SYAMAHA PORTATONE PSR-740 PSR-640

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.

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.

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-6 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.
- 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/rack 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 a floppy disk 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.

Congratulations!

You are the proud owner of a fine electronic keyboard. The Yamaha PSR-740/640 PortaTone combines the most advanced tone generation technology with state-of-the-art digital electronics and features to give you stunning sound quality with maximum musical enjoyment. A large graphic display and easy-to-use interface also greatly enhance the operability of this advanced instrument. In order to make the most of your PortaTone's features and extensive performance potential, we urge you to read the manual thoroughly while trying out the various features described. Keep the manual in a safe place for later reference.

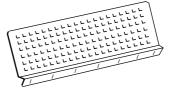
Packing List

Please check that these items have been packed with your PSR-740/640.

• PSR-740/PSR-640



• Music Stand (page 14)



Sample Disk



Owner's Manual

This product (PSR-740) is manufactured under license of U.S.Patents No.5231671, No.5301259, No.5428708, and No.5567901 of IVL Technologies Ltd.

How to use the manual

Setting Up

page 12

Before going on to any other part of the manual, we strongly suggest you read this section first. It shows you how to get started playing and using your new PSR-740/640.

Important Features

page 8

Once you've set up the PSR-740/640, you should read through this section — and explore the relevant page references — to familiarize yourself with the enormous variety of features and functions of the PSR-740/640.

Basic Operation

page 17

This section introduces you to the basic operating conventions of the PSR-740/640, such as editing values and changing settings, and shows you how to use the convenient Help and Direct Access functions.

Contents

page 6

All topics, features, functions, and operations are listed here in the order they appear in the manual, for easy reference.

Panel Controls

page 10

Use this section to find out about all of the buttons and controls of the PSR-740/640.

Panel Display Indications

page 16

This section explains the display indications of the PSR-740/640 and how to read them for optimum operation.

Function Tree

page 22

This lists all functions of the PSR-740/640 according to their hierarchical structure, letting you easily see the relationship of the various functions and quickly locate desired information.

Appendix

page 140

This contains various important lists such as the Voice List, Preset Style List, Effect List, MIDI Data Format, and MIDI Implementation Chart.

Troubleshooting

page 162

If the PSR-740/640 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.

Index

page 181

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 LCD screens as shown in this owner's manual are for instructional purposes only, and may be different from your instrument. The screens from the PSR-740 are used for the instructions and descriptions in this manual.

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Important Features

Since the PSR-740/640 has such a wealth of advanced features and functions, you may be at a loss as to how to explore its capabilities and how to best use them for your music. You needn't worry. The PSR-740/640 is very easy to play and use, and each function — no matter how advanced — can be mastered easily.

That's what this section is designed for. It will help you master the PSR-740/640. It introduces you to the important features of the PSR-740/640 with short explanations and page references. Read through the features you're interested in, then turn to the relevant pages in the manual for instructions and other details.

Basic operations

- The PSR-740/640 is packed with sophisticated feature and functions, yet it's also exceptionally easy to use. Panel operations are exceptionally quick and easy, especially with the aid of relevant "online" help messages that automatically appear in the display. (→ Page 17)
- A convenient Direct Access function lets you instantly call up the specific menu or display you need. (→ Page 21)

Listening to the PSR-740/640

- The PSR-740/640 features a wide variety of songs in various musical genres. (→ Page 15)
- In addition, 10 songs are provided in the included disk. (→ Page 76)
- The powerful auto accompaniment function gives you a total of 160 styles (rhythm and accompaniment patterns), providing professional sounding backing parts for your performance. (→ Page 34)
- Special Multi Pads let you instantly and easily play short rhythmic and melodic sequences for adding impact and variety to your performance. (→ Page 48)

Playing the PSR-740/640

- The PSR-740/640 keyboard has 61 keys with full touch-response capability that lets you play with extraordinary expressiveness and dynamic control. (→ Page 136)
- The PSR-740/640 lets you perform with a huge variety of musical instrument voices. (→ Page 26)
 - There are two different types of voices: panel voices (the original PSR-740/640 voices) and XG voices.
- * The PSR-740 features 267 panel voices, 13 drum kits, and 480 XG voices
- * The PSR-640 features 223 panel voices, 12 drum kits, and 480 XG voices
- With the R1, R2, and L voices, you can play two different voices in a layer, and even play two different voices with your right and left hands. (→ Pages 27, 28)

Auto accompaniment (styles)

- The auto accompaniment feature puts a full backing band at your fingertips, with a total of 160 styles (rhythm and accompaniment patterns). (→ Page 34)
- The One Touch Setting feature lets you instantly call up the appropriate voice, effect, and other settings for the selected accompaniment style — with the touch of a single button.
 (→ Page 44)
- The advanced Groove function gives you the power to customize the preset styles of the PSR-740 by changing the basic "feel" of the rhythm and accompaniment patterns. (PSR-740) (→ Page 45)
- You can also create your original accompaniment styles by recording them directly from the keyboard. (→ Page 110)

Multi Pads

- By simply pressing one of the Multi Pads, you can play short rhythmic or melodic phrases.
- You can also create your original Multi Pad phrases by recording them directly from the keyboard. (→ Page 106)

Registration Memory

 The convenient Registration Memory feature lets you save virtually all panel settings to one of 128 Registration Memory settings, and then instantly recall all your custom panel settings by pressing a single button. (→ Page 62)

Song Recording

- Use the powerful song recording features create your own complete, fully orchestrated compositions and save them floppy disk as a User song. Each User song lets you record up to sixteen independent tracks. (→ Page 92)
 - * To quickly and easily mold your musical ideas into complete songs, use the Quick Recording method.
 (→ Page 94)
 - To build up a song part-by-part and track-by-track, use the Multi Track Recording method. (→ Page 96)
 - You can also "fine tune" the recorded song data with the PSR-740/640's comprehensive song editing functions. (→ Pages 98-105)

Organ Flutes (PSR-740)

 This special function not only gives you a full set of rich and luscious organ sounds, it also lets you create your own original organ voices, just as on a traditional organ, by increasing and decreasing the flute footages, and adding percussive sounds. (→ Page 32)

Digital Effects

- A comprehensive set of professional-sounding digital effects are built into the PSR-740/640, letting you enhance the sound of your performance in a wide variety of ways. These include Reverb, Chorus, DSP, Harmony/Echo, and (on the PSR-740) Master EQ. (→ Page 50)
 - Reverb recreates the rich spacial ambiance of various performance environments, such as a concert hall or a night club. (→ Page 50)

- * Chorus enriches the voices by making them sound warmer and thicker — as if several instruments were playing together at the same time. (→ Page 52)
- * The DSP effects let you process the sound in special, unusual ways such as applying distortion or tremolo to a specific part. (The PSR-640 has one DSP system; the PSR-740 features three DSP systems that can be used simultaneously.) (→ Pages 53-55)
- * Harmony/Echo lets you enhance your right-hand melodies with a variety of harmony and echo effects. (→ Page 56)
- * Master EQ (on the PSR-740) gives you fine control over the overall sound by letting you adjust the tone in five separate frequency bands. (→ Page 59)

Disk Drive

 The PSR-740/640 also features a built-in disk drive that lets you save all your important original data (such as User songs, User styles, User Multi Pads, Registration Memory, etc.) to floppy disk for future recall. (→ Page 65)

Vocal Harmony (PSR-740)

 The amazing Vocal Harmony feature (on the PSR-740) automatically produces backup vocal harmonies for lead vocals that you sing into a microphone. You can even change the gender of the harmony voices — for example, letting you add female backup to your own male voice (or vice versa). (\rightarrow Page 82)

MIDI

- MIDI (Musical Instrument Digital Interface) is a worldwide standard interface that allows various electronic music instruments, computers and other devices to communicate with each other. The MIDI features let you seamlessly integrate the PSR-740/640 into a variety of systems and applications:
 - Play other instruments from the PSR-740/640. (→ Page 124)
 - * Play the sounds of the PSR-740/640 (including the auto accompaniment) from a connected keyboard. (→ Page 124)
 - Connect the PSR-740/640 directly to a computer, for advanced recording, editing and playing back of song data. (→ Page 126)
 - * Use pre-programmed templates to instantly configure the PSR-740/640 for your specific MIDI system/application.
 (→ Page 128)

Panel logos

The logos printed on the PSR-740/640 panel indicate standards/formats it supports and special features it includes.



GM System Level 1

"GM System Level 1" is an addition to the MIDI standard which guarantees that any data conforming to the standard will play accurately on any GM-compatible tone generator or synthesizer from any manufacturer.





XG is a new Yamaha MIDI specification which significantly expands and improves on the GM System Level 1 standard with greater voice handling capacity, expressive control, and effect capability while retaining full compatibility with GM. By using the PSR-740/640's XG voices, it is possible to record XG-compatible song files.

XF



The Yamaha XF format enhances the SMF (Standard MIDI File) standard with greater functionality and open-ended expandability for the future. The PSR-740/640 is capable of displaying lyrics when an XF file containing lyric data is played.

Vocal Harmony



Vocal Harmony employs state-of-the-art digital signal processing technology to automatically add appropriate vocal harmony to a lead vocal line sung by the user. Vocal Harmony can even change the character and gender of the lead voice as well as the added voices to produce a wide range of vocal harmony effects.

DOC



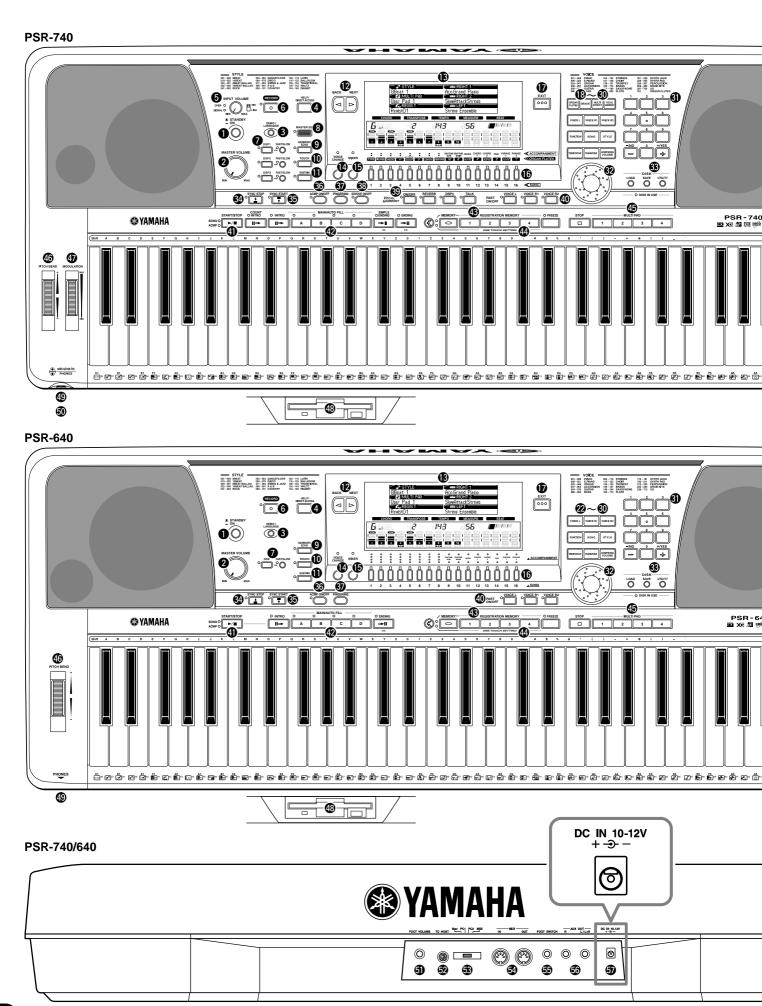
The DOC voice allocation format provides data playback compatibility with a wide range of Yamaha instruments and MIDI devices, including the Clavinova series.

Style File Format



The Style File Format — SFF — is Yamaha's original style file format which uses a unique conversion system to provide high-quality automatic accompaniment based on a wide range of chord types. The PSR-740/640 uses the SFF internally, reads optional SFF style disks, and creates SFF styles using the Style Recording feature.

Panel Controls and Terminals



Panel Controls and Terminals



Top Panel Controls		
 STANDBY/ON switch		. 15 . 15 . 21
 RECORD button		.50
DSP button (PSR-640) FAST/SLOW button		
 MASTER EQ button (PSR-740) HARMONY/ECHO button TOUCH button SUSTAIN button BACK button, NEXT button 	1 1	.50 136 .31
B LCD display		
VOICE CHANGE button MIXER button TRACK 1 - 16 buttons EXIT button		.90 78
ORGAN FLUTES button (PSR-740) GROOVE button (PSR-740) MULTI EFFECT button (PSR-740) VOCAL HARMONY button (PSR-740)		45 54
VOICE L button VOICE R1 button VOICE R2 button SONG button T7, SONG button TEMPO/TAP button RANSPOSE button ACMP/SONG VOLUME button	91, 1 25, 25,	27 27 34 76 34 38
Number buttons [1]-[0], [-/NO], [+/YES] Data dial		20
SAVE button	. 17,	70

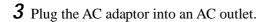
34 SYNC STOP button	43
SYNC START button	
6 ACMP ON/OFF button25,	
FINGERING button	
GROOVE ON/OFF button (PSR-740)	
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ENDING button	
SIMPLE ENDING button (PSR-740)	
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ONE TOUCH SETTING buttons	44
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Setting Up

This section contains information about setting up your PSR-740/640 and preparing to play. Be sure to go through this section carefully before turning the power on.

Power supply connections

- **1** Make sure that the STANDBY/ON switch of the PSR-740/640 is set to STANDBY.
- **2** Connect the included AC adaptor (PA-6 or other adaptor specifically recommended by Yamaha) to the power supply jack.



When turning the power OFF, simply reverse the procedure.



⚠ CAUTION

 Never interrupt the power supply (e.g. unplug the AC adaptor) during any PSR-740/640 record operation! Doing so can result in a loss of data.

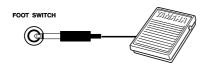
⚠ WARNING

- Use ONLY a Yamaha PA-6 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 PSR-740/640
- Unplug the AC Power Adaptor when not using the PSR-740/640, or during electrical storms.

Connecting a footswitch

■ FOOT SWITCH jack

The sustain function lets you produce a natural sustain as you play by pressing a footswitch. Plug an optional Yamaha FC4 or FC5 footswitch into this jack and use it to switch sustain on and off. The footswitch connected to this jack can also be set to replicate the functions of some panel buttons, doing things like starting and stopping accompaniment (page 137).

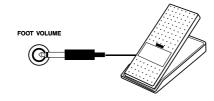


NOTE

- Be sure that you do not press the footswitch while turning the power on. If you do, the ON/OFF status of the footswitch will be reversed.
- When the sustain or sostenuto pedal functions are being used (page 137), some voices may sound continuously or have a long decay after the notes have been released while the pedal is held.

■ FOOT VOLUME jack

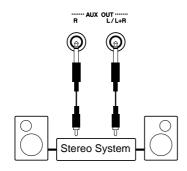
Connecting an optional Yamaha FC7 foot controller lets you use your foot to change the volume as you play the PSR-740/640 (expression function). The foot controller connected to this jack can also be set to replicate the functions of the main volume controls, such as accompaniment or song volume (page 138).



Audio equipment connections

■ AUX OUT R and L/L+R jacks

The rear-panel AUX OUT R and L/L+R jacks deliver the output of the PSR-740/640 for connection to a keyboard amplifier, stereo sound system, a mixing console, or tape recorder. If you will be connecting the PSR-740/640 to a monaural sound system, use only the L/L+R jack. When a plug is inserted into the L/L+R jack only, the left- and right-channel signals are combined and delivered via the L/L+R jack so you don't lose any of the PSR-740/640 sound (use phone plugs).



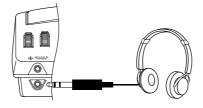
A CAUTION

Connect the PSR-740/640 to external equipment only after turning off power for all devices. To prevent damage to the speakers, set the volume of the external devices at the minimum setting before connecting them. Failure to observe these cautions may result in electric shock or equipment damage.

■ PHONES jack

A standard pair of stereo headphones can be plugged in here for private practice or late-night playing. The internal stereo speaker system is automatically shut off when a pair of head phones is plugged into the PHONES jack.

Do not listen with the headphones at high volume for long periods of time. Doing so may cause hearing loss.



Connecting a microphone (PSR-740)

⊚\cdata

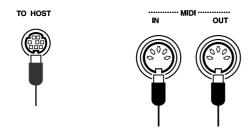
■ MIC/LINE IN jack

The PSR-740 includes a microphone/line input jack into which just about any standard microphone or line-level source with a 1/4" phone plug can be plugged (a dynamic microphone with an impedance of 250 ohms is recommended). The microphone or line input can be used with the PSR-740's vocal harmony function (pages 82). The panel MIC/LINE switch should be set according to the type of source used and the INPUT VOLUME control can be used to adjust the level of the microphone or line input signal. The SIGNAL and OVER indicators on the panel aid in setting the ideal input level: the green SIGNAL indicator should light when an input signal is present, but if the red OVER indicator lights the level should be reduced by using the INPUT VOLUME control, and if this is not sufficient, by reducing the level of the source signal itself.



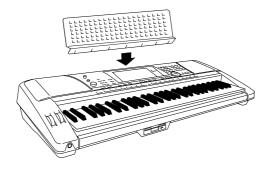
- The Yamaha MZ106s microphone is recommended for use with the PSR-740.
- The level of the microphone sound may vary considerably according to the type of microphone used.
- Turn the INPUT VOLUME control all the way down when connecting or disconnecting a microphone.
- Placing a microphone which is connected to the PSR-740 too close to the PSR-740 speakers (or those of an external sound system connected to the PSR-740) can cause feedback. Adjust the microphone position and the INPUT VOLUME level or MASTER VOLUME control level if necessary, so that feedback does not occur.

Connecting external MIDI devices



For more information on using MIDI, refer to page 123.

Music stand



The PSR-740/640 is supplied with a music stand that can be attached to the instrument by inserting it into the slot at the rear of the control panel.

Demo Song Playback

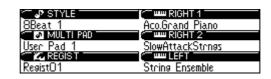
Once you've set up your PSR-740/640, try listening to the pre-programmed demonstration songs. A total of 10 demo songs (8 demo songs for PSR-640) are provided.



Turn the power ON by pressing the [STANDBY/ON] switch.

Press the [STANDBY/ON] switch again to turn the power OFF.





