17	11	0001 0001
18	12	0001 0010
19	13	0001 0011
20	14	0001 0100
21	15	0001 0101
22	16	0001 0110
23	17	0001 0111
24	18	0001 1000
25	19	0001 1001
26	1A	0001 1010
27	1B	0001 1011
28	1C	0001 1100
29	1D	0001 1101
30	1E	0001 1110
31	1F	0001 1111

Decimal	Hexadecimal	Binary
32	20	0010 0000
33	21	0010 0001
34	22	0010 0010
35	23	0010 0011
36	24	0010 0100
37	25	0010 0101
38	26	0010 0110
39	27	0010 0111
40	28	0010 1000
41	29	0010 1001
42	2A	0010 1010
43	2B	0010 1011
44	2C	0010 1100
45	2D	0010 1101
46	2E	0010 1110
47	2F	0010 1111
48	30	0011 0000
49	31	0011 0001
50	32	0011 0010
51	33	0011 0011
52	34	0011 0100
53	35	0011 0101
54	36	0011 0110
55	37	0011 0111
56	38	0011 1000
57	39	0011 1001
58	3A	0011 1010
59	3B	0011 1011
60	3C	0011 1100
61	3D	0011 1101
62	3E	0011 1110
63	3F	0011 1111

Decimal	Hexadecimal	Binary
64	40	0100 0000
65	41	0100 0001
66	42	0100 0010
67	43	0100 0011
68	44	0100 0100
69	45	0100 0101
70	46	0100 0110
71	47	0100 0111
72	48	0100 1000
73	49	0100 1001
74	4A	0100 1010
75	4B	0100 1011
76	4C	0100 1100
77	4D	0100 1101
78	4E	0100 1110
79	4F	0100 1111
80	50	0101 0000
81	51	0101 0001
82	52	0101 0010
83	53	0101 0011
84	54	0101 0100
85	55	0101 0101
86	56	0101 0110
87	57	0101 0111
88	58	0101 1000
89	59	0101 1001
90	5A	0101 1010
91	5B	0101 1011
92	5C	0101 1100
93	5D	0101 1101
94	5E	0101 1110
95	5F	0101 1111

Decimal	Hexadecimal	Binary
96	60	0110 0000
97	61	0110 0001
98	62	0110 0010
99	63	0110 0011
100	64	0110 0100
101	65	0110 0101
102	66	0110 0110
103	67	0110 0111
104	68	0110 1000
105	69	0110 1001
106	6A	0110 1010
107	6B	0110 1011
108	6C	0110 1100
109	6D	0110 1101
110	6E	0110 1110
111	6F	0110 1111
112	70	0111 0000
113	71	0111 0001
114	72	0111 0010
115	73	0111 0011
116	74	0111 0100
117	75	0111 0101
118	76	0111 0110
119	77	0111 0111
120	78	0111 1000
121	79	0111 1001
122	7A	0111 1010
123	7B	0111 1011
124	7C	0111 1100
125	7D	0111 1101
126	7E	0111 1110
127	7F	0111 1111

- Other messages not listed above include: 144-159(decimal)/9nH/1001 0000-1001 1111(binary) denotes the Note On Message for each channel (1-16). 176-191/BnH/1011 0000-1011 1111 denotes the Control Change Message for each channel (1-16). 192-207/CnH/1100 0000-1100 1111 denotes the Program Change Message for each channel (1-16). 240/FOH/1111 0000 denotes the start of a System Exclusive Message. 247/F7H/1111 0111 denotes the end of a System Exclusive Message.
- aaH (hexidecimal)/0aaaaaaa (binary) denotes the data address. The address contains High, Mid, and Low.
- bbH/0bbbbbbb denotes the byte count.
- ccH/0ccccccc denotes the check sum.
- ddH/0ddddddd denotes the data/value.