⚠ 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 PSR-740/640 for a long time, make sure you unplug the AC power adaptor from the wall AC outlet.



Press the [DEMO/LANGUAGE] button.

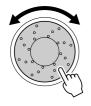


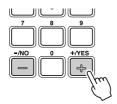




Select a demo song.

Use the **data dial**, the [+/YES] button, the [-/NO] button or the number buttons [1]-[0] to scroll to the desired demo song.

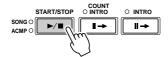








Press the [START/STOP] button to start the selected demo song.





Set a volume level with the [MASTER VOLUME] control.

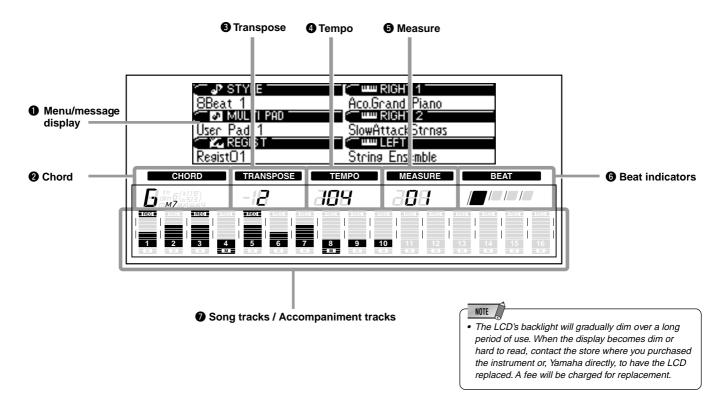




Press the [START/STOP] button again to stop the demo song.

Panel Display Indications

The PSR-740/640 features a large multi-function display that shows all important settings for the instrument. The section below briefly explains the various icons and indications in the display.



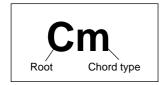
Menu/message display

This shows the menu for each function of the PSR-740/640. It also displays the relevant messages for the current operation.

See the "Basic Operation" section (page 17) for details on the menu/message display.

2 Chord

Displays the current chord name during AUTO ACCOMPANIMENT playback or SONG recording/playback (page 35).



Transpose

Shows the current transpose value (page 30).

4 Tempo

Shows the current tempo of accompaniment/ song playback (page 38).

6 Measure

Indicates the current measure number during song recording and playback.

6 Beat indicators

Flashes at the current tempo and indicates the current beat during accompaniment and song playback.



Song tracks/Accompaniment tracks

• In the Song mode (page 25) and the Demo Song mode (page 15):

The icons of all tracks indicate the on/off status and volume/velocity settings.

• In the Style mode (page 25):

The icons of tracks 9 - 16 indicate the on/off status and volume/velocity settings for each of the eight accompaniment tracks.

• In the Record mode (page 25):

The icons of all tracks indicate the on/off status and volume/velocity settimgs. The "REC" marks indicate the recording status.

Basic Operation

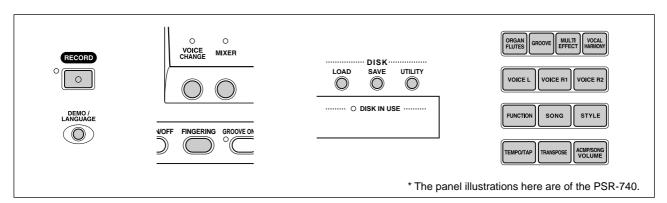
This section introduces you to the basic operations common to the various functions of the PSR-740/640. In particular, you'll learn how to use the menu/message display at the center of the front panel.

Calling up the Operation Displays	page 17
• Help	
Menu Selection	page 19
Changing (Editing) Values	
• Naming	page 21
Direct Access	page 21

Calling up the Operation Displays

Press the buttons listed below in order to call up the appropriate displays for the various functions of the PSR-740/640.

- DEMO/LANGUAGE button pages 15, 18
 VOICE R1 button page 27
 VOICE R2 button page 27
 VOICE L button page 28
 STYLE button pages 25, 34
 SONG button pages 25, 76
 MIXER button page 90
 VOICE CHANGE button pages 91, 134
 ACMP/SONG VOLUME button page 39, 78
 TRANSPOSE button page 30



Pressing one of these buttons instantly calls up the relevant display for the selected function. See the function tree chart for details (page 22).

If you've selected several different functions' displays in succession, you can "retrace your steps" and revisit each display by using the **[BACK]** and **[NEXT]** buttons at the left side of the display. Of course you can also directly select the desired displays by pressing the appropriate buttons (as listed above).



How to leave the current display

As shown in the function tree chart (page 22), there is a wide variety of functions on the PSR-740/640, each with its own corresponding display. In order to leave the display of each function press the **[EXIT]** button.



Since the PSR-740/640 has so many different displays, you may occasionally find yourself confused as to which operation's display is currently shown. If this happens, you can return to "home base" by pressing the **[EXIT]** button several times. This returns the PSR-740/640 to the default display — the same display that appears when the power is turned on.

Help — How to Read the Help/Operation Guide

Depending on the selected function or operation, the PSR-740/640 shows a variety of displays and indications. Included in these are "help" messages that guide you through the various operations.

There are two types of messages as shown below.

Help

Pressing and holding the **[HELP/DIRECT ACCESS]** button shows a "balloon" to help you to understand the currently selected function or find an appropriate operation.





How to read

This message means "Select a voice with the data dial, the [+/ YES] button, the [-/NO] button or the Number buttons [0]-[9]."

Operation Guide

This gives relevant information for the current operation and remains displayed until you execute the next operation.



How to read

This message means "Press the [+/YES] button to execute the SAVE operation."

Note that the example
 Operation Guide displays
 shown in this manual are in
 English.

Selecting the desired language of the Help messages

You can select the desired language of the Help messages from the following: English, Japanese, German, French, Spanish, and Italian.



Press the [DEMO/LANGUAGE] button.







Press the [NEXT] button.

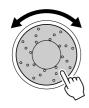


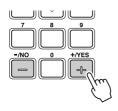




Select the desired Language.

Use the data dial, the [+/YES] button or the [-/NO] button.



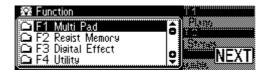




Menu Selection

For certain operations on the PSR-740/640 (such as selecting voices, demo songs and styles), you'll need to select different menus in the display.

For example, the display below (for selecting the function) appears when you press the **[FUNCTION]** button.



In this case you can select the desired function by turning the **data dial** or move the cursor by pressing the [+/YES]/[-/NO] buttons.

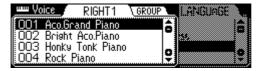
Rotating the data dial to the right (clockwise) moves the cursor downward, while rotating it to the left (counter-clockwise) moves the cursor upward.





Pressing the [+/YES] button moves the cursor downward, while pressing the [-/NO] button moves the cursor upward.

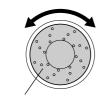
The display below (for selecting voices) appears when you press the **[VOICE R1]** button.



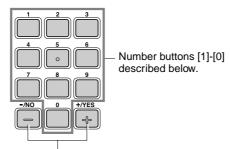
In this case you can also select the voice by using the **data dial** or the [+/YES]/[-/NO] buttons as above; you can also input the voice number directly by using the number buttons [1]-[0] (See the next page).

Changing (Editing) Values

This section shows you how to set numeric values on the PSR-740/640, such as voice number, song/style number and various parameters. Input the values by using the number buttons [1]-[0] or the [+/YES]/[-/NO] buttons.



Rotating the data dial to the right (clockwise) increases the value, while rotating it to the left (counter-clockwise) decreases it.



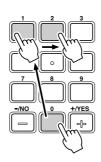
Pressing the [+/YES] button increases the displayed value by 1. Pressing the [-/NO] button decreases the displayed value by 1. Pressing and holding either button causes a continuous increase and decrease. For items that have initial default values, pressing the [+/YES] and the [-/NO] buttons together at the same time will return the setting to the initial value.

Numeric entry

The explanations here apply only to numbers that have a maximum of three digits, such as those for voices and styles.

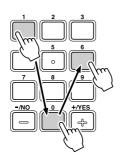
• Entering one- or two-digit numbers

One- or two-digit voice numbers can be entered with leading zeroes: e.g. "12" can be entered as "012" by pressing the [0], [1] and [2] buttons in sequence.



Entering three-digit numbers

The number buttons can be used to directly enter the number of the desired voice, thereby immediately selecting that voice without having to step through a number of other voices. To select voice number 106, for example, press the [1], [0] and [6] number buttons in sequence.



NOTE

- One- or two-digit numbers can also be entered without leading zeroes.
 To select number "12," for example, simply press the [1] button and then the [2] button. The bars below the number on the display will flash for a few seconds, and then disappear when the selected number has been recognized by the PSR-740/
- On some occasions, "- -" may appear in the parameter value part of the display. This indicates that the parameter is unavailable or cannot be changed (due to the current panel settings).

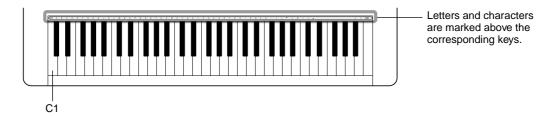
Naming

The allows you to create your own original data such as songs, styles and registration memory settings. You can also freely name the data as desired. The following data types can be named.

The example display below appears when naming a song on a floppy disk (page 69).



To enter an original name, use the keyboard.



Entering a character	Each key on the keyboard enters a different character, as marked directly above the key.
Moving the cursor	The A#5 and B5 keys move the cursor backward and forward within the file name.
Entering a lower-case character	The C1 key functions as a shift key that shifts between lower- and upper-case characters: hold the Shift key while pressing a character key to enter the lower-case character.
Delete	The Delete key (C6) deletes the character at the cursor position.



Direct Access

By using the **[HELP/DIRECT ACCESS]** button, you can instantly call up the desired display. For example, pressing the **[REGISTRATION MEMORY]** button while holding the **[HELP/DIRECT ACCESS]** button automatically selects the display for inputting the Registration Memory bank name.



See page 24 for the Direct Access Chart.

Function Tree

Button	Screen title	Function	See pa
EMO/LANGUAGE	DEMO	Demo song selection	15
		Language of the Help selection	18
VOICE R1	── VOICE RIGHT1	Voice R1 selection	26
		Voice group R1 selection	26
	— RETURN LEVEL	DSP type selection (PSR-740, only in the Style Record mode DSP return level setting (PSR-740, only in the Style Record r DSP depth setting (PSR-740, only in the Style Record mode)	node) . 50
VOICE R2		Voice R2 selection	
	└─ VOICE GROUP RIGHT2	Voice group R2 selection	27
VOICE L		Voice L selection	
	└─ VOICE GROUP L	Voice group L selection	28
STYLE	—— STYLE	Accompaniment Style selection	34
	STYLE GROUP	Accompaniment Style group selection	34
CONO	0010		70
SONG	SONG	Song selection	76
		Song play method selection	77
	— SONG START MEASURE	Song measure from which to start playback	79
		Song repeat setting	
	SUNG TRANSPUSE	Song transpose setting	81
OICE CHANGE		Voice selection of the R1/R2/L/Style/Song track	
	└─ VOICE GROUP	Voice group selection of the R1/R2/L/Style/Song track	89
MIXER	R1/R2/I	Volume adjustment of Voice R1/R2/L	3 90
	— STYLE	Volume adjustment of the accompaniment track	90
		Volume adjustment of the song track	
	└─ VOCAL HARMONY	Volume adjustment of the Vocal Harmony part (PSR-740)	90
RGAN FLUTES	FOOTAGE	Footage setting (PSR-740)	32
	— ATTACK MODE	Attack mode setting (PSR-740)	32
		Organ type setting (PSR-740)	
	— SPEED	Speed setting (PSR-740)	32
GROOVE	—— GROOVE TYPE	Groove type selection (PSR-740)	45
		Groove swing setting (PSR-740)	
		Dynamics type selection (PSR-740)	
	— DTNAMIOO DEI TTT	Dynamics deput setting (FOR 740)	40
IULTI EFFECT		Multi Effect connection setting (PSR-740)	
		Multi Effect block setting (PSR-740)	
		Multi Effect dry/wet setting (PSR-740)	
	_	, , ,	
CAL HARMONY		Vocal Harmony type selection (PSR-740) Gender type selection (PSR-740)	
		Lead Pitch Correction (PSR-740)	
		Pitch to note setting (PSR-740)	
	─ VOCAL HARMONY PART	Part setting (PSR-740)	85
	── VOCAL HARMONY SONG TRACK	Song track setting (PSR-740)	85
MP/SONG VOLUME	ACMP VOLUME	Accompaniment Volume setting	39
		Song Volume setting	
TRANSPOSE	TRANSPOSE	Transpose setting	30
	- -		
TEMPO/TAP	TEMPO	Tempo setting	38
FINGERING	—— FINGERING	Fingering selection	40
DISK LOAD	- -	Loading data from a disk	
	_		
DISK SAVE	DISK SAVE	Saving data to a disk	68
DISK UTILTY	── DISK UTILTY └── FORMAT	Formatting a disk	60
		Copying a song in a disk	
		Deleting a file in a disk	

Button	Screen title	Function	See	e pag
UNCTION	F1, MULTI PAD			
	■ HANK	Multi pad bank selection	9	. 49
	CHORD MATCH	Chord match on/off setting	變钞 10	. 48
	F2 REGISTRATION MEMORY			
	─ BANK	Registration Memory bank selection	💯 🗸 11	. 64
	└─ NAME	Namimg Registration Memory bank	💯 12	. 64
	─ F3 DIGITAL EFFECT			
	── REVERB			
		Reverb type selection		. 50
	☐ RETURN LEVEL	Reverb return level setting		. 51
	- CHORUS	_		
		Chorus type selction		. 52
	RETURN LEVEL	Chorus return level setting		. 52
	─ DSP	· ·		
		DSP type selection (PSR-640)	💯 13	. 53
		DSP return level setting (PSR-640)		
	HARMONY/ECHO	3 (
		Harmony/Echo type selection		. 56
		Harmony /Echo volume setting		
		Harmony part setting		
		Master EQ type selection/loading (PSR-740)		
		Master EQ gain setting (PSR-740)		
		waster EQ gain setting (PSR-740)	🤟 🗸 13	. 01
	F4 UTILITY	Matura and an /off patting	DRECTA A C	404
		Metronome on/off setting		
		Part octave setting		
		Master tuning setting		
		Scale tuning setting		
		Split point setting		
	TOUCH SENSITIVITY	Touch sensitivity setting	21	136
	─ VOICE SET	Voice set on/off setting		136
	FOOT SWITCH	Selecting footswitch function	💯 22	137
	FOOT VOLUME	Selecting foot volume function		138
	─ PITCH BEND RANGE	Pitch bend range setting	24	139
		Selecting modulation wheel function (PSR-740) .		
	F5 MIDI	,	•	
		MIDI template vselection		128
		MIDI transmit channel setting		
		MIDI receive channel setting		
		Local control on/off setting		
		External/Internal clock selection		
		Initial Setup data send		
	F6 PARAMETER EDIT	Illiliai Setup data serid		133
	1 1	Ostava asttina of vaisa D4/D0/I		04
		Octave setting of voice R1/R2/L		
		Octave setting of song track		
		Pan setting of voice R1/R2/L		
		Pan setting of accompaniment track		
		Pan setting of song track		
		Pan setting of vocal harmony part (PSR-740)		
		L Reverb depth setting of voice R1/R2/L		
		Reverb depth setting of accompaniment track		
		Reverb depth setting of song track		
	— REVERB DEPTH VOCAL HARMO	NY Reverb depth setting of vocal harmony part (PSR-740)	💯 26	. 91
	— CHORUS DEPTH R1/R2/	L Chorus depth setting of voice R1/R2/L		. 91
		Chorus depth setting of accompaniment track		
		Chorus depth setting of song track		
		DNY Chorus depth setting of vocal harmony part (PSF		
		DSP depth setting of voice R1/R2/L (PSR-640) .		
		DSP depth setting of accompaniment track (PSF		
		DSP depth setting of accompaniment track (PSR DSP depth setting of song track (PSR-640)		
		Dor deptil setting of song track (Pok-640)		. ฮา
	F7 TALK SETTING	Telle values and director and (DOD 740)	DRECTAL OF	00
	TOTAL VOLUME	Talk volume adjustment (PSR-740)		. 86
		ER Overall sound (not MIC.) volume adjustment (PS		
		Vocal harmony DSP type selection (PSR-740)		
		Vocal harmony type selection (PSR-740)		
	─ PARAMETER EDIT	Vocal harmony parameter editing (PSR-740)		. 86

Function Tree

Button	Screen title	Function	See page
RECORD	— SONG		•
REGORD		User Song Quick recording	94
		User Song Multi track recording	
		Punch in/out setting	
	☐ TART MEASURE.	Measure from which to start playback	98
	└─ EDIT		
	QUANTIZE	Quantize	100
		Setup data editing	
		Naming User Songs	
		Clearing user song data	105
	STYLE		
		User Style recording	112
	└─ EDIT	0	440
		Quantize	
	I I	Naming User Styles	
	I I	Clearing user style data	
		CTAB setting	
	1		
	I I	ORD	
	PAD SOURCE CIT	OND	119
	· · · i =	User Pad recording	106
	EDIT		
	:-	Chord match on/off setting	108
		Naming user pads	
		Clearing user pad data	
		· ·	



Direct Access Chart

	Function Tree number/function		Operation: + button listed below
1	Volume adjustment of Voice L		PART ON/OFF [VOICE L]
2	Volume adjustment of Voice R1		PART ON/OFF [VOICE R1]
3	Volume adjustment of Voice R2		PART ON/OFF [VOICE R2]
4	Multi Effect type selection (DSP1)	PSR-740	[DSP1]
5	Multi Effect type selection (DSP2)	PSR-740	[DSP2]
6	Multi Effect type selection (DSP3)	PSR-740	[DSP3]
7	Multi Effect type selection (DSP4 for the microphone sound)	PSR-740	VOCAL HARMONY [DSP4]
8	Vocal Harmony type selection	PSR-740	VOCAL HARMONY [ON/OFF]
9	Multi pad bank selection		MULTI PAD [STOP]
10	Chord match on/off setting		MULTI PAD [1]-[4]
11	Registration Memory bank selection		REGISTRATION MEMORY [1]-[4]
12	Namimg Registration Memory bank		REGISTRATION MEMORY [MEMORY]
13	DSP type selection	PSR-640	[DSP]
14	Harmony/Echo type selection		[HARMONY/ECHO]
15	Master EQ gain setting	PSR-740	[MASTER EQ]
16	Metronome on/off setting		[TEMPO/TAP]
17	Part octave setting of Voice L		[VOICE L]
18	Part octave setting of Voice R1		[VOICE R1]
19	Part octave setting of Voice R2		[VOICE R2]
20	Split point setting		[ACMP ON/OFF]
21	Touch sensitivity setting		[TOUCH]
22	Selecting footswitch function		Footswitch
23	Selecting foot volume function		Foot Volume
24	Pitch bend range setting		Pitch bend wheel
25	Selecting modulation wheel function	PSR-740	Modulation wheel
26	Reverb depth setting of vocal harmony part	PSR-740	VOCAL HARMONY [REVERB]
27	Talk volume adjustment	PSR-740	VOCAL HARMONY [TALK]

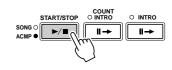
Mode

Depending on the panel operation used, the PSR-740/640 has several fundamentally different conditions (or methods of operation). Each of these conditions is called a mode. This section explains the main modes of the instrument.

Style Mode page 34



Select this mode by pressing the [STYLE] button. (This is the default mode when the power is turned on.)
The Style mode is used for playing the full keyboard normally, and when using the auto accompaniment.
Styles are the rhythm/accompaniment patterns which are played by the auto accompaniment feature.



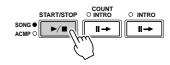




Song Mode page 76



Select this mode by pressing the **[SONG]** button or inserting the disk that contains song data into the disk drive. The Song mode is used for playing the full keyboard normally, and for playing back the songs.



Record Mode





Select this mode by pressing the [RECORD] button.

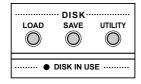
In the Record mode you can record your own original performances and songs, create original styles and Multi Pad phrases.

- Song record mode...... page 92
 - Rehearsal mode (Sync Start off)
 - Record (Synchronized Start) standby
 - Recording
- Style record mode page 110
 - Record (Synchronized Start on/off) standby
 - Recording

- Pad record mode page 106
 - Rehearsal mode (Sync Start off)
 - Record (Synchronized Start) standby
 - Recording

When Record (Synchronized Start) standby is on, the recording starts as soon as you play a key on the keyboard. If the **[SYNC START]** button is pressed, it will be canceled (the beat indicator dots will go out) and the PSR-740/640 will enter Rehearsal mode.

Disk Mode



Select this mode by pressing the **[LOAD]** button, **[SAVE]** button or the **[UTILITY]** button.

In the Disk mode you can save and load important data (page 65).

In the Disk mode, no panel operations can be executed (except for disk operations).

Playing Voices

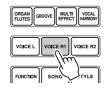
The PSR-740/640 has a huge selection of various musical instrument voices which you can play. Try out the different voices referring to the voice list at the end of this manual (page 140).

Select and play the voices of different musical instruments • Selecting a Voice	page 26
Keyboard Percussion	
Assign three different voices to the keyboard and play them	
Playing Two Voices (R1, R2) Simultaneously	page 27
 Playing Different Voices with the Left (L) and Right (R1, R2) Hands 	page 28
Functions of the Keyboard	page 29
Other voice-related functions	
Pitch Bend Wheel	page 30
Modulation Wheel (PSR-740)	
Transpose	
• Sustain	page 3′
Touch Sensitivity	

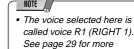
Selecting a Voice



Press the [VOICE R1] button.







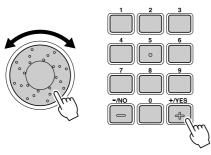
information on voice R1.



Select a voice.

Use the **data dial**, the [+/YES] button, the [-/NO] button or the number buttons [1]-[0].

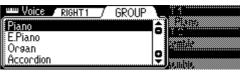
Refer to the Voice List (page 140).





The voices of the PSR-740/640 are divided into different groups or basic categories. You can select different voice groups in succession by pressing the [NEXT] button. Selecting a specific voice group makes it easier to select a desired voice, since it lets you narrow down your search to just the voices of a certain category.





Press the [BACK] button to return back to the VOICE RIGHT1 diaplay.

3

Play & adjust the volume.





Playing Two Voices (R1, R2) Simultaneously



Press the [PART ON/OFF VOICE R2] button.





Play the voices.

Two different voices are sounded simultaneously in a layer.



Voice R1 (RIGHT 1) is the first voice of the layer and is meant to be played with the right hand. The second voice is called voice R2 (RIGHT 2) and is also played with the right hand.

Selecting a voice for VOICE R2



Press the [VOICE R2] button.







Select a voice.

Use the **data dial**, the [+/YES] button, the [-/NO] button or the number buttons [1]-[0].

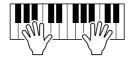
To indicate the voice group, press the **[NEXT]** button. To return to the previous display, press the **[BACK]** button.

Refer to the Voice List (page 140).

The voices available for selection here (VOICE R2) are the same as those available for VOICE R1 (selected on page 26).



Play the voice.



Playing Different Voices with the Left and Right Hands



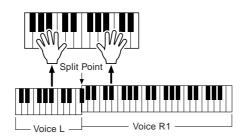
Press the [PART ON/OFF VOICE L] button.





Play the voices.

The notes you play with your right and left hands sound two different voices.



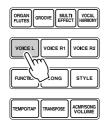
The point on the keyboard that separates voice L and voice R1 is called the "split point" (page 29).

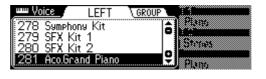
Voice R1 (RIGHT 1) is meant to be played with the right hand. Voice L (LEFT) is played with the left hand.

Selecting a voice for VOICE L



Press the [VOICE L] button.







Select a voice.

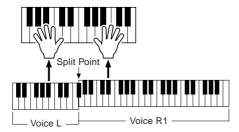
Use the **data dial**, the [+/YES] button, the [-/NO] button or the number buttons [1]-[0].

Refer to the Voice List (page 140).

The voices available for selection here (VOICE L) are the same as those available for VOICE R1 (selected on page 26).



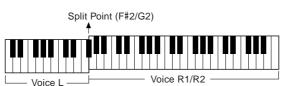
Play the voices.



Split Point

The point on the keyboard that separates voice L and voice R1/R2 is called the "split point".

The split point is set to F#2/G2 at the factory setting, however you can set this to any key you wish. Refer to page 135 for instructions on setting the split point.



NOTE

· Each key has a note name; for example, the lowest (farthest left) key on the keyboard corresponds to C1 and the highest (farthest right) key to C6 (See below for details).

Functions of the Keyboard

As explained above, the keyboard of the PSR-740/640 can sound three different voices. Here's a short summary of the various ways of playing voices.

Playing a Single Voice





Playing Two Voices





Playing Separate Voices with the Right and Left Hands





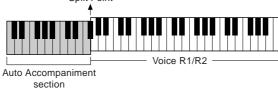


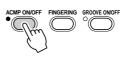


In addition, the keyboard of the PSR-740/640 has other important functions besides playing voices (as shown below).

Auto Accompaniment Section

When the auto accompaniment is set to on (page 35), the key range of voice L becomes the range for playing/ indicating chords. Split Point

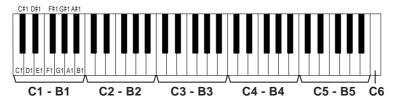




Naming

The keyboard can also be used to name song files on a floppy disk, User Styles, User Pad banks and Registration Memory banks (page 21).

Each key has a note name; for example, the lowest (farthest left) key on the keyboard corresponds to C1 and the highest (farthest right) key to C6.

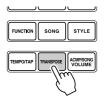


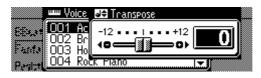
Transpose

This function allows the overall pitch of the PSR-740/640 to be transposed up or down by a maximum of one octave in semitone increments.



Press the [TRANSPOSE] button.

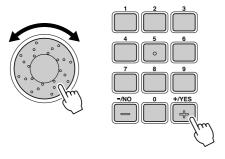


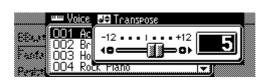




Set the transposition.

Use the **data dial**, the [+/YES] button, the [-/NO] button or the number buttons [1]-[0].



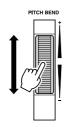


NOTE

- The Transpose function cannot be applied when a drum kit is the selected voice (page 31).
- Press the [+/YES] and [-/NO] buttons simultaneously to instantly reset the transpose value to "0."
- The new TRANSPOSE value will take effect from the next key played.
- Minus values can be entered by using the number buttons while holding the [-/NO] button.

Pitch Bend Wheel

Use the PSR-740/640 pitch bend wheel to bend notes up (roll the wheel away from you) or down (roll the wheel toward you) while playing the keyboard. The pitch bend wheel is self-centering and will automatically return to normal pitch when released.



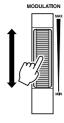


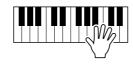
NOTE

 The maximum pitch bend range can be set via the Pitch Bend Range function in the Utility function group (page 139).

Modulation Wheel (PSR-740)

The Modulation function applies a vibrato effect to notes played on the key-board (R1, R2, L voices). Moving the MODULATION wheel all the way towards yourself minimizes the depth of the effect, while rotating it away from yourself increases it.



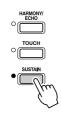


NOTE

- In order to avoid accidentally applying modulation when you don't intend to, set the depth at its minimum setting.
- You can also assign other functions to the MODULA-TION Wheel (page 139).

Sustain

When the Sustain features is ON, all notes played on the keyboard have a longer sustain. Press the [SUSTAIN] button to turn the SUSTAIN effect ON or OFF.





Keyboard Percussion



Press the [VOICE R1] button.

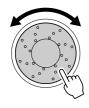


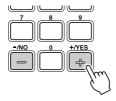
Press the [NEXT] button to display the "VOICE GROUP" selection screen.

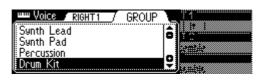


Select Voice group "Drum Kit."

Use the data dial, the [+/YES] button or the [-/NO] button.









Press the [BACK] button to return back to the VOICE selection screen.



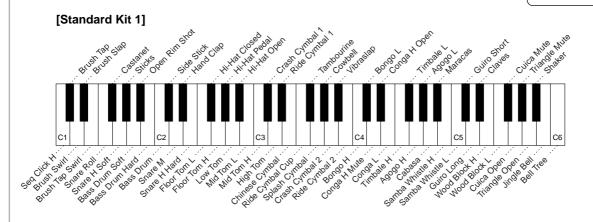
Play the voice.

Refer to the illustration below and the drum kit list at the end of the manual (page 148).

The drum and percussion instrument sounds for the standard kit (Std.Kit1) are indicated by symbols printed below the keys.



- The Transpose function cannot be applied when a drum kit is the selected voice (page 30).
- Each key has a note name; for example, the lowest (farthest left) key on the keyboard corresponds to C1 and the highest (farthest right) key to C6 (See page 29 for details).



Organ Flutes (PSR-740)

The Organ Flutes function lets you create your own original organ voices, just as on a traditional organ, by increasing and decreasing the flute footages, and adding percussive sounds.

Your original organ voice is stored to voice number 761 (Organ Flutes) for selecting and playing.

■ Parameters

Organ Type

This determines the type of organ sound or tone generation to be simulated: Sine or Vintage. The vibrato-enhanced variations provide different modulation effects.

Settings:

- SINE1
- SINE2
- SINE3
- SINE4
- VINTAGE1
- VINTAGE2
- VINTAGE3
- VINTAGE4

Vibrato Speed

This determines the speed of the vibrato effect (when one of the vibratoenhanced Organ Types is selected).

Attack Mode

This determines how the attack (or percussive) sound is applied to the organ flutes: First or Each. When this is set to FIRST, the attack sound will only be applied to the first note in a chord or a held group of notes. When this is set to EACH, the attack sound will be applied equally to all notes.

Attack Footage

This determines the level of each volume in the percussive portion of the voice. Footage settings are 4', 2-2/3', and 2'.

Length

This determines the decay of the attack sound, or how long the attack portion of the sound sustains. The higher the value, the longer the decay.

Response

This parameter affects the sustain portion of the organ flutes, increasing or decreasing the response time of the initial swell and release, based on the FOOTAGE parameter (below). The higher the value, the slower the swell and release.

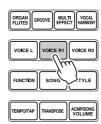
Footage

The footage settings determine the basic sound of the organ flutes. The term "footage" is a reference to the sound generation of traditional pipe organs, in which the sound is produced by pipes of different lengths (in feet). The longer the pipe, the lower the pitch of the sound. Hence, the 16' setting determines the lowest pitched component of the voice, while the 1' setting determines the highest pitched component. The higher the value of the setting, the greater the volume of the corresponding footage. Mixing various volumes of the footages lets you create your own distinctive organ sounds.

Organ Flutes Editing

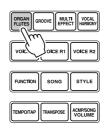
1

Press the [VOICE R1] button.





Press the [ORGAN FLUTES] button.



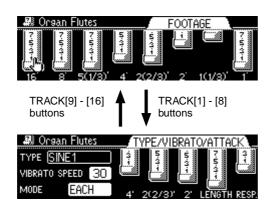


Adjust the parameters as described above.

1) Press one of the [TRACK1]-[TRACK16] buttons to select the desired parameter.

For details about each parameter, refer to page 32.

TRACK [1] Organ Type
TRACK [2] Vibrato Speed
TRACK [3] Attack Mode
TRACK [4]-[6] Attack Footage
TRACK [7] Attack Length
TRACK [8] Attack Response
TRACK [9]-[16] Footage



2) Adjust by using the **data dial**, the [+/YES] button, the [-/NO] button or the number buttons [1]-[0].



Play the edited voice.



Auto Accompaniment

The auto accompaniment feature puts a full backing band at your fingertips. To use it, all you have to do is play the chords with your left hand as you perform and the selected accompaniment style matching your music will automatically play along, instantly following the chords you play. With auto accompaniment, even a solo performer can enjoy playing with the backing of an entire band or orchestra.

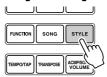
The PSR-740/640 features a total of 160 styles or accompaniment patterns (style numbers 1 - 160) in a variety of different musical genres. Try selecting some of the different styles (page 150) and play with the auto accompaniment.

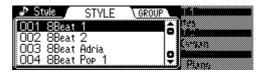
Two ways to playback the auto accompaniment • Using Auto Accompaniment (rhythm track only) • Using Auto Accompaniment (all tracks)	
Additional functions for getting the most out of the auto accomp	
Accompaniment Sections	page 36
• Tempo / Tap	
Accompaniment Track Muting	
Accompaniment Volume Control	page 39
Auto accompaniment functions related to your left hand chord p	olaying
Chord Fingerings	page 40
Accompaniment Split Point	
Synchro Stop	page 43
Automatic one-touch selection of a variety of specially program settings to match the auto accompaniment style	med panel
One Touch Setting	page 44

Using Auto Accompaniment (rhythm track only)



Press the [STYLE] button.



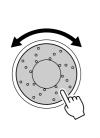


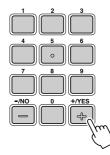


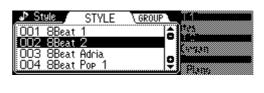
Select a style.

Use the **data dial**, the [+/YES] button, the [-/NO] button or the number buttons [1]-[0].

Refer to the Style List (page 150).

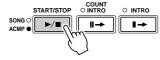








Press the [START/STOP] button to start the rhythm tracks of the auto accompaniment, minus the bass and chord tracks.





Press the [START/STOP] button again to stop the accompaniment.

Using Auto Accompaniment (all tracks)

1

Press the [STYLE] button (page 34).



Select a style (page 34).

Use the **data dial**, the [+/YES] button, the [-/NO] button or the number buttons [1]-[0].

Refer to the Style List (page 150).

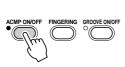


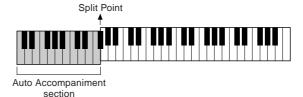
Turn AUTO ACCOMPANIMENT on.

Press the [ACMP ON/OFF] so that its indicator lights.

The specified left-hand section of the keyboard becomes the "Auto Accompaniment" section, and chords played in this section are automatically detected and used as a basis for fully automatic accompaniment with the selected style.









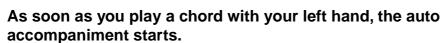
Turn SYNCHRONIZED START on.

Press the [SYNC START] button so that its indicator lights.

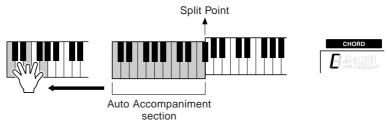
The beat lamp also flashes in time with the tempo. This condition is called synchronized start standby. Refer to page 25 for details.





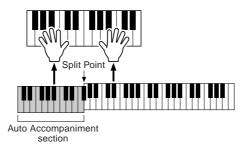


For this example, play a C major chord (as shown below).





For information on how to enter chords, see "Chord Fingerings" on page 40.

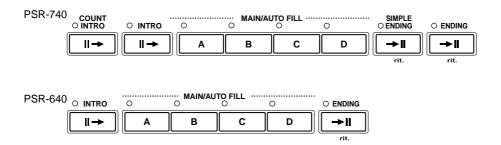




Press the [START/STOP] button again to stop the accompaniment.

Accompaniment Sections

There are various types of Auto Accompaniment sections that allow you to vary the arrangement of the accompaniment to match the song you are playing. They are: Intro, Main (A, B, C, D), Fill-in (A, B, C, D) and Ending. By switching among them as you play, you can easily produce the dynamic elements of a professional-sounding arrangement in your performance.



INTRO Section

This is used for the beginning of the song. When the intro finishes playing, accompaniment shifts to the main section.

The length of the intro (in measures) differs depending on the selected style. The PSR-740 also features two intros: INTRO and COUNT INTRO.

MAIN Section

This is used for playing the main part of the song. It plays an accompaniment pattern of several measures (2 - 4 measures), and repeats indefinitely until another section's button is pressed. There are 4 variations on the basic pattern, A - D and the auto accompaniment changes harmonically based on the chords you play with your left hand.

FILL-IN Section

The fill-in sections let you add dynamic variations and breaks in the rhythm of the accompaniment, to make your performance sound even more professional. Simply press one of the MAIN/AUTO FILL (A, B, C, D) buttons as you play, and the selected fill-in section plays automatically (AUTO FILL), spicing up the auto accompaniment. When the fill-in is finished, it leads smoothly into the selected main section (A, B, C, D). There are four variations for the fill-in sections, each specially programmed to match the selected main section.