MIDI Data Format MIDI

■ Channel/Mode/Realtime Messages

o : available

MIDI Events	Status byte		1st Data byte		2nd Data byte		MIDI	
	Status		Data (HEX)	Parameter	Data (HEX)	Parameter	Transmitted	Recognized
Key Off	8nH	(n:channel no.)	kk	Key no. (0 - 127)	vv	Velocity (0 - 127)	x	o
Key On	9nH		kk	Key no. (0 - 127)	vv	Key On :vv=1 - 127 Key Off :vv=0	x	o
Control Change	BnH		0 (00H)	Bank Select MSB	0 (00H) 126, 127 (7FH)	Normal Drum kit	x	o
			32 (20H)	Bank Select LSB			x	o
			1 (01H)	Modulation	0 - 127 (...7FH)		x	o
			6 (06H)	Data Entry MSB	0 - 127 (...7FH)		x	o
			38 (26H)	Data Entry LSB	0 - 127 (...7FH)			x
			7 (07H)	Main Volume	0 - 127 (...7FH)		x	o
			10 (0AH)	Panpot	0 - 127 (...7FH)		x	o
			11 (0BH)	Expression	0 - 127 (...7FH)		x	o
			64 (40H)	Sustain (Damper)	0 - 127 (...7FH)		x	o
			71 (47H)	Harmonic Content	0 - 127 (...7FH)		x	o
			72 (48H)	Release Time	0 - 127 (...7FH)		x	o
			73 (49H)	Attack Time	0 - 127 (...7FH)		x	o
			74 (4AH)	Brightness	0 - 127 (...7FH)		x	o
			84 (54H)	Portamento Control	0 - 127 (...7FH)		x	o
			91 (5BH)	Effect1 Depth (Reverb Send Level)	0 - 127 (...7FH)		x	o
			93 (5DH)	Effect3 Depth (Chorus Send Level)	0 - 127 (...7FH)		x	o
			96 (60H)	Increment	0 - 127 (...7FH)		x	o
			97 (61H)	Decrement	0 - 127 (...7FH)			o
			100 (64H)	RPN LSB	0 - 127 (...7FH)		x	o
			101 (65H)	RPN MSB	0 - 127 (...7FH)			o
Mode Message	BnH		120 (78H)	All sound off	0		x	o
			121 (79H)	Reset all controllers	0		x	o
			123 (7BH)	All note off	0		x	o
			124 (7CH)	All note off	0		x	o
			125 (7DH)	All note off	0		x	o
			126 (7EH)	MONO	0 - 16 (...10H)		x	o
			127 (7FH)	POLY	0		x	o
Program Change	CnH		pp	Voice number (0 - 127)	-	-	x	o
Pitch Bend Change	EnH		cc	LSB	dd	MSB	x	o
RealTime Message	F8H	MIDI Clock	-		-		o	o
	FAH	Start	-		-		o	o
	FCH	Stop	-		-		o	o
	FEH	Active Sensing	-		-		x	o

■ System Exclusive Messages

Universal System Exclusive

o : available

MIDI Event	Data Format	Transmitted	Recognized
MIDI Master Volume	F0H 7FH 7FH 04H 01H ll mm F7H	x	o
	ll mm Volume (mm = 0 - 7f, ll = Ignored)		
	or F0H 7FH XN 04H 01H ll mm F7H XN when N is received N=0-F, whichever is received. X = Ignored ll mm Volume (mm = 0 - 7f, ll = Ignored)		

XG standard

MIDI Event	Data Format	Transmitted	Recognized
XG Parameter Change	F0H 43H 1nH 4CH hh mm ll dd ... F7H	x	o
	hh mm ll Address dd Data		
Bulk Dump	F0H 43H 0nH 4CH aa bb hh mm ll dd ... dd cc F7H	x	o
	0n Device Number (0 - f (receive))		
	aa bb Byte Count (aa << 7) + bb		
	hh mm ll Address		
	dd Data		

Bulk dump

MIDI Event	Data Format	Transmitted	Recognized
Performance Recorder data Bulk Dump	F0H 43H 73H 6FH 06H 0AH aa bb cc dd hh mm ll [BULK DATA] sum F7H	o	o
	6FH Model ID		
	06H Bulk ID		
	0AH Bulk No.		
	aa ByteCount MSB		
	bb ByteCount LSB		
	cc Data size (MSB)		
	dd Data size (LSB)		
	hh Address High		
	mm Address Mid		
	ll Address Low		
	[BULK DATA] Sequence data (1byte,2byte....7byte,MSBdata)		
	sum Check Sum = 0-sum (BULK DATA)		
User Pattern Data Bulk Dump	F0H 43H 73H 6FH 06H 07H aa bb cc dd hh mm ll [BULK DATA] sum F7H	x	o
	6FH Model ID		
	06H Bulk ID		
	07H Bulk No.		
	aa ByteCount MSB		
	bb ByteCount LSB		
	cc Data size (MSB)		
	dd Data size (LSB)		
	hh Address High		
	mm Address Mid		
	ll Address Low		
	[BULK DATA] User Pattern data (1byte,2byte....7byte,MSBdata)		
	sum Check Sum = 0-sum (BULK DATA)		
Sampling data Bulk Dump	F0H 43H 73H 6FH 06H 0DH aa bb cc dd hh mm ll [BULK DATA] sum F7H	o	o
	6FH Model ID		
	06H Bulk ID		
	0DH Bulk No.		
	aa ByteCount MSB		
	bb ByteCount LSB		
	cc Data size (MSB)		
	dd Data size (LSB)		
	hh Address High		
	mm Address Mid		
	ll Address Low		
	[BULK DATA] Sampling data (1byte,2byte....7byte,MSBdata)		
	sum Check Sum = 0-sum (BULK DATA)		