ENDING Section

This is used for the ending of the song. When the ending is finished, the auto accompaniment stops automatically. The length of the ending (in measures) differs depending on the selected style. The PSR-740 also features two endings: ENDING and SIMPLE ENDING.



Press the [STYLE] button (page 34).



Select a style (page 34).

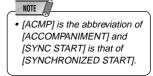
Use the **data dial**, the [+/YES] button, the [-/NO] button or the number buttons [1]-[0].



Turn AUTO ACCOMPANIMENT on (page 35).

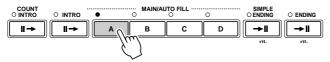


Turn SYNCHRONIZED START on (page 35).



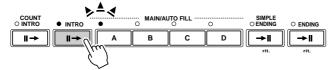


Press the [MAIN A] button.





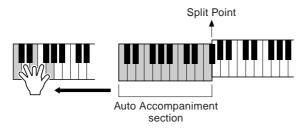
Press the [INTRO] button.





As soon as you play a chord with your left hand, the auto accompaniment starts.

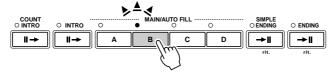
For this example, play a C major chord (as shown below). For information on how to enter chords, see "Chord Fingerings" on page 40.



When the playback of the intro is finished, it automatically leads into main A section.



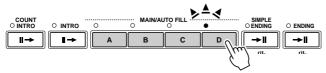
Press the [MAIN B] button.



A fill-in plays, automatically followed by the main B section.



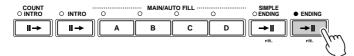
Press the MAIN buttons as desired during your performance.



The main section corresponding to the pressed button plays following an automatic fill-in.



Press the [ENDING] button.



This switches to the ending section. When the ending is finished, the auto accompaniment automatically stops.

You can have the ending gradually slow down (ritardando) by pressing the **[ENDING]** button again while the ending is playing back.

NOTE

- The indicator of the destination section (MAIN A/ B/C/D) will flash while the corresponding fill-in is playing. During this time you can change the destination section by pressing the appropriate MAIN/AUTO FILL [A], [B], [C] or [D] button.
- You can use the intro section even in the middle of the song by pressing the [INTRO] button during the song.
- If the MAIN/AUTO FILL A/B / C/D button is pressed after the final half beat (eighth note) of the measure, fill-in will begin from the next measure.

NOTE

- If you press the INTRO/ COUNT INTRO button while the ending is playing, the intro section will begin playing after the ending is finished.
- If you press a MAIN/AUTO FILL button while the ending is playing, fill-in accompaniment will immediately start playing, continuing with the main section.
- If you press the [SYNC START] button while an accompaniment is playing, the accompaniment will stop and the PSR-740/640 will enter Synchronized Start standby status.
- You can begin the accompaniment by using the ending instead of the intro section.

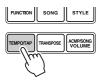
Tempo/Tap

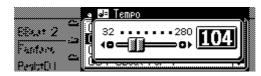
Each style of the PSR-740/640 has been programmed with a default or standard tempo; however, this can be changed by using the **[TEMPO/TAP]** button.

The following steps can be used even during playback.



Press the [TEMPO/TAP] button.







Change the tempo.

Use the **data dial**, the [+/YES] button, the [-/NO] button or the number buttons [1]-[0].



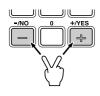


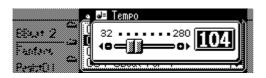
NOTE

 When you select a different style while the accompaniment is not playing, the "default" tempo for that style is also selected. If the accompaniment is playing, the same tempo is maintained even if you select a different style.



To restore the default tempo setting, press the [+/YES]/ [-/NO] buttons simultaneously.







Using the Tap function

The auto accompaniment can be started at any tempo you desire by "tapping" out the tempo with the **[TEMPO/TAP]** button.



Press the [STYLE] button (page 34).

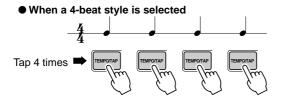


Select a style (page 34).

Use the **data dial**, the [+/YES] button, the [-/NO] button or the number buttons [1]-[0].



Press the [TEMPO/TAP] button four times successively (in a consistent rhythm).



* When a 3-beat style is selected, tap 3 times.

The auto accompaniment starts automatically at the tempo you tapped the button.



 The Tempo can also be changed during playback by tapping the TEMPO/TAP button twice at the desired tempo.

Accompaniment Track Muting

The PSR-740/640 has eight accompaniment tracks — RHYTHM SUB, RHYTHM MAIN, BASS, CHORD 1, CHORD 2, PAD, PHRASE 1, and PHRASE 2 — that you can control to modify the "orchestration" and therefore the overall sound of the accompaniment. When a style is selected, the icons corresponding to the tracks which contain data for any section of that style will light.

Individual accompaniment tracks can be turned OFF (muted) or ON by pressing the TRACK buttons (9 - 16) corresponding to the target tracks. The [M] icon will appear when a track is muted. By turning the tracks OFF and ON in different combinations, you can create various arrangements from a single accompaniment style.

Track contents

• RHYTHM SUB, RHYTHM MAIN

These are the main rhythm tracks. The RHYTHM tracks produce the drum and percussion sounds.

BASS

The BASS track always plays a bass line, but the voice will change to fit the selected style — acoustic bass, synth bass, tuba, etc.

• CHORD 1, CHORD 2

These tracks provide the rhythmic chordal accompaniment required by each style. You'll find guitar, piano, and other chordal instruments here.



This track plays long chords where necessary, using sustained instruments such as strings, organ, choir.

• PHRASE 1, PHRASE 2

This is where the musical embellishments reside.

The PHRASE tracks are used for punchy brass stabs, arpeggiated chords, and other extras that make the accompaniment more interesting.

Accompaniment Volume Control

This separate volume control for the auto accompaniment lets you set the optimum level balance between the accompaniment and your right hand performance.



Start the accompaniment (page 35).



Press the [ACMP/SONG VOLUME] button.

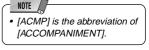




Adjust the Accompaniment Volume.

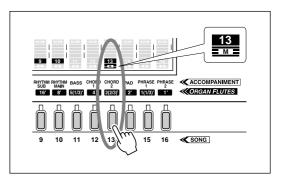
Use the **data dial**, the [+/YES] button, the [-/NO] button or the number buttons [1]-[0].

Adjust the level as you play the keyboard with your right hand, listening to the overall balance between the accompaniment and the keyboard-played voice.





Stop the accompaniment (page 35).



Chord Fingerings

The way in which chords are played or indicated with your left hand (in the auto accompaniment section of the keyboard) is referred to as "fingering." There are 5 types of fingerings as described below.

- Multi Finger
- Fingered 1
- Full Keyboard

- NOTE
- The default Fingering Mode is "Multi Finger."

- Single Finger
 - Fingered 2



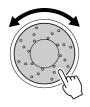
Press the [FINGERING] button.

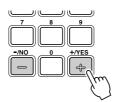




Select the desired fingering mode.

Use the **data dial**, the [+/YES] button or the [-/NO] button.







The SINGLE FINGER mode

Single-finger accompaniment makes it simple to produce beautifully orchestrated accompaniment using major, seventh, minor and minor-seventh chords by pressing a minimum number of keys on the AUTO ACCOMPANI-MENT section of the keyboard. The following abbreviated chord fingerings are used:



- For a major chord, press the root key only.
- For a seventh chord, simultaneously press the root key and a white key to its left.



• For a minor chord, simultaneously press the root key and a black key to its left.



· For a minor-seventh chord, simultaneously press the root key and both a white and black key to its left.

The FINGERED 1 mode

The Fingered 1 mode lets you finger your own chords on the AUTO ACCOMPANIMENT section of the keyboard (i.e. all keys to the left of and including the split-point key — normally 54) while the PSR-740/640 supplies appropriately orchestrated rhythm, bass and chord accompaniment in the selected style. The FINGERED 1 mode recognizes the following chords:

● Example for "C" chords

С	C (a)	C ₆	C ₆ (9)	CM ₇	CM ₇ (9)	CM ₇ (#11)	C(♭5)	CM ₇ ♭5
		• • •	• • • • •	• • •				
Csus ₄	Caug	CM ₇ aug	Cm	Cm ⁽⁹⁾	Cm ₆	Cm ₇	Cm ₇ (9)	Cm ₇ (11)
		• 9				• •		
CmM ₇	CmM ₇ (9)	Cm ₇ ♭5	CmM ₇ ♭5	Cdim	Cdim ₇	C ₇	C ₇ (♭9)	C ₇ (♭13)
CmM ₇	CmM ₇ (9)	Cm ₇ ♭5	CmM ₇ ♭5	Cdim	Cdim ₇	C ₇	C ₇ (♭9)	C ₇ (\(\right)13)

Chord Name/[Abbreviation]	Normal Voicing	Chord (C)	Display
Major [M]	1 - 3 - 5	С	С
Add ninth [(9)]	1 - 2 - 3 - 5	C(9)	C(9)
Sixth [6]	1 - (3) - 5 - 6	C6	C6
Sixth ninth [6(9)]	1 - 2 - 3 - (5) - 6	C6(9)	C6(9)
Major seventh [M7]	1 - 3 - (5) - 7 or 1 - (3) - 5 - 7	CM7	CM7
Major seventh ninth [M7(9)]	1 - 2 - 3 - (5) - 7	CM7(9)	CM7(9)
Major seventh add sharp eleventh [M7(#11)]	1 - (2) - 3 - #4 - 5 - 7 or 1 - 2 - 3 - #4 - (5) - 7	CM7(#11)	CM7(#11)
Flatted fifth [(\bstack5)]	1 - 3 - ♭5	C(♭5)	C(♭5)
Major seventh flatted fifth [M7♭5]	1 - 3 - 15 - 7	CM7♭5	CM7♭5
Suspended fourth [sus4]	1 - 4 - 5	Csus4	Csus4
Augmented [aug]	1 - 3 - #5	Caug	Caug
Major seventh augmented [M7aug]	1 - (3) - #5 - 7	CM7aug	CM7aug
Minor [m]	1 - 1-3 - 5	Cm	Cm
Minor add ninth [m(9)]	1 - 2 - 13 - 5	Cm(9)	Cm(9)
Minor sixth [m6]	1 - 1-3 - 5 - 6	Cm6	Cm6
Minor seventh [m7]	1 - 1-3 - (5) - 1-7	Cm7	Cm7
Minor seventh ninth [m7(9)]	1 - 2 - 1/3 - (5) - 1/7	Cm7(9)	Cm7(9)
Minor seventh add eleventh [m7(11)]	1 - (2) - 13 - 4 - 5 - (17)	Cm7(11)	Cm7(11)
Minor major seventh [mM7]	1 - 1-3 - (5) - 7	CmM7	CmM7
Minor major seventh ninth [mM7(9)]	1 - 2 - 13 - (5) - 7	CmM7(9)	CmM7(9)
Minor seventh flatted fifth [m7♭5]	1 - 1 - 5 - 7	Cm7♭5	Cm7♭5
Minor major seventh flatted fifth [mM7♭5]	1 - 1 - 5 - 7	CmM7♭5	CmM7♭5
Diminished [dim]	1 - 1-3 - 1-5	Cdim	Cdim
Diminished seventh [dim7]	1 - 1-3 - 15 - 6	Cdim7	Cdim7
Seventh [7]	1 - 3 - (5) - ♭7 or 1 - (3) - 5 - ♭7	C7	C7
Seventh flatted ninth [7(\beta9)]	1 - 1 - 2 - 3 - (5) - 7	C7(♭9)	C7(♭9)
Seventh add flatted thirteenth [7(b13)]	1 - 3 - 5 - 16 - 17	C7(♭13)	C7(♭13)
Seventh ninth [7(9)]	1 - 2 - 3 - (5) - ♭7	C7(9)	C7(9)
Seventh add sharp eleventh [7(#11)]	1 - (2) - 3 - #4 - 5 - ♭7 or 1 - 2 - 3 - #4 - (5) - ♭7	C7(#11)	C7(#11)
Seventh add thirteenth [7(13)]	1 - 3 - (5) - 6 - 1-7	C7(13)	C7(13)
Seventh sharp ninth [7(#9)]	1 - #2 - 3 - (5) - ♭7	C7(#9)	C7(#9)
Seventh flatted fifth [7♭5]	1 - 3 - ♭5 - ♭7	C7♭5	C7♭5
Seventh augmented [7aug]	1 - 3 - #5 - ♭7	C7aug	C7aug
Seventh suspended fourth [7sus4]	1 - 4 - (5) - 1-7	C7sus4	C7sus4
One plus two plus five [1+2+5]	1 - 2 - 5	C1+2+5	С

NOTE

- Notes in parentheses can be omitted.
- If you play any three adjacent keys (including black keys), the chord sound will be cancelled and only the rhythm instruments will continue playing (CHORD CANCEL function).
- Playing a single key or two same root keys in the adjacent octaves produces accompaniment based only on the root.
- A perfect fifth (1 + 5) produces accompaniment based only on the root and fifth which can be used with both major and minor chords.
- The chord fingerings listed are all in "root" position, but other inversions can be used — with the following exceptions:
 - m7, m7\(5, 6, m6, sus4, aug, dim7, 7\(5, 6(9), m7(11), 1+2+5. \)
- Inversion of the 7sus4 chord are not recognized if the 5th is omitted.
- The AUTO ACCOMPANI-MENT will sometimes not change when related chords are played in sequence (e.g. some minor chords followed by the minor seventh).
- Two-note fingerings will produce a chord based on the previously played chord.

Auto Accompaniment

The FINGERED 2 mode

This is essentially the same as the FINGERED 1 mode, described above, except that the FINGERED 2 mode additionally allows you to specify the lowest note of each chord — simply, the lowest note played in the AUTO ACCOMPANIMENT section of the keyboard is used as the accompaniment bass note. This means you can specify "onbass" chords in which the main bass note for the chord is not the root of the chord. For a C major chord, for example, you could use E (the third) or G (the fifth) as the bass note rather than C.







The FULL KEYBOARD mode

When the FULL KEYBOARD Mode is selected, the PSR-740/640 will automatically create appropriate accompaniment while you play just about anything using both hands, anywhere on the keyboard. You do not have to worry about specifying the accompaniment chords. The name of the detected chord will appear in the display.



 When the FULL KEYBOARD mode is selected, the split point setting (see below) for the auto accompaniment will be ignored.

The MULTI-FINGER mode

This is the default accompaniment mode. The MULTI-FINGER mode automatically detects SINGLE FINGER or FINGERED 1 chord fingerings, so you can use either type of fingering without having to switch fingering modes.



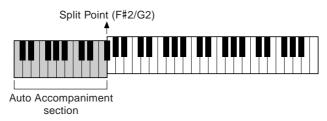
If you want to play minor, seventh or minor seventh chords using the SINGLE FINGER operation in the MULTI-FINGER Mode, always press the closest white/black key(s) to the root of the chord.

Accompaniment Split Point

This function lets you change the key range for playing accompaniment chords (the auto accompaniment section).

The point on the keyboard that separates the auto accompaniment section and the right-hand section of the keyboard is called the "split point."

The initial (default) setting of the split point is F#2/G2; however, this can be set to any key you wish. Refer to page 135 for instructions on how to set the split point.



Synchro Stop

When the Synchro Stop function is engaged, accompaniment playback will stop completely when all keys in the auto-accompaniment section of the keyboard are released. Accompaniment playback will start again as soon as a chord is played. The BEAT indicators in the display will flash while the accompaniment is stopped.



Press the [STYLE] button (page 34).



Turn AUTO ACCOMPANIMENT on (page 35).



Turn SYNCHRONIZED START on (page 35).



Turn SYNCHRONIZED STOP on.

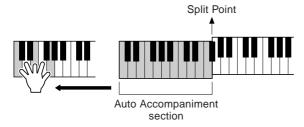
Press the [SYNC STOP] button.





As soon as you play a chord with your left hand, the auto accompaniment starts.

For this example, play a C major chord (as shown below).





The auto accompaniment stops when you release your left hand from the keys.





Playing a chord with your left hand automatically restarts the auto accompaniment.

To stop the auto accompaniment, simply release your left hand from the keyboard.



Turn SYNCHRONIZED STOP off.

Press the [SYNC STOP] button.



When Synchronized Stop is off, the auto accompaniment does not stop when you release your left hand from the keys.



Stop the accompaniment (page 34).

NOTE

- Synchro Stop cannot be set to on when the fingering mode is set to Full Keyboard or the auto accompaniment on the panel is set to off. Also, Synchro Stop automatically turns off when the Full Keyboard is selected for the fingering mode or when the auto accompaniment on the panel is turned off.
- [SYNC STOP] is the abbreviation of [SYNCHRO STOP].

One Touch Setting

One Touch Setting is a powerful and convenient function that lets you instantly reconfigure virtually all auto-accompaniment-related panel settings with the touch of a single button.



Press the round One Touch Setting button to call up the One Touch Setting function.





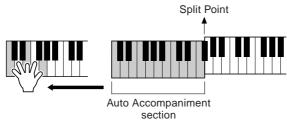
Press one of the [ONE TOUCH SETTING] buttons [1]-[4].

Steps #3 - #4 of "Using Auto Accompaniment (all tracks)" can be set with just a single press of a **[ONE TOUCH SETTING]** button. In addition, various panel settings (such as voices, effects, etc.) that match the selected style can be instantly recalled with just a single button press (see below).



As soon as you play a chord with your left hand, the auto accompaniment starts.

For this example, play a C major chord (as shown below).





Stop the accompaniment.

NOTE

- You can also try changing the established One Touch Setting data, making your own original settings. To be able to recall your original settings anytime, save them using the Registration Memory function (page 62).
- When a User style (number 161-163) is selected, the One Touch Setting cannot be used.

One Touch Setting parameter list

The PSR-740/640 features four different One Touch Settings for each of the 160 auto accompaniment styles built into the instrument. Each has been specially programmed to match the selected style; each has the best suited voice (or combination of voices), digital effects, and other settings for that style. Simply pressing one of the [ONE TOUCH SETTING] buttons lets you instantly reconfigure all relevant settings, conveniently allowing you to start playing in a desired style with all the appropriate sounds — without having to make each setting one by one.

Part on/off (VOICE R1, R2) Voice Change setting (VOICE R1, R2) Mixer setting (VOICE R1, R2) Parameter Edit setting (VOICE R1, R2) Auto accompaniment = ON Accompaniment track = ON Synchro Start = ON* HARMONY/ECHO on/off, type, volume, part DSP on/off, type, return level and FAST/SLOW	. page 89 . page 90 . page 91 . page 35 . page 39 . page 35 . page 56 . page 50
DSP on/off, type, return level and FAST/SLOW Multi Pad bank number Part Octave (VOICE R1, R2)	. page 49

^{*} Set only when the accompaniment is not playing.

Groove (PSR-740)

The Groove and Dynamics function on the PSR-740 lets you temporarily change the "feel" of the accompaniment. Specifically, it allows you to alter the timing, velocity and gate time of notes during playback of any of the accompaniment styles.

Groove

This lets you play the music with some swing or change the "feel" of the beat by making subtle shifts in the timing (clock) of the accompaniment style.

· Groove Type

This determines the type of groove timing change. For example, the "16 to 8" setting converts all 16th notes to 8th-note timing.

Groove Swing

This determines how much "swing" feel is applied to the accompaniment.

Dynamics

This changes the velocity (or accent) of certain notes in the accompaniment style to complement or enhance changes made to the Groove settings above.

• Dynamics Type

This determines the type of dynamic change applied to the accompaniment. (Each type is a different "template" to which the timing of the velocity changes has been programmed.)

· Dynamics Depth

This determines how strongly the selected dynamics type is applied to the accompaniment (expressed as a percentage). Higher values produce a stronger effect.

Every time the [GROOVE] button is pressed, the values for the above Groove and Dynamics parameters are automatically set to best suit the selected style.

Applying Groove & Dynamics



Select a style and start the accompaniment (page 35).



Press the [GROOVE ON/OFF] button.

The Groove & Dynamics effect will be applied to the accompaniment.





To cancel the groove effect, press the [GROOVE ON/OFF] button again.



Stop the accompaniment (page 35).

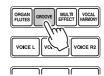


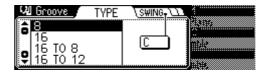
Editing the Groove and Dynamics Effect

When you select a style and turn the **[GROOVE ON/OFF]** button on, the most suitable Groove and Dynamics settings for that style are automatically called up. In this way, simply turning the Groove function on lets you produce a variety of rhythm "feels"; however, you can also edit detailed parameters and change the Groove and Dynamic effect to your liking.



Press the [GROOVE] button.







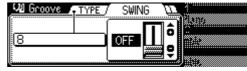
Select a Groove Type.

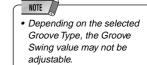
Use the **data dial**, the [+/YES] button or the [-/NO] button. Refer to the Groove Type List (page 47).

3

Press the [NEXT] button to display the Groove SWING screen.









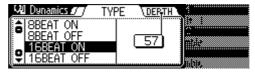
Select a Groove Swing.

Use the data dial, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button to display the Dynamics TYPE screen.







Select a Dynamics Type.

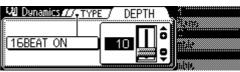
Use the **data dial**, the [+/YES] button, the [-/NO] button or the number buttons [1]-[0].

Refer to the Dynamics Type List (page 47).



Press the [NEXT] button to display the Dynamics DEPTH screen.







Select a Dynamics Depth.

■ Groove Type List

8
16
16 TO 8
16 TO 12
12 TO 8
12 TO 16A
12 TO 16B
24 TO 8
24 TO 16
24 TO 12
THRU

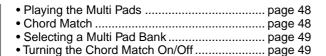
■ Dynamics Type List

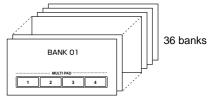
8BEAT ON
8BEAT OFF
16BEAT ON
16BEAT OFF
2nd BEAT OFF
DANCE
DISCO
TECHNO
FUSION
REGGAE1
REGGAE2
BOSSA NOVA
TANGO
RHUMBA BASS
RHUMBA CHORD
LATIN
SAMBA
THRU

The Multi Pads

The PSR-740/640 Multi Pads can be used to play a number of short pre-recorded rhythmic and melodic sequences that can be used to add impact and variety to your keyboard performances. You can also record your own Multi Pad phrases as described in "Multi Pad Recording" on page 106.

Some pad phrases simply play back as programmed, while others are "chord match" types which, if the Chord Match function is turned on, are automatically transposed to match chords played using the PSR-740/640 auto accompaniment feature.

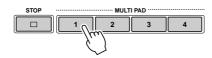




Playing the Multi Pads



Press any of the Multi Pads.



The corresponding phrase (in this case, for Pad 1) starts playing back in its entirety as soon as the pad is pressed. To stop playback in the middle of the phrase, press the **[STOP]** button.



- Simply tap any of the MULTI PADs at any time to play back the corresponding phrase at the currently set tempo.
- You can even play two, three, or four MULTI PADs at the same time.
- Pressing the pad during its playback will stop playing and begin playing from the top again.

Chord Match



Press the [STYLE] button (page 34).

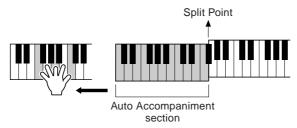


Turn AUTO ACCOMPANIMENT on (page 35).



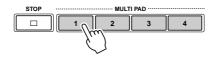
Play a chord with your left hand.

For this example, play an F major chord (as shown below).





Press any of the Multi Pads.



In this example, the phrase for Pad 1 will be transposed into F major before playing back. Try playing other chords and pressing the pads.



 The chord match on/off status depends on the selected Multi Pad. Refer to the Multi Pad Bank list (page 151).

Selecting a Multi Pad Bank

1

Press the [FUNCTION] button.

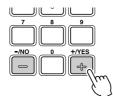


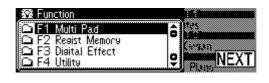


Select "Multi Pad."

Use the data dial, the [+/YES] button or the [-/NO] button.







3

Press the [NEXT] button to display the Multi Pad BANK screen.







Select a Bank.

Use the **data dial**, the [+/YES] button, the [-/NO] button or the number buttons [1]-[0].

Turning Chord Match On/Off

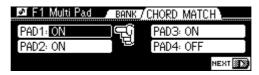


Use the same operation as in "Selecting a Multi Pad Bank" above.



Press the [NEXT] button again.



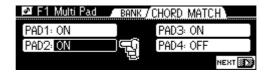




Select the desired PAD.

Use the [NEXT]/[BACK] button.







- The chord match function has no effect with pads that contain percussion phrases.
- The chord match on/off setting is restored to its original status whenever a preset Multi Pad Bank is selected.
- When the chord match on/off status of a user Multi Pad Bank (see above) is changed, the new status is recorded with the Multi Pad data.



Turn the CHORD MATCH function on or off.

Use the **data dial**, the [+/YES] button or the [-/NO] button.

Digital Effects

With the digital effects built into the PSR-740/640 you can add ambiance and depth to your music in a variety of ways—such as adding reverb that makes you sound like you are playing in a concert hall or adding harmony notes for a full, rich sound.

With the PSR-740, you can take advantage of even more sophisticated features like the Multi Effect function that lets apply several effects together or the Digital Equalizer that lets you adjust volume for each of five frequency bands.

● Reverb page 50
You can create a reverb effect that makes you sound like you are playing in places like a concert hall, or live in a club.

Reverb is always set to on for the PSR-740/640. A total of 24 different reverb types are available.

Choruspage 5
 You can add a chorus effect that makes your playing sound as though multiple parts were being played together at the same time.

Chorus is always set to on for the PSR-740/640. A total of 20 different chorus types (16 types for PSR-640) are available.

DSP

In addition to the Reverb and Chorus types, the PSR-740/640 has special DSP effects, that include additional effects usually used for a specific part, such as distortion and tremolo.

PSR-740: The PSR-740 features five DSP systems as follows:

DSF

This system is always set to on. A total of 102 different DSP types are available; however, these can only be selected in the Style Record mode.

• DSP 1 - 3 (Multi Effect)

The PSR-740 features three DSP systems, each of which can be turned on or off by a panel button (page 54). A total of 74 different DSP types are available.

• DSP 4

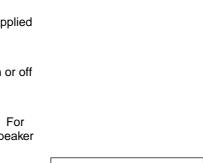
This system which can be turned on or off by a panel button (page 83) is applied to the microphone sound (page 82).

A total of 74 different DSP types are available.

PSR-640: The PSR-640 features one DSP system, which can be turned on or off by a panel button (page 53).

A total of 74 different DSP types are available.

The [FAST/SLOW] button can switch between variations of the DSP effect. For example, this lets you change the rotating speed (fast/slow) of the rotary speaker effect.



NOTE /

152.

FAST/SLOW

FAST/SLOW

FAST/SLOW

(PSR-740)

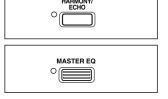
· For details about using

Digital Effects (Reverb, Chorus, DSP, Multi-Effect,

Digital Equalizer) see page

FAST/SLOW

(PSR-640)

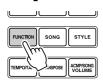


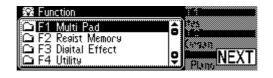
Reverb

Selecting a reverb type



Press the [FUNCTION] button.

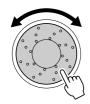


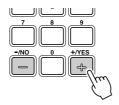


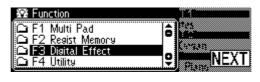


Select "Digital Effect."

Use the **data dial**, the [+/YES] button or the [-/NO] button.







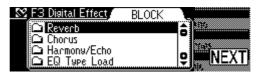


Press the [NEXT] button to display the Digital Effect screen.



Select "Reverb."

Use the **data dial**, the [+/YES] button or the [-/NO] button.





Press the [NEXT] button.







Select a reverb type.

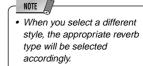
Use the **data dial**, the [+/YES] button or the [-/NO] button. Refer to the Reverb Type List (page 154).



Play the keyboard.

Try out some of the other reverb types as well.





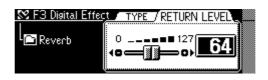
Adjust the depth of the reverb.

The two parameters below affect the depth of the reverb.



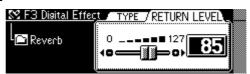
Press the [NEXT] button.







Adjust the reverb return level.



Chorus

Selecting a Chorus Type

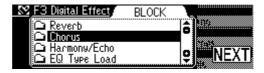


Use the same operation as in "Reverb" (page 50).



Select "Chorus."

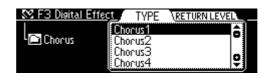
Use the **data dial**, the [+/YES] button or the [-/NO] button.





Press the [NEXT] button.







Select a chorus type.

Use the **data dial**, the [+/YES] button or the [-/NO] button. Refer to the Chorus Type List (page 154).



Play the keyboard.

Try out some of the other chorus types as well.



 When you select a different style, the appropriate chorus type will be selected accordingly.

Adjust the depth of the chorus.

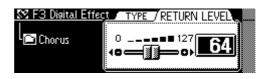
The two parameters below affect the depth of the chorus effect.

- Chorus Depth (send level) page 91
 Sets the chorus depth for the specified voice or track, and thus the amount of chorus effect applied to that voice or track.



Press the [NEXT] button.







Adjust the chorus return level.

DSP (PSR-640)

Applying the DSP effect



Press the [DSP] button.

The effect will be applied when you play the R1, R2 and L voices from the keyboard.

In addition, when the [FAST/SLOW] button is pressed, the indicator lights up indicating that the variation of the DSP effect is selected. When the DSP effect type is Rotary Speaker or Tremolo, the speed of the modulation becomes fast.



 When the Voice Set function is ON (page 136), the DSP effect and FAST/SLOW settings may change according to the selected R1 panel voice.

Selecting a DSP Type



Y Use the same operation as in "Reverb" (page 50).



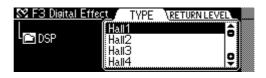
Select "DSP."

Use the data dial, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button.







Select a DSP type.

Use the **data dial**, the [+/**YES**] button or the [-/**NO**] button. Refer to the DSP Type List (page 154).



Play the keyboard.

Try out some of the other DSP types as well.



 When the selected DSP type is an Insertion Effect (pages 54, 152), the DSP effect applies only to the Voice R1.

Adjust the depth of the DSP.

The two parameters below affect the depth of the DSP effect.

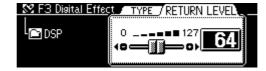


 If DSP Insertion Effect is selected (page 54), you won't be able to set the DSP Return Level.



Press the [NEXT] button.







Adjust the DSP return level.

System Effects and Insertion Effects

The reverb, chorus and DSP effects are divided into two different types or methods or operation.

There are two types of digital effects: system effects and insertion effects.

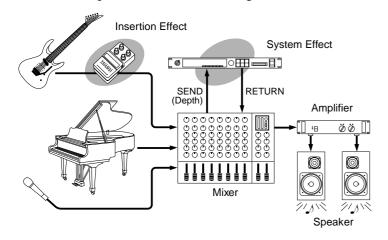
System Effects

Applies the effect to all of the parts input to the mixer. You can set the amount of effect applied with the depth and return level parameters. Reverb and chorus are both system effects.

Insertion Effects

Applies the effect to only one designated part before inputting the signal to the mixer. You can effectively use the digital effects by applying the desired effect to the specific part. With the insertion effects, only the DSP depth can be set.

The illustration below with the various audio components (instruments, effect devices, and a mixer) represents the inner workings of the DSP effects of the PSR-740/640.



Reverb

All types function as system effects.

Chorus

All types function as system effects.

- DSP (PSR-640)
 - Depending on the selected type, this functions either as a system effect or an insertion effect.
- DSP1-3 (PSR-740)

All types function as insertion effects

Refer to "About Digital Effects" (page 152) and the Type List.

Multi Effects (DSP1-3) (PSR-740)

The PSR-740 has a multi effect system featuring three separate DSP effect blocks. These three blocks can be connected in any one of six different ways, providing an exceptionally flexible and powerful system for enhancing the sound of the voices.

Applying the DSP effect



Press any of the [DSP1] - [DSP3] buttons.



Depending on the effect setting (below), the selected DSP multi effect is applied to one of the keyboard-played voices (R1, R2, L).

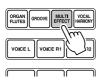
NOTE

- When the Voice Set function is ON (page 136), the Multi Effect (DSP1-3, FAST/ SLOW) on/off status will be set automatically according to the selected R1 panel voice.
- Some of the song files may contain Multi Effect settings. When you play back such songs, DSP and FAST/ SLOW buttons on the panel will automatically be turned off.

Multi Effect Setting



Press the [MULTI EFFECT] button.







Specify the multi effect connection.

Use the **data dial**, the [+/YES] button or the [-/NO] button. There are six types as shown below.

RIGHT1	RIGHT2	LEFT
DSP1→DSP2→DSP3		
DSP1→DSP2	DSP3	
DSP1→DSP2		DSP3
DSP1	DSP2	DSP3
DSP1	DSP2→DSP3	
DSP1		DSP2→DSP3



 When the Voice Set function is ON (page 136), the multi effect connection settings may automatically change according to the selected R1 panel voice.



Press the [NEXT] button.







Select the desired multi effect system.

Use the **data dial**, the [+/YES] button or the [-/NO] button. DSP4 is the effect for the microphone sound (page 83).





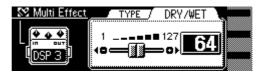


Select the effect type for DSP1 - 3.

Use the **data dial**, the [+/YES] button or the [-/NO] button. Refer to the Multi Effect Type List (page 156).



Press the [NEXT] button.





 The DSP 1/2/3 type settings may automatically change when a panel voice is selected for R1.



Set the effect depth for DSP1 - 3.

Use the **data dial**, the [+/YES] button, the [-/NO] button or the number buttons [1]-[0].

The Dry/Wet setting determines the amount of effect sound that is heard in comparison to the unprocessed sound. The word "dry" refers to the original sound that has no effects applied to it, while "wet" refers to the effect-processed sound.

- Dry/Wet [1] Only dry sound is output.
- Dry/Wet [64] Equal balance between the dry and wet levels.
- Dry/Wet [127] Only wet sound is output.



Play the keyboard.

Try some of the other connection settings and types as well.



NOTE

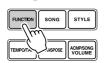
- The dry/wet settings cannot be done for some of the DSP 1/2/3 types.
- The Dry/Wet settings for DSP 1/2/3 may automatically change when a panel voice is selected for R1.

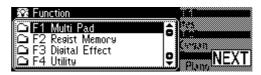
Harmony/Echo

Selecting a Harmony/Echo type



Press the [FUNCTION] button.







Select "Digital Effect."

Use the data dial, the [+/YES] button or the [-/NO] button.

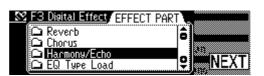
3

Press the [NEXT] button to display the Digital Effect screen.



Select "Harmony/Echo."

Use the **data dial**, the [+/YES] button or the [-/NO] button.





Press the [NEXT] button.



CHORD



Select a Harmony/Echo type.

Use the **data dial**, the [+/**YES**] button or the [-/**NO**] button. Refer to the Harmony/Echo Type List (page 157).



 When the Voice Set function is ON (see page 136), the Harmony/Echo type may change according to the selected R1 panel voice.

Applying the Harmony/Echo effect



Press the [STYLE] button (page 34).

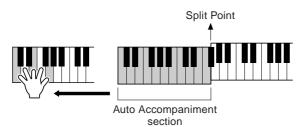


Turn AUTO ACCOMPANIMENT on (page 35).



Play a chord with your left hand.

For this example, play a C major chord.





 Harmony/Echo can not be turned on when the Full Keyboard Auto accompaniment fingering mode is selected. Harmony/Echo will be automatically turned off if the Full Keyboard fingering mode is selected while the Harmony/Echo effect is on.

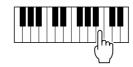


Press the [HARMONY/ECHO] button.





Play some notes in the righthand range of the keyboard.



• When a Harmony type (Duet through Strum) is selected

This type automatically add one or more harmony notes to a single-note melody played in the right hand.

When an Echo type is selected

An echo effect is applied to the note played on the keyboard at the currently set tempo.

Steps #1 - #3 above are unnecessary for this type.

• When a Tremolo type is selected

A tremolo effect is applied to the note played on the keyboard at the currently set tempo.

Steps #1 - #3 above are unnecessary for this type.

● When a Trill type is selected

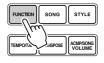
Two notes held on the keyboard are played alternately at the currently set tempo. Steps #1 - #3 above are unnecessary for this type.

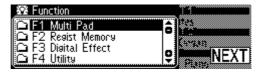
Adjusting the Harmony/Echo volume

The volume of the Harmony/Echo sound in relation to the keyboard sound can be adjusted as follows:



Press the [FUNCTION] button.