Others

MIDI Event	Data Format	Transmitted	Recognized
Master Tune	F0H 43H 1n 27H 30H 00H 00H mm ll cc F7H	x	o
	1n Device Number (0 - f (receive)) mm ll cc (mm << 4) + ll (1step/1cent), cc = Ignored		
TG RESET	F0H 43H 73H 6FH 30H 00H F7H	x	o

MIDI Data Format MIDI

■ MIDI Parameter Change Table

MIDI PARAMETER CHANGE TABLE (EFFECT)

Address (H)	Size (H)	Data (H)	Parameter	Transmitted	Recognized	Description	Default
2 1 0	2	00-7F	REVERB TYPE MSB	x	o	Refer to "MIDI Effect Map." 00 : basic type	01 (=HALL1)
		00-7F	REVERB TYPE LSB				00
2 1 20	2	00-7F	CHORUS TYPE MSB	x	o	Refer to "MIDI Effect Map." 00 : basic type	41 (=CHORUS1)
		00-7F	CHORUS TYPE LSB				00
2 1 40	2	00-7F	VARIATION TYPE MSB	x	o*	Refer to "MIDI Effect Map." 00 : basic type	00 (=DJ DISTORTION)
		00-7F	VARIATION TYPE LSB				00

* Between MIDI messages and panel operation (Live Effector), the last message will take priority.

■ Effect Map

REVERB BLOCK

Type MSB	Type LSB			
DEC	00	16	17	19
001	HALL 1		HALL 2	
002	ROOM		ROOM 1	ROOM 2
003	STAGE	STAGE 1	STAGE 2	
004	PLATE	PLATE 1	PLATE 2	
005...127				

If the received value does not contain an effect type in the TYPE LSB, the LSB will be set to TYPE LSB 0.

CHORUS BLOCK

Type MSB	Type LSB			
DEC	00	02	08	17
001...064	NO EFFECT			
065	CHORUS	CHORUS 2		
066	CELESTE			CHORUS 1
067	FLANGER		FLANGER 1	FLANGER 2
068...127	NO EFFECT			

If the received value does not contain an effect type in the TYPE LSB, the LSB will be set to TYPE LSB 0.

VARIATION BLOCK

Type MSB	Type LSB
DEC	00
001	DJ DISTORTION
002	DJ FLANGER
003	DJ PHASER
004	DJ DELAY
005	DJ ECHO
006	DJ RING MOD
007	DJ SLICE
008	DJ AUTO PAN
009	DJ WAH
010	DJ LO-FI

If the received value does not contain an effect type in the TYPE LSB, the LSB will be set to TYPE LSB 0.

■ About MIDI remote control

About MIDI IN channel and DJX-II parts

The individual Parts of the DJX-II respond to incoming data over the MIDI channels as listed below.

MIDI IN channel

channel	
1	Keyboard (Note / ProgramChange)
2	Sampler PAD
3	Scratch
4	Remote
5	---- Reserved ----
6	---- Reserved ----
7	---- Reserved ----
8	---- Reserved ----
9	Pattern Kick
10	Pattern Snare
11	Pattern Hi-Hat
12	Pattern Percussion
13	Pattern Bass
14	Pattern Phrase 1
15	Pattern Phrase 2
16	Pattern Phrase 3

Data received over channel 4 (Remote) is used to control the various panel controls of the DJX-II.