Select "Digital Effect."

Use the **data dial**, the [+/YES] button or the [-/NO] button.

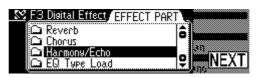


Press the [NEXT] button to display the Digital Effect screen.



Select "Harmony/Echo."

Use the **data dial**, the [+/YES] button or the [-/NO] button.



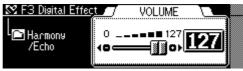


Press the [NEXT] button to display the Type selection screen.



Press the [NEXT] button to display the Harmony/Echo VOL-UME screen.







Adjust the Harmony/Echo volume.



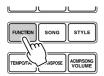
- When the Voice Set function is ON (see page 136), the Harmony/Echo Volume may change according to the selected R1 panel voice.
- Changing the volume of the harmony sound may not produce audible effect for some R1 voices (ex. organ sounds) when you select Harmony/Echo types "Duet" through "Strum."

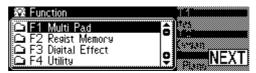
Change the voice for the Harmony/Echo effect

This allows you to select the voice which is used for the harmony or echo effect.



Press the [FUNCTION] button.







Select "Digital Effect."

Use the data dial, the [+/YES] button or the [-/NO] button.

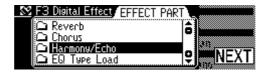


Press the [NEXT] button to display the Digital Effect screen.



Select "Harmony/Echo."

Use the $data\ dial$, the [+/YES] button or the [-/NO] button.





Press the [NEXT] button to display the Type selection screen.



Press the [NEXT] button to display the Harmony/Echo VOL-UME screen.



Press the [NEXT] button to display the HARMONY PART setting screen.







Set the part.

Use the data dial, the [+/YES] button or the [-/NO] button.

- Auto Harmony/Echo notes are automatically assigned to the R1 and R2 parts, in that order or priority.
- R1..... Harmony/Echo is only applied to the Voice R1.

 R1.....
 - If Voice R1 is off, there will be no Harmony/Echo effect.
- R2............. Harmony/Echo is only applied to the Voice R2.
 If Voice R2 is off, there will be no Harmony/Echo effect.

When the Voice Set function is on (page 136), the Harmony/Echo part setting may change according to the selected R1 panel voice.

Master EQ (PSR-740)

Usually an equalizer is used to correct the sound output from amps or speakers to match the special character of the room. The sound is divided into several frequency bands, then by raising or lowering the level for each band, the correction is made. Adjusting the sound you play according to the genre—classical music being more refined, pops music more crisp, and rock music more dynamic—can also serve to draw out the special characteristics of the music and make your performance more enjoyable.

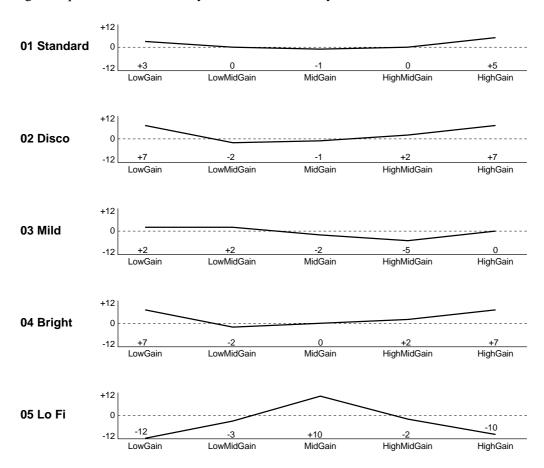
The PSR-740 possesses a high grade five-band digital equalizer function. With this function, a final effect—tone control—can be added to the output of your instrument.

Frequency Bands (5 bands)

LowGain LowMidGain MidGain HighMidGain HighGain

The digital equalizer adjusts the gain (amplitude change) in each of the five frequency bands within a range of -12 to 0 to +12 decibels [dB].

The PSR-740 has five separate preset Master EQ settings (below) for instantly configuring the equalization for a variety of different music styles.



The equalizer can be set in two ways:

- Selecting one of the five presets page 60
- Adjusting the five bands manually page 61

NOTE

 The range of each frequency band can be changed by transmitting the system exclusive message from an external MIDI device to the PSR-740/640 (see page 163).

Applying the equalizer



Press the [MASTER EQ] button.

This applies the equalizer effect to the entire sound of the instrument.



Listen to the difference in the sound by playing back the auto accompaniment, demo, and songs.



To cancel the equalizer effect, press the [MASTER EQ] button again.

Selecting a Master EQ type

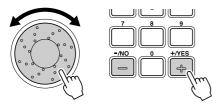


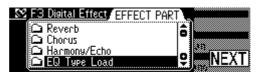
Use the same operation as in "Reverb" (page 50).



Select "EQ Type Load."

Use the **data dial**, the [+/YES] button or the [-/NO] button.







Press the [NEXT] button.







Select a master EQ type.

Use the **data dial**, the [+/**YES**] button or the [-/**NO**] button. For a list of the equalizer types, see page 59.



Press the [NEXT] button.





Press the [+/YES] button to actually enable the equalization settings of the selected type.

Press the [-/NO] button to abort the operation.



Setting the Gain



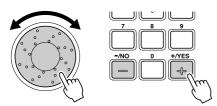
3 ι

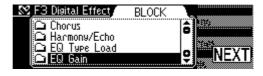
Use the same operation as in "Reverb" (page 50).



Select "EQ Gain."

Use the $data\ dial$, the [+/YES] button or the [-/NO] button.

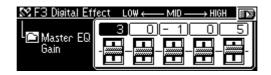






Press the [NEXT] button.





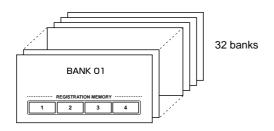


Adjust the gain of each band.

Registration Memory

Since the PSR-740/640 is such a sophisticated instrument with such a variety of controls and functions — voice, style, auto accompaniment, and effect settings, just to name a few — the Registration Memory feature is one of the most convenient and powerful of the instrument. It allows you save virtually all panel settings to a Registration Memory setting, and then instantly recall your custom panel settings by pressing a single button.

Registration Memory provides up to 128 complete control-panel setups (32 banks, 4 setups each) that can be recalled instantly during your performance.



The PSR-740/640's initial Registration Memory [1]-[4] settings (when it shipped from the factory) are the same panel settings as when the power switch is first turned on.

	Registering the Panel Settings	page 63
ı	Recalling the Registered Panel Settings	
ı	Selecting a Registration Bank	
	Naming the Registration Banks	page 64

Data stored by the Registration Memory

■ VOICE PARAMETERS

• Part on/off (VOICE R1, R2, L)
Voice Change setting (VOICE R1, R2, L) page 89
Mixer setting (VOICE R1, R2, L, Vocal Harmony) page 90
Parameter Edit setting (VOICE R1, R2, L)
• Touch Sensitivity
• DSP on/off, FAST/SLOW on/off, DSP Type and Return Level (PSR-640) page 53
• HARMONY/ECHO on/off, type, volume, part page 56
• TOUCH on/off page 136
• SUSTAIN on/off
Pitch Bend Range page 139
Scale Tuningpage 135
• Footswitch function
• Foot Volume function
• Transpose
Part Octave setting
Modulation Wheel function (PSR-740)page 139
Organ Flutes settings (PSR-740)
Vocal Harmony settings (PSR-740)
Multi Effect settings (PSR-740)
,

NOTE

 Material recorded data is retained in memory even when the STANDBY switch is turned off if an AC adaptor is connected (page 159). It is nevertheless a good idea to save important data to floppy disk so that you can keep them indefinitely and build up your own data library (page 65).

■ ACCOMPANIMENT PARAMETERS

Registration Memory data can be saved to and loaded from floppy disk as needed (page 65).

Registering the Panel Settings



Set up the panel controls as required.



Press the round Registration Memory button to call up the Registration Memory function.





 Any data that was previously recorded in the Registration Memory location you selected will be erased and replaced by the new settings.



While holding the [MEMORY] button, press one of the REGISTRATION MEMORY buttons: [1] through [4].

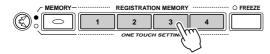


In this example, the panel settings are memorized to button number 1.

Recalling the Registered Panel Settings



Press one of the REGISTRATION MEMORY buttons: [1] through [4].



In this example, the panel settings memorized to button number 3 are recalled.

The Accompanient Freeze function

When the FREEZE function is engaged, selecting a different Registration Memory setup will not change any of the accompaniment and Voice L parameters (all other parameters will change as programmed). This allows you to use the auto accompaniment and select different Registration Memory setups, without suddenly disturbing the flow of the accompaniment.



Press the [FREEZE] button.

The [FREEZE] lamp lights.



2

Press one of the REGISTRATION MEMORY buttons: [1] through [4].



In this example, only the voice parameter (other than Voice L) settings memorized to button number 1 are recalled.



- Registration data cannot be recalled when the One Touch Setting function is on.
- Some parameters cannot be recalled depending on the selected mode. For example, you cannot recall the Voice R2/L voices in the Style Record mode and Pad Record mode even if you press the Registration Memory buttons, since only the Voice R1 voice is used in those modes.

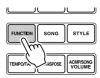


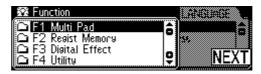
- For details about Accompaniment parameters, see page 62.
- The Freeze function will automatically be turned on when one of the following modes, Song, Style Record or Pad Record is engaged.

Selecting a Registration Bank



Press the [FUNCTION] button.

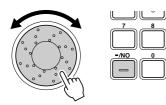


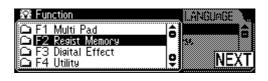




Select "Regist Memory."

Use the data dial, the [+/YES] button or the [-/NO] button.

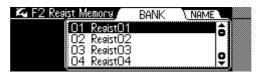




3

Press the [NEXT] button to display the Regist Memory BANK screen.







Select a bank.

Use the **data dial**, the [+/YES] button, the [-/NO] button or the number buttons [1]-[0].

Naming the Registration Banks



Press the [FUNCTION] button.



Select "Regist Memory."

Use the data dial, the [+/YES] button or the [-/NO] button.



Press the [NEXT] to display the Regist Memory BANK screen.



Press the [NEXT] button to display the NAME screen.







Enter the desired name for the bank.

Use the keyboard to enter the name. Up to 16 letters or characters can be used.

Disk Operations

Built into the PSR-740/640 is a disk drive. Simply insert a floppy disk, and you've got access to a wide variety of convenient functions, such as recording and playback of User songs (page 92), as well as saving and loading of User styles (page 110), User pads (page 106), and Registration Memory data (page 62).

You can save any number of User styles/pads and registration data to floppy disks, create your own song libraries, or find many other ways to make playing and using the PSR-740/640 more efficient.

 The PSR-740/640 is capable of playing back songs contained on the included sample disk, as well as commercially available song data in the following formats, indicated by the corresponding logos (page 9):

GENERAL MID You can play back song files collected on these disks using the voices defined in the GM standard.



You can play back songs using the XG format, an extension of the GM standard that allows for much higher sound quality.

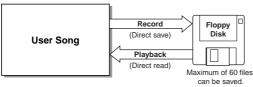


You can play back song files collected on these disks using the voices defined in Yamaha's DOC format.

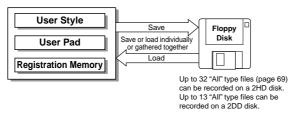
 The PSR-740/640 is compatible with style data contained on the included sample disk, as well as commercially available disk styles in the following format, indicated by the corresponding logo (page 9):

STYLE You can load and play with the style files collected on these disks.

 You can record your own performances to User songs and play them back (page 92).



 The PSR-740/640 features special User style, User pad and Registration Memory functions. The data recorded with these functions can also be saved to disk individually or in any combination. Likewise, data (files) saved to disks can be loaded individually or in any combination to the PSR-740/640.



User data compatible with the PSR-740/640 is indicated in the chart below.

Data that can be Saved or Loaded with the PSR-740/640

Data Type	Extension	Save	Load
User song			
(Standard MIDI format0)	.MID	-	-
User style			
(Style file format)	.USR	0	0
User pad	.USR	0	0
Registration Memory	.USR	0	0

Other disk functions include:

• Format	page 68
• Copy	
Delete	



 Refer to page 9 for more details on the logos.

NOTE

 It may not be possible to record the full 60 files to a disk, depending on the length of the recorded files.



 The maximum number of files may vary according to the type and volume of the saved files (page 69).

NOTE

- When saving data, use a floppy disk formatted on the PSR-740/640.
- The three letters following the file name (after the period) are referred to as a file "extension." The extension indicates the type of file.
- Since the user songs are directly recorded to the disk as you play during recording and read from the disk during playback, the Save/Load functions are not available. The Copy and Delete File operations related to the user songs can be executed.

Using the Floppy Disk Drive (FDD) and Floppy Disks

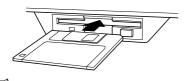
Be sure to handle floppy disks and treat the disk drive with care. Follow the important precautions below.

■ Compatible Disk Type

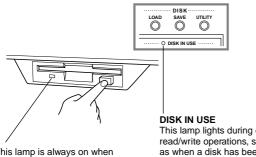
3.5" 2DD and 2HD type floppy disks can be used.

■ Inserting/Ejecting Floppy Disks

- To insert a floppy disk into the disk drive:
 - Hold the disk so that the label of the disk is facing upward and the sliding shutter is facing forward, towards the disk slot. Carefully insert the disk into the slot, slowly pushing it all the way in until it clicks into place and the eject button pops out.



- NOTE
- When the PSR-740/640 is turned on, the LED below the floppy disk slot will be lit indicating that the Disk Drive is ready to use.
- To eject a floppy disk:
 - · Before ejecting the disk, be sure to confirm that the FDD is stopped (check if the DISK IN USE lamp is off). Press the eject button slowly as far as it will go; the disk will automatically pop out. When the disk is fully ejected, carefully remove it by hand.



- This lamp is always on when the power is on, regardless of the disk operation.
- This lamp lights during disk read/write operations, such as when a disk has been inserted, during recording, playback, formatting, etc.
- If the eject button is pressed too quickly, or if it is not pressed in as far as it will go, the disk may not eject properly. The eject button may become stuck in a half-pressed position with the disk extending from the drive slot by only a few millimeters. If this happens, do not attempt to pull out the partially ejected disk, since using force in this situation can damage the disk drive mechanism or the floppy disk. To remove a partially ejected disk, try pressing the eject button once again, or push the disk back into the slot and then repeat the eject procedure.
- Never attempt to remove the disk or turn the power off during recording, reading and playing back. Doing so can damage the disk and possibly the disk drive.
- Be sure to remove the floppy disk from the disk drive before turning off the power. A floppy disk left in the drive for extended periods can easily pick up dust and dirt that can cause data read and write errors.

■ Cleaning the Disk Drive Read/Write Head

- Clean the read/write head regularly. This instrument employs a precision magnetic read/write head which, after an extended period of use, will pick up a layer of magnetic particles from the disks used that will eventually cause read and write errors.
- To maintain the disk drive in optimum working order Yamaha recommends that you use a commerciallyavailable dry-type head cleaning disk to clean the head about once a month. Ask your Yamaha dealer about the availability of proper head-cleaning disks.
- Never insert anything but floppy disks into the disk drive. Other objects may cause damage to the disk drive or floppy disks.

■ About the Floppy Disks

- To handle floppy disks with care:
 - · Do not place heavy objects on a disk or bend or apply pressure to the disk in any way. Always keep floppy disks in their protective cases when they are not in use.
 - Do not expose the disk to direct sunlight, extremely high or low temperatures, or excessive humidity, dust
 - Do not open the sliding shutter and touch the exposed surface of the floppy disk inside.
 - Do not expose the disk to magnetic fields, such as those produced by televisions, speakers, motors, etc., since magnetic fields can partially or completely erase data on the disk, rendering it unreadable.
 - Never use a floppy disk with a deformed shutter or housing.
 - Do not attach anything other than the provided labels to a floppy disk. Also make sure that labels are attached in the proper location.
- To protect your data (write-protect tab):
 - · To prevent accidental erasure of important data, slide the disk's write-protect tab to the "protect" position (tab open).





ON (locked or write protected)



OFF (unlocked or write enabled)

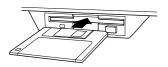
- Data backup
 - For maximum data security Yamaha recommends that you keep two copies of important data on separate floppy disks. This gives you a backup if one disk is lost or damaged.

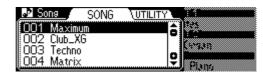
Sample Disk

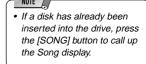
Disk song playback



Insert the sample disk into the disk drive.



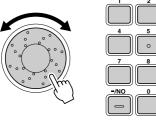


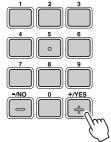


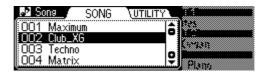


Select the desired song.

Use the **data dial**, the [+/YES] button, the [-/NO] button or the number buttons [1]-[0].

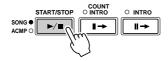








Press the [START/STOP] button to start the song.







Press the [START/STOP] button again to stop the song.

For details, see "Song Playback" (page 76).

Format

Setting up commercially available floppy disks for use with PSR-740/640 is called formatting.

This function is useful for quickly deleting unnecessary files from an already formatted disk. Be careful when using this operation, since it automatically deletes all data on the disk.



· After formatting, the capacity of a 2HD disk is 1 MB, and that of a 2DD disk is 720 KB.

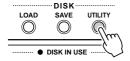


Insert the floppy disk into the disk drive.

When a (new) blank disk or an incompatible disk is inserted an alert message will be displayed on the screen. In this case, press the [EXIT] button to show "OK to format the disk?" and then simply follow the procedure 5 below.



Press the [UTILITY] button.





NOTE

· When the floppy disk's writeprotect tab is set to ON (see page 66) or the disk is a purposely "copy-protected" disk, an alert message appears indicating that the Format function is not possible.



Select "Format."

Use the data dial, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button to display the Format operation screen.







Execute the Format operation.

Press the [+/YES] button to execute the Format operation.

Press the [-/NO] button to abort the Format operation.



Exit

⚠ CAUTION

- · If data is already saved on the disk, be careful not to format it. If you format the disk, all the previously recorded data will be deleted.
- · While formatting is in progress, never eject the disk or turn off the power to the PSR-740/640.
- · If a disk that cannot be read by the PSR-740/640 is inserted into the disk drive, it will be treated the same as an unformatted floppy disk. Take care not to erase important data by accidentally formatting a disk.