About MIDI remote control

Remote Control Data

Functions	Panel Operation	MIDI Data Format
Activator	ACTIVATOR LOOP1 LOOP2 LOOP3 LOOP4 LOOP5 ONE SHOT1 ONE SHOT2 ONE SHOT3 ONE SHOT4 ONE SHOT5 ONE SHOT6 ONE SHOT7 ONE SHOT8	** = Note On (7FH), Note Off (00H) Note (93H, 54H, **H) Note (93H, 55H, **H) Note (93H, 56H, **H) Note (93H, 57H, **H) Note (93H, 58H, **H) Note (93H, 59H, **H) Note (93H, 5AH, **H) Note (93H, 5BH, **H) Note (93H, 5CH, **H) Note (93H, 5DH, **H) Note (93H, 5EH, **H) Note (93H, 5FH, **H) Note (93H, 60H, **H)
	Activator Kit number selection	** = Activator Kit Number (00H - 33H) Bank Select MSB (B3H, 00H, 00H) Bank Select LSB (B3H, 20H, 02H) Program Change (C3H, **H)

MIDI Data Format MIDI

Functions	Panel Operation	MIDI Data Format
Pattern	Pattern Player Pattern Player 1 Pattern Player 2 Pattern Player 3 Pattern Player 4 Pattern Player 5 Pattern Player 6 Pattern Player 7 Pattern Player 8 Pattern Player 9 Pattern Player 10 PREV NEXT	** = Note On (7FH), Note Off (00H) Note (93H, 48H, **H) Note (93H, 49H, **H) Note (93H, 4AH, **H) Note (93H, 4BH, **H) Note (93H, 4CH, **H) Note (93H, 4DH, **H) Note (93H, 4EH, **H) Note (93H, 4FH, **H) Note (93H, 50H, **H) Note (93H, 51H, **H) Note (93H, 52H, **H) Note (93H, 53H, **H)
	Pattern number selection	Bank Select MSB (B3H, 00H, 00H) Bank Select LSB (B3H, 20H, 01H) Program Change (C3H, **H) ** = Pattern Number Preset: 00H - 45H User: 46H - 4AH
	PART MIXER setting BASS+KICK PHRASE1+2+3 KICK+HI-HAT BASS KICK SNARE PHRASE1 HI-HAT PHRASE2 PERC PHRASE3 TOGGLE	** = Note On (7FH), Note Off (00H) Note (93H, 3CH, **H) Note (93H, 3DH, **H) Note (93H, 3EH, **H) Note (93H, 3FH, **H) Note (93H, 40H, **H) Note (93H, 41H, **H) Note (93H, 42H, **H) Note (93H, 43H, **H) Note (93H, 44H, **H) Note (93H, 45H, **H) Note (93H, 46H, **H) Note (93H, 47H, **H)
	PART SELECTOR setting BASS+KICK PHRASE1+2+3 KICK+HI-HAT BASS KICK SNARE PHRASE1 HI-HAT PHRASE2 PERC PHRASE3 ACTIVATOR	** = Note On (7FH), Note Off (00H) Note (93H, 30H, **H) Note (93H, 31H, **H) Note (93H, 32H, **H) Note (93H, 33H, **H) Note (93H, 34H, **H) Note (93H, 35H, **H) Note (93H, 36H, **H) Note (93H, 37H, **H) Note (93H, 38H, **H) Note (93H, 39H, **H) Note (93H, 3AH, **H) Note (93H, 3BH, **H)
Part Controller Knobs	CUTOFF knob RESONANCE knob VOLUME knob	Brightness (B3H, 4AH, **H) Harmonic Content (B3H, 47H, **H) Volume (B3H, 07H, **H) ** = 00H - 7FH
Ribbon Controller	TYPE Select Switch SCRATCH1 SCRATCH2 PITCH BEND PITCH&BPM	Bank Select MSB (B3H, 00H, 00H) Bank Select LSB (B3H, 20H, 03H) Program Change (C3H, 00H) Program Change (C3H, 01H) Program Change (C3H, 02H) Program Change (C3H, 03H)
	Ribbon Controller operation Overall pitch control (Pitch&BPM)	Breath Controller MSB (B3H, 02H, mmH) Breath Controller LSB (B3H, 22H, llH) mm, ll: 00H - 7FH