Save

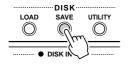
You can save PSR-740/640 User styles, User pad (banks 37-40) and Registration Memory data (banks 01-32) to floppy disks.



Insert the floppy disk into the disk drive.



Press the [SAVE] button.







 When the floppy disk's writeprotect tab is set to ON (see page 66) or the disk is a purposely "copy-protected" disk, an alert message appears indicating that the Save function is not possible.



Select the file type.

Use the **data dial**, the [+/YES] button or the [-/NO] button. Refer to the file type list below:

All	Save all User Style (161-163), User Pad (bank 37-40), and Registration
	Memory (bank 01-32) and all setup data into one single file.
Style + Reg.	Save all User Style (161-163) and Registration Memory (bank 01-32)
	data gathered together into one single file.
Style	Save all User Style (161-163) data gathered together into one single file.
Multi Pad	Save all User Pad (bank 37-40) data gathered together into one single
	file.
Regist	Save all Registration Memory (bank 01-32) data gathered together into
	one single file.



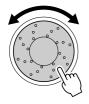
· Although all User Style, User Pad, and Registration Memory data can be saved gathered into one single file, the data can be recalled individually when loaded back into the PSR-740/640.

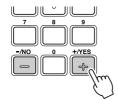


Press the [NEXT] button to display the FILE selection screen.



Use the **data dial**, the [+/YES] button or the [-/NO] button. Select NEW when creating a new file.







NOTE

· If you've selected a file that already contains data and you rename the file with the intent of overwriting the data. renaming the file will simply copy that data to the new file name, and leave the original data and file name intact.



Press the [NEXT] button to display the NAME screen.



Enter the file name directly from the keyboard (page 21).







\triangle CAUTION Press the [NEXT] button to display the Save operation

· While data is being saved, never eject the floppy disk or turn off power to the PSR-740/640.







- If there isn't enough space on the disk, an alert message appears, and you will not be able to save any data. You can delete unneeded files on the disk (page 75), or replace the disk with a new one and repeat the Save operation.
- · If a write error occurs during a save operation, an alert message message appears. If the error reoccurs after repeating the Save operation, there could be something wrong with the disk Insert a different disk in the drive and repeat the Save operation.



Execute the Save operation.

Press the [+/YES] button to execute the SAVE operation.

Press the [-/NO] button to abort the SAVE operation.



🕮 Back to continue

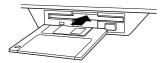
Exit

Load

After saving User style (161-163), User pad (banks 37-40), and Registration Memory (bank 01-32) data to a floppy disk, you can reload them into the PSR-740/640.

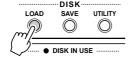


Insert the floppy disk into the disk drive.





Press the [LOAD] button.

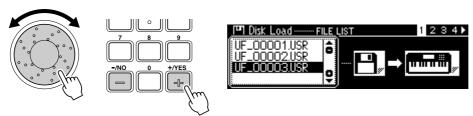






Select the file to be loaded.

Use the data dial, the [+/YES] button or the [-/NO] button.





Press the [NEXT] button to display the DATA TYPE selection screen.



Select the data type to be loaded.

Use the data dial, the [+/YES] button or the [-/NO] button.

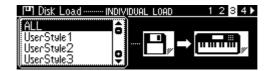


Data types that can be loaded	
All, Style, Pad, Regist	To Step 10
Style+Reg.	To Step 10
Style	To Step 6
Multi Pad	To Step 6
Regist	To Step 6

Please follow the steps as indicated in the chart above, since the actual operation differs depending on the selected data type.



Press the [NEXT] button.





Select the data to be loaded.

Use the **data dial**, the [+/YES] button or the [-/NO] button. When "All" is selected, go to step #10 skipping over steps #8 and #9.



Press the [NEXT] button to display the LOAD TO screen.



Select the destination.

Use the **data dial**, the [+/YES] button or the [-/NO] button.





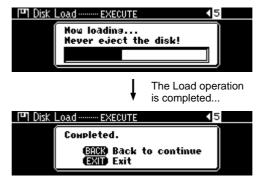
Press the [NEXT] button to display the Load operation screen.





Execute the Load operation.

Press the [+/YES] button to execute the Load operation. Press the [-/NO] button to abort the Load operation.



⚠ CAUTION

- When data is loaded from a floppy disk to the PSR-740/640, the data already in the memory of the instrument will be replaced by the data on the disk. Save important data into a disk file before doing the Load operation.
- While data is loading, never eject the floppy disk or turn the power off.



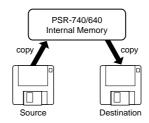
 An alert message may appear on the display, if a problem occurs that prevents the data from being loaded. (For example, the capacity of the PSR-740/640 [RAM] may be exceeded, something may be wrong with the floppy disk or the data from the disk may be corrupted, etc.).

Song Copy

This operation allows you to make backup copies of your important data. Primarily, this will come in handy when you are recording and editing song data. For example, if you are quantizing the track of a song (page 100) — which makes permanent changes to the track — making a backup copy of the song allows you to restore the original song data in case you're not satisfied with the results of the quantization. Having a dedicated backup disk for every song you work on is a good idea. In this way, you can save a new copy of the song each time you make an important edit to it.

Copying song data from one floppy disk to another

Prepare a backup disk by formatting it. One file can be copied at a time. As shown in the illustration below, first copy the desired file on the disk to internal memory, then copy it to the destination disk.





 When the destination disk's write-protect tab is set to ON (see page 66) or the disk is a purposely "copy-protected" disk, an alert message appears indicating that the Copy function is not possible.

If the quantity of data is large, it may be necessary for the data to be copied in parts.

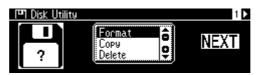


Insert the disk to be copied (source disk) into the disk drive.



Press the [UTILITY] button.







Select "Copy."

Use the data dial, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button to display the Disk selection screen.







Select "ANOTHER."

Use the data dial, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button to display the FILE selection screen.







Select the source song file.

Use the **data dial**, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button to display the NAME screen.







Enter the destination song file name directly from the keyboard (page 21).



Press the [NEXT] button to display the Copy operation screen.

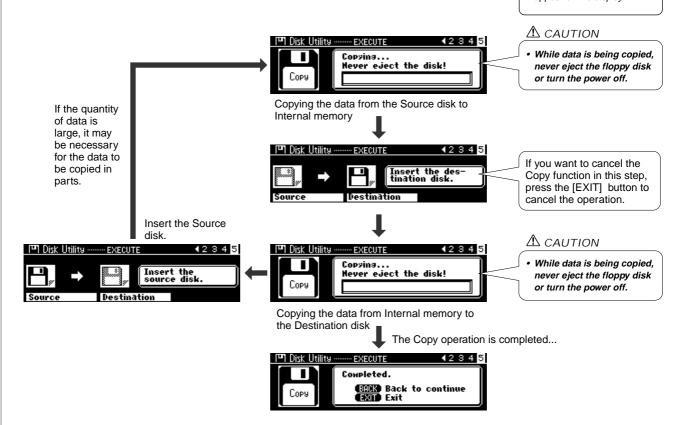




Execute the Copy operation.

Press the [+/YES] button to execute the Copy operation. Press the [-/NO] button to abort the Copy operation.

If you insert a wrong disk, different from the source or destination disk, during the Copy operation, an alert message (page 160) will appear on the display.



Copying data to another location on the same disk



Use the same operation as in "Copying data from one floppy disk to another" (page 72).



Select "SAME."

Use the data dial, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button to display the FILE selection screen.







Select the song source file.

Use the **data dial**, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button to display the NAME screen.



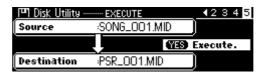




Enter the destination song name directly from the keyboard (page 21).



Press the [NEXT] button to display the Copy operation screen.





Execute the Copy operation.

Press the [+/YES] button to execute the Copy operation. Press the [-/NO] button to abort the Copy operation.





 While data is being copied, never eject the floppy disk or turn the power off.

Delete

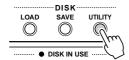
You can delete individual files (User songs, User styles, User pads, or Registration Memory) from the floppy disk.



Insert the floppy disk into the disk drive.



Press the [UTILITY] button.





When the floppy disk's write-protect tab is set to ON (see page 66) or the disk is a purposely "copy-protected" disk, an alert message appears indicating that the Delete function is not possible.



Select "Delete."

Use the data dial, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button to display the FILE selection screen.







Select the file to be deleted.

Use the data dial, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button to display the Delete operation screen.







Execute the Delete operation.

Press the [+/YES] button to execute the Delete operation. Press the [-/NO] button to abort the Delete operation.





△ CAUTION

 While the file is being deleted, never eject the floppy disk or turn the power off.

Disk Song Playback

You can playback a huge variety of songs on the PSR-740/640, including the preset demo songs, the songs on the included sample disk, the User songs that you record to a floppy disk and songs on commercially available XG/GM song collection disks. Except for the preset demo songs, a floppy disk must be inserted in the disk drive to playback a song.

 The following disks are compatible for playback on the PSR-740/640 (including the sample disk). Refer to page 9 for more details on the logos.



You can play back song files collected on these disks using the voices defined in the GM standard.



You can play back songs using the XG format, an extension of the GM standardthat allows for much higher sound quality.



You can play back song files collected on these disks using the voices defined in Yamaha's DOC format.

- Disk songs can be played back in five different ways:page 77
 - SINGLE
 - SINGLE REPEAT
 - ALL
 - ALL REPEAT
 - RANDOM
- Additional song playback functions:

Song Track Muting	page 78
• Tempo/Tap	
Song Volume Control	page 78
Song Transpose	
Playing from a Specified Measure	
Repeat Play	

IMPORTANT/

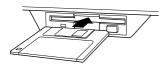
 Make sure to read the section "Using the Floppy Disk Drive (FDD) and Floppy Disks" on page 66.

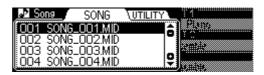
Song Playback



Insert the disk that contains song data into the disk drive.

PSR-740/640 will automatically switch into Song mode.





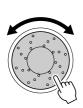


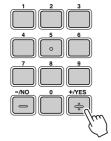
- If a disk has already been inserted into the drive, press the [SONG] button to call up the Song display.
- Inserting a disk that does not have any song data will not automatically call up the Song display.

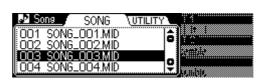


Select the desired song.

Use the **data dial**, the [+/YES] button, the [-/NO] button or the number buttons [1]-[0].



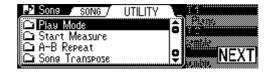






Press the [NEXT] button.







Select "Play Mode."

Use the **data dial**, the [+/YES] button or the [-/NO] button.





Press the [NEXT] button to display the Song Play Mode screen.







Select the desired Play mode.

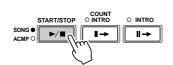
Use the **data dial**, the [+/YES] button or the [-/NO] button.



- SINGLE Play through the selected song, then stop.
- SINGLE REPEAT Play through the selected song repeatedly.
- ALL Continue playback through all the songs on the floppy
- Continue playback through all the songs on the floppy ● ALL REPEAT disk repeatedly.
- RANDOM Continue playback through all the songs at random.



Press the [START/STOP] button to start the song.







Press the [START/STOP] button again to stop the song.

· With song data software (Standard MIDI format 0) that includes lyrics, you can view the lyrics in the display during playback. The PSR-740/640 can display six languages : English, German, French, Spanish, Italian and Japanese.

Song Track Muting

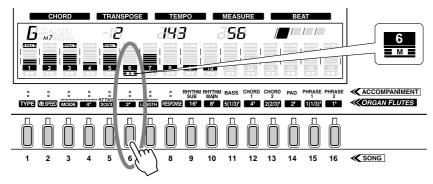
1

Press the [START/STOP] button to start the song.



Press one of the TRACK buttons below the display.

The [M] icon will appear from the display. Also, the selected track will be turned off and the part will be muted.



Pressing the same track button again enables output of the playback sound.



Press the [START/STOP] button again to stop the song.

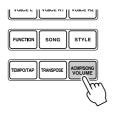
Song Volume Control

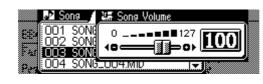


Press the [START/STOP] to start the song.



Press the [ACMP/SONG VOLUME] button.



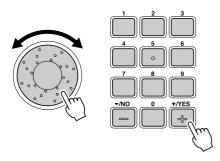


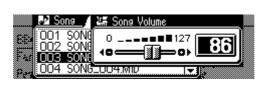
The volume of the keyboardplayed voice(s) is not affected by this operation.

3

Adjust the Song Volume.

Use the **data dial**, the [+/YES] button, the [-/NO] button or the number buttons [1]-[0].





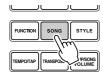


Press the [START/STOP] button again to stop the song.

Playing from a Specified Measure



Press the [SONG] button.



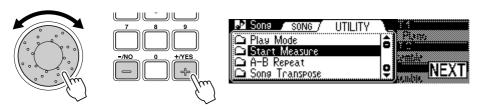


Press the [NEXT] button to display the Song UTILITY screen.



Select "Start Measure."

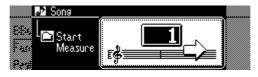
Use the **data dial**, the [+/YES] button or the [-/NO] button.





Press the [NEXT] button to display the Song Start Measure screen.

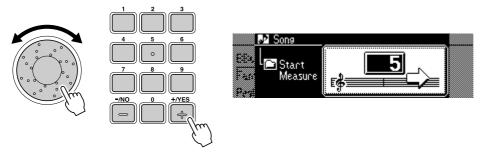






Specify the measure from which to begin playback.

Use the **data dial**, the [+/YES] button, the [-/NO] button or the number buttons [1]-[0].

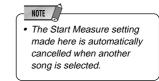




Press the [START/STOP] to start the song from the specified measure.



Press the [START/STOP] button again to stop the song.



Repeat Play



Press the [SONG] button.

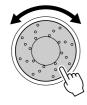


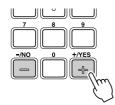
Press the [NEXT] button to display the Song UTILITY screen.

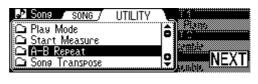


Select "A-B Repeat."

Use the **data dial**, the [+/YES] button or the [-/NO] button.









Press the [NEXT] to display the A-B Repeat screen.



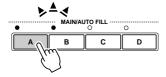




Press the [START/STOP] button to start the song.



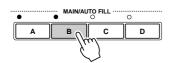
Press the [MAIN A] button at the starting point (A) to be repeated.







Press the [MAIN B] button at the ending point (B) to be repeated.





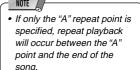
Repeat playback is now set and the selected section automatically repeats indefinitely (until disabled or stopped in the steps below).



To cancel the the repeat function and continue song playback, press the [MAIN A] button again.



Press the [START/STOP] button to stop the song.





 Repeat playback will be cancelled if a different song is selected.

Song Transpose



Press the [SONG] button.

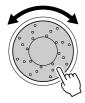


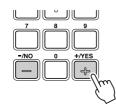
Press the [NEXT] button to display the Song UTILITY screen.

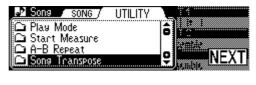


Select "Song Transpose."

Use the **data dial**, the [+/YES] button or the [-/NO] button.









Press the [NEXT] button to display the Song Transpose screen.





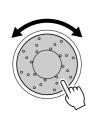


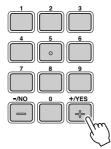


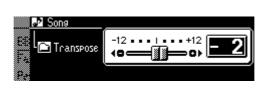
Set the Transpose value.

Use the **data dial**, the [+/YES] button, the [-/NO] button or the number buttons [1]-[0].

The transpose range is from -12 to +12. Each step corresponds to one semitone, allowing a maximum upward or downward transposition of one octave. A setting of "0" produces normal pitch.









NOTE

 This operation does not affect the pitch of the

Changes made to the

keyboard-played voice(s)

transpose setting (on page 30) affect the entire sound of the PSR-740/640, including the song transpose setting. • Enabling the record mode to record a User sona automatically resets the song

transpose setting to "0."

· Minus values can be entered by using the number buttons while holding the [-/NO]



Press the [START/STOP] to start the song.



Press the [START/STOP] button again to stop the song.



• Steps #1 through #5 can be executed during playback.

Vocal Harmony (PSR-740)

This extraordinarily powerful feature uses advanced voice-processing technology to automatically produce vocal harmony based on a single lead vocal. Four distinct harmony modes as well as an extensive selection of preset harmony types are provided. In addition to straightforward harmony, the PSR-740 also lets you change the apparent gender of the harmony and/or lead vocal sound. For example, if you are a male singer, you can have the PSR-740 automatically generate a two-part female backup. A comprehensive set of parameters gives you exceptionally precise and flexible control over the vocal harmony sound.

Setting up

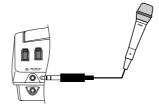


Set the INPUT VOLUME control to "MIN."





Connect a microphone to the MIC/LINE IN jack of the PSR-740.



NOTE

 A standard dynamic microphone with an impedance of about 250 ohms is recommended. (The PSR-740 does not support phantom-powered condenser microphones.)



Set the MIC/LINE panel switch to "MIC."

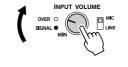




Adjust the INPUT VOLUME control while singing into the microphone.

Use the SIGNAL and OVER indicators to determine the appropriate setting.

With the INPUT VOLUME control at the minimum, sing or talk into the microphone at the highest expected volume. Gradually bring the control up toward "MAX" so



that the SIGNAL indicator is lit and the OVER indicator flashes occasionally. Then reduce the INPUT VOLUME just enough to keep the OVER indicator from flashing. This should be the optimum level setting

NOTE

If the OVER indicator lights regardless of the INPUT VOLUME setting, the output level of the microphone (or other source) is probably too high. Compensate by reducing the output level of the source.

Using the "LINE" setting

Normally, since you will be using a microphone, you may never need to use the "LINE" setting. However, this may come in handy if you want to use a pre-recorded source (on CD or cassette tape) with the vocal harmony feature. (For best results, the source should be a single vocal only; any other singers and instruments in the mix could produce unexpected or undesired results.)

To do this:

- 1 Set the INPUT VOLUME control to "MIN."
- 2 Connect the source to the MIC/LINE IN jack. Use a stereo-to-mono cable or a "Y" cable to combine the left- and right-channel output signals from the source device for input to the PSR-740's mono MIC/LINE IN jack.
- CD player, etc.