MIDI Data Format MIDI

Functions	Panel Operation	MIDI Data Format
Live Effector	ON/OFF switch Hold/On Hold/Off	Soft Pedal (B3H, 43H, 7FH) Soft Pedal (B3H, 43H, 00H)
	Effect Type selection DISTORTION AUTO PAN RING MOD FLANGER PHASER SLICER DELAY ECHO LO-FI WAH	Bank Select MSB (B3H, 00H, 00H) Bank Select LSB (B3H, 20H, 04H) Program Change (C3H, 00H) Program Change (C3H, 01H) Program Change (C3H, 02H) Program Change (C3H, 03H) Program Change (C3H, 04H) Program Change (C3H, 05H) Program Change (C3H, 06H) Program Change (C3H, 07H) Program Change (C3H, 08H) Program Change (C3H, 09H)
	CONTROL knob BALANCE knob	Effect4 Depth (B3H, 5EH, **H) Effect5 Depth (B3H, 5FH, **H) ** : 00H - 7FH
Key Shifter	KEY SHIFTER setting 0 1 2 3 4 5 6 -5 -4 -3 -2 -1	** = Note On (7FH), Note Off (00H) Note (93H, 24H, **H) Note (93H, 25H, **H) Note (93H, 26H, **H) Note (93H, 27H, **H) Note (93H, 28H, **H) Note (93H, 29H, **H) Note (93H, 2AH, **H) Note (93H, 2BH, **H) Note (93H, 2CH, **H) Note (93H, 2DH, **H) Note (93H, 2EH, **H) Note (93H, 2FH, **H)
SAMPLE PAD	SAMPLE PAD on ONE SHOT 1 ONE SHOT 2 ONE SHOT 3 LOOP 1 LOOP 2 LOOP 3	** = Note On (7FH), Note Off (00H) Note (93H, 1EH, **H) Note (93H, 1FH, **H) Note (93H, 20H, **H) Note (93H, 21H, **H) Note (93H, 22H, **H) Note (93H, 23H, **H)
	SAMPLING/STOP button	Channel Pressure (D3H, 06H)
BPM setting	Data dial	General Purpose Controller Absolute tempo value MSB (B3H, 10H, **H) Absolute tempo value LSB (B3H, 30H, **H) Relative tempo value MSB (B3H, 11H, **H) Relative tempo value LSB (B3H, 31H, **H)
Other buttons	VOICE/KEYBOARD button PATTERN/ENTER button ACTIVATOR button BPM/TAP button PATTERN STOP button	Channel Pressure (D3H, 00H) Channel Pressure (D3H, 01H) Channel Pressure (D3H, 02H) Channel Pressure (D3H, 03H) Channel Pressure (D3H, 05H)

MIDI Implementation Chart

YAMAHA [DJ-GEAR]
Model DJX-II MIDI Implementation Chart

Date :17-MAR-2000
Version : 1.0

Function...	Transmitted	Recognized	Remarks
Basic Default Channel Changed	x x	1 - 16 1 - 16	
Mode Default Messages Altered	x x *****	3 x x	
Note Number : True voice	x *****	0 - 127 0 - 127	
Velocity Note ON Note OFF	x x	o 9nH,v=1-127 o 9nH,v=0 or 8nH	
After Key's Touch Ch's	x x	x x	
Pitch Bend	x	o	
Control Change	0,32 x 1 x 6,38 x 7,10 x 11 x 64 x 71-74 x 84 x 91,93 x 96,97 x 100,101 x	o o o o o o o o o o o	Bank Select Modulation wheel Data Entry Expression Sustain Sound Controller Portamento Control Effect Depth RPN Inc,Dec RPN LSB,MSB
Prog Change : True #	x *****	o 0 - 127	
System Exclusive	o *	o *	
: Song Pos. Common : Song Sel. : Tune	x x x	x x x	
System :Clock Real Time:Commands	o o	o o	
Aux :All Sound OFF :Reset All Cntrls :Local ON/OFF Mes- :All Notes OFF sages:Active Sensing :Reset	x x x x x x	o(120,126,127) o(121) x o(123-125) o x	
Notes: * For details, see "MIDI Data Format" on page 89.			

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FCC INFORMATION (U.S.A.)

1. IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.

2. IMPORTANT: When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product **MUST** be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.

3. NOTE: This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices. Compliance

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Relocate either this product or the device that is being affected by the interference.

Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s.

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to co-axial type cable.

If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Corporation of America, Electronic Service Division, 6600 Orangethorpe Ave, Buena Park, CA90620

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(class B)

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(standby)

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(battery)

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90 DAYS LABOR

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3. Shipping and/or insurance costs are the consumers responsibility.* Units shipped for service should be packed securely.

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IMPORTANT: Do NOT ship anything to ANY location without prior authorization. A Return Authorization (RA) will be issued that has a tracking number assigned that will expedite the servicing of your unit and provide a tracking system if needed.

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Purchased from _____ Date _____
(Retailer)

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Electronic Service Division
6600 Orangethorpe Avenue
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