⚠ CAUTION

 Never use the "MIC" setting with a line level signal (CD player, cassette deck, etc.). Doing this could damage the PSR-740 and its input functions.

- 3 Set the MIC/LINE panel switch to "LINE."
- 4 Adjust the INPUT VOLUME control.

 Play the source at the highest expected volume, and adjust the INPUT VOLUME control to get the optimum input level (as in the "Setting Up" instructions above).

Using the Vocal Harmony effect



Connect a microphone to the MIC/LINE IN jack of the PSR-740 (page 13).

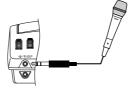


Press the VOCAL HARMONY [ON/OFF] button to turn the Vocal Harmony effect on.





Sing into the microphone.





Play the keyboard while singing into the microphone.

The Vocal Harmony effect can be controlled by the chords you play. How you use chords to control the effect depends on the Vocal Harmony settings. Here are some examples. (For more details, see page 85.)

● When the Harmony mode is set to VOCODER and the Harmony part is set to UPPER:

Play the keys with your right hand while you sing. The Vocal Harmony effect changes chords and notes according to what you play above the auto accompaniment split point.



• When the Harmony mode is set to CHORDAL:

First, turn on the auto accompaniment (page 35) to start the accompaniment. Play the keys with your left hand while you sing. The Vocal Harmony effect changes chords and notes according to what you play below the auto accompaniment split point (in the auto accompaniment section of the keyboard).



The Vocal Harmony effect features various settings, including the harmony type, the quality of the harmony voice and the way in which chords affect the Vocal Harmony.

Pickup of extraneous sounds from the microphone can cause distorted Vocal Harmony sound.

⚠ CAUTION

· Separate the microphone from the instrument's speakers as much as possible.

NOTE /

· If you experience distorted or out-of-tune sound from the Vocal Harmony feature, your vocal microphone may be picking up extraneous sounds (other than your voice) -– the Auto Accompaniment sound from the PSR-740, for example, In particular, bass sounds can cause mistracking of the Vocal Harmony feature.

The solution to this problem is to ensure that as little extraneous sound as possible is picked up by your vocal microphone:

- · Sing as closely to the microphone as possible.
- · Use a uni-directional microphone.
- Turn down the MASTER VOLUME, ACMP volume or SONG volume control.

Press the [REVERB], [DSP4] and [TALK] buttons (to turn the respective functions on or off as desired).



• REVERB This is the same Reverb effect as described on page 50.

This button determines whether the currently selected Reverb effect is applied to the microphone sound or not. ● DSP4 The PSR-740 has a DSP effect (DSP 4) especially for the microphone sound, and this button turns the DSP 4 effect on/off. The DSP 4 type can be set from the Multi Effect

display, or from the Talk Setting display.

◆ TALK This calls up the Talk Settings, which are related to the microphone sound. These include the volume balance between the microphone sound and the overall sound of the PSR-740, the Vocal Harmony type and the DSP type.



Set the INPUT VOLUME to the minimum, then turn off the power.

Changing the harmony settings

The Vocal Harmony effect has a variety settings that let you determine the character of the harmony and how the harmony is controlled. These settings can be called up by turning on the VOCAL HARMONY [ON/OFF] button.

Follow the instructions below to change the settings.



Press the [VOCAL HARMONY] button.



Select a Vocal Harmony type.

Use the **data dial**, the [+/YES] button or the [-/NO] button.

The Harmony mode (page 85) is automatically determined when the type is selected.



Select the Lead Gender type.

Use the **data dial**, the [+/YES] button or the [-/NO] button.



Set the Pitch Correction.

Use the **data dial**, the [+/YES] button or the [-/NO] button.



Select the Pitch to Note setting.

Use the **data dial**, the [+/YES] button or the [-/NO] button.



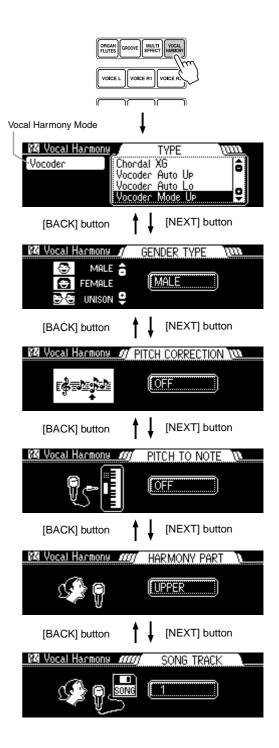
Select a Harmony part.

Use the **data dial**, the [+/YES] button or the [-/NO] button.



Select a song track.

Use the **data dial**, the [+/YES] button or the [-/NO] button.



About the parameters

Vocal Harmony Type

A total of 50 Vocal Harmony types are available, letting you select from a wide range of harmony effects that can be applied to your voice. For details, see the Vocal Harmony Type List on page 158.

Lead Gender Type

This determines the vocal character (or gender) of the harmony effect, selectable from the following types:

- OFFThe voice character of the harmony does not change.
- UNISON.......The harmony voice is changed in gender to some point between male and female.
- MALE The gender of the harmony voice is changed to male.
- FEMALE The gender of the harmony voice is changed to female.

Pitch Correction

Even if the pitch of your voice is slightly "off," you can use this to automatically correct the pitch of your voice, ensuring that it matches with the harmony notes. Pitch Correction cannot be set when the Lead Gender Type is off, or when the Vocal Harmony mode is set to Detune.

Pitch to Note

This function allows you to have a selected instrument voice sound along with and at the same pitch as your own voice. Select the part you wish to be controlled by your voice.

Harmony Part

The Vocal Harmony effect is controlled by the notes you play. This parameter lets you determine which notes (keyboard position, accompaniment or song data) will control the harmony. Harmony Part can only be set when the Vocal Harmony mode is set to Vocoder.

- OFFNo harmony is applied.
- UPPER Notes played on the right side of the keyboard from the split point control the harmony.
- LOWER Notes played on the left side of the keyboard from the split point control the harmony.

Song Track

When playing back a song from disk, the note data recorded to the assigned song track control the harmony.

Vocal Harmony Modes

All of the Vocal Harmony types fall into one of four basic categories, or "modes," which produce harmony in different ways. Although the mode cannot be set directly, since it is fixed for each Vocal Harmony type, the appropriate mode is selected automatically when the type is selected. The harmony effect is dependent on the selected harmony mode and part, and this parameter determines how the harmony is applied to your voice. The four modes are described below.

Chordal

In the Style mode, chords played in the auto accompaniment section of the keyboard control the harmony. In the Song mode, chords contained in song data control the harmony.

Vocoder

The harmony notes are determined by the notes you play on the keyboard (VOICE R1, R2, L).

Chromatic

This mode automatically produces a harmony at a fixed pitch interval from that of your voice, and is applied regardless of the harmony part or the notes you play on the keyboard (or song data).

Detune

This mode automatically produces a slightly "detuned" pitch compared to your voice, creating a rich chorusing effect. It is applied regardless of the harmony part or the notes you play on the keyboard (or song data).

NOTE

When selecting and playing back a song containing Vocal Harmony data, the Vocal Harmony type is selected automatically. However, if you change the type from the panel while the song is selected, the manually selected harmony type overrides the type specified in the song data.

Talk Setting

To call up the Talk Settings, turn on the VOCAL HARMONY [TALK] button.



Press the [FUNCTION] button.



Select "Talk Setting."

Use the **data dial**, the [+/YES] button or the [-/NO] button.



Adjust the Talk volume.

Use the **data dial**, the [+/YES] button, the [-/NO] button or the number buttons [1]-[0].



Adjust the Total volume.

Use the **data dial**, the [+/YES] button, the [-/NO] button or the number buttons [1]-[0].



Select a DSP type.

Use the **data dial**, the [+/YES] button or the [-/NO] button.



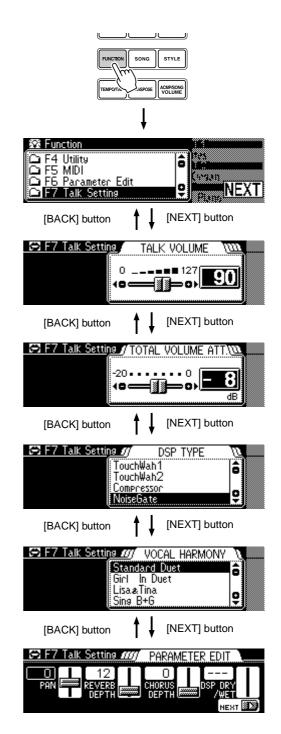
Select a Vocal harmony type.

Use the **data dial**, the [+/YES] button or the [-/NO] button.



Adjust the Pan, Reverb depth, Chorus depth, and DSP dry/wet.

Use the **data dial**, the [+/YES] button, the [-/NO] button or the number buttons [1]-[0].



About the parameters

- ◆ Talk Volume This determines the volume or level of your voice from the microphone over a range of 0 127.

display is recalled.

- Vocal Harmony Type This is the same parameter as the Vocal Harmony type
 described on page 85. When the [TALK] button is turned on,
 the current type setting is recalled.

The DSP Dry/wet parameter determines the amount of the DSP 4 effect (see above) applied to the harmony sound.

Part Settings

In addition to the keyboard-played voices, the PSR-740/640 features many different instrumental "parts," including those contained in the auto accompaniment, song playback, and vocal harmony.

Style mode

	Part
Keyboard	VOICE R1
	VOICE R2
	VOICE L
Auto Accompaniment	RHYTHM SUB
	RHYTHM MAIN
	BASS
	CHORD1
	CHORD2
	PAD
	PHRASE1
	PHRASE2
Vocal Harmony	MIC
(PSR-740)	HARMONY

Song mode

ICE R1 ICE R2 ICE L ACK1
ICE L
ACK1
ACK2
ACK3
ACK4
:
ACK15
ACK16
2
RMONY

Use the following functions to change the settings for each part:

This lets you change the following settings for each part:

Octave

Shifts the pitch of the specified voice or track up or down by one or two octaves. A setting of "0" produces normal pitch.

Pan

Positions the sound of the specified voice or track from left to right in the stereo sound field. "-7" is full left, "7" is full right, "0" is center, and all other settings are corresponding positions in between.

Reverb depth

Sets the reverb depth for the specified voice or track, and thus the amount of reverb effect applied to that voice or track.

• Chorus depth

Sets the chorus depth for the specified voice or track, and thus the amount of chorus effect applied to that voice or track.

DSP depth

Sets the DSP depth for the specified voice or track, and thus the amount of DSP effect applied to that voice or track.

The parameters which can be set for each part are shown in the chart below.

Parameters

Parameter	Voice R1, R2, L	Style	Song	Vocal Harmony	Range	Function
Voice number	0	0	0	_	Refer to the Voice List (page 140)	Voice Change
Volume	0	0	0	0	0 – 127	Mixer
Octave	0	-	0	_	-2 – 2	Parameter Edit
Pan	0	0	0	0	-64 – 63	Parameter Edit
Reverb depth	0	0	0	0	0 – 127	Parameter Edit
Chorus depth	0	0	0	0	0 – 127	Parameter Edit
DSP depth	0	0	0	0	0 – 127	Parameter Edit

O : available



Voice R1, R2, L

- When one of the DSP types belonging to the Insertion Effect (page 54) is selected, the effect will be exclusively applied to voice R1 and not to voice R2/L. Therefore the DSP depth for voice R2/L cannot be changed. Also, the DSP depth for voice R1 cannot be altered depending on the selected Insertion Effect type (PSR-640 only).
- Save any part settings you want to keep to the PSR-740/640
 Registration Memory (page 62). The voice part settings are
 temporary and will be lost if the power is turned off, a different R1
 panel voice is selected while the Voice Set function (page 136) is on,
 or a Registration Memory is recalled.

Song

- Make sure to first select the appropriate song for which you wish to set the part before calling up the relevant display.
- Any part settings made for the song will be lost if you turn off the power, select another song, or select the Style mode (after finishing the part settings). To prevent this, make sure to select the Recording mode and save the song data to disk (page 92).

Auto Accompaniment

- Only drum kit voices (see page 31) can be selected for the RHYTHM MAIN track.
- When using auto accompaniment part settings for the RHYTHM SUB track, any of the voices can be selected but no chord changes will occur when using Auto Accompaniment.
- Make sure to first select the appropriate style for which you wish to set the part before calling up the relevant display.
- Auto accompaniment part settings can even be set while an accompaniment is playing.
- Auto accompaniment part settings affects all sections of the selected style.
- Save any part settings you want to keep to the PSR-740/640
 Registration Memory (page 62). The Auto accompaniment part
 setting are temporary and will be lost if the power is turned off, a
 different style is selected while the Voice Set function (page 136) is
 on, or a Registration Memory is recalled.

Voice Change

In addition to being able to change the voices played from the keyboard (R1, R2, L), you can also change the voices for each track of the auto accompaniment and songs.



Press the [VOICE CHANGE] button.





Select the part for which you want to change voices.

Parts can be selected from the following buttons (depending on the selected mode: Style or Song):

- Voice PART ON/OFF [VOICE R1], [VOICE R2], [VOICE I]
 - buttons
- Accompaniment track [TRACK9]-[TRACK16] buttons (Style mode)
- Song track [TRACK1]-[TRACK16] button (Song mode)



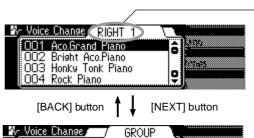
Select a voice.

Use the **data dial**, the [+/YES] button, the [-/NO] button or the number buttons [1]-[0].

Piano

E.Piano Organ Accordion

Refer to the Voice List (page 140).



ô

Selected part for whose voice is to be changed.



Press the [EXIT] button to exit from the VOICE CHANGE screen.

Mixer



Press the [MIXER] button.

The MIXER indicator flashes.

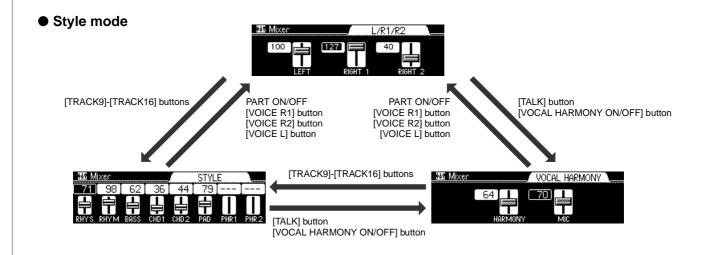


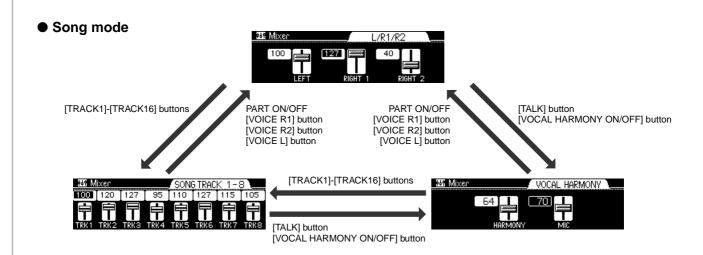


Adjust the volume from the corresponding display.

There are three basic Mixer displays: one for the voices, one for the accompaniment or song tracks, and one for vocal harmony. The illustrations below show how to select the various displays.

To adjust the desired volume setting, use the **data dial**, the [+/YES] button, the [-/NO] button or the number buttons [1]-[0].





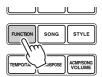


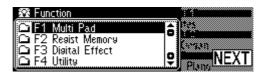
Press the [EXIT] button again to exit from the MIXER screen.

Parameter Edit



Press the [FUNCTION] button.

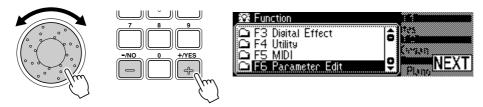






Select "Parameter Edit."

Use the **data dial**, the [+/YES] button or the [-/NO] button.





Press the [NEXT] button to display the Parameter Edit screen.

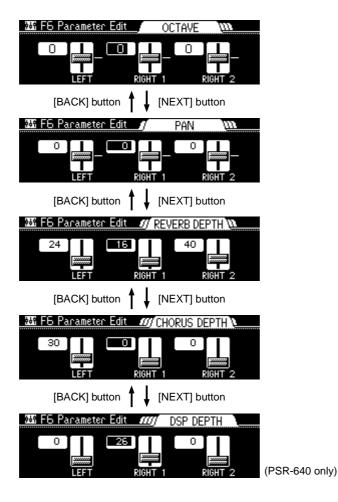


Adjust the parameter value from the corresponding display.

- Use the **data dial**, the [+/**YES**] button, the [-/**NO**] button or the number buttons [1]-[0].
- You can switch among the parts just as with the Mixer function above.
- Switch among the parameter displays by using the [NEXT] button and [BACK] button as shown below.

NOTE

 Minus settings for the Octave and Pan parameters can be directly entered by pressing the appropriate number button while holding the [-/NO] button.



Song Recording

With the powerful and easy-to-use song recording features, you can record your own keyboard performances to a floppy disk as a User song, and create your own complete, fully orchestrated compositions.

Each User song lets you record up to sixteen independent tracks. These include not only the voices for the keyboard performance (R1, R2, L), but also the auto accompaniment parts and vocal harmony effect (PSR-740 only; page 82).



 User Songs are recorded on floppy disks. They cannot be recorded unless a floppy disk is inserted into the disk drive.

The PSR-740/640 provides two different ways to record: Quick Recording and Multi Track Recording. In addition, comprehensive editing functions let you "fine tune" the recorded song data.

- - Punch In/Out _______ page 98
 This function allows you to selectively re-record a portion of a song track (the measures between the specified punch-in and punch-out points.

● Editing page 100

After finishing your recording of a User song, you can play it back in the same way as one of the disk songs.

■ Data that can be recorded to User songs

<u> </u>
• Tempo
Time signature page 16
Accompaniment style number page 34
Section changes and their timing page 36
Chord changes and their timing page 40
Accompaniment volume page 39
Note on/off (key press and release) page 122
Velocity (strength of key press) page 122
• Pitch bend, pitch bend rangepages 30, 139
Modulation wheel (PSR-740)pages 30, 139
Footswitch on/off page 12
• Foot Volume on/off page 12
Voice Change settings* page 89
Mixer settings* page 90
Parameter Edit settings* page 91
Reverb type and settings page 50
Chorus type and settings page 52
DSP (including FAST/SLOW) on/off and type (PSR-640) page 53
DSP1~3 (including FAST/SLOW) on/off and type (PSR-740) page 54
Harmony/Echo on/off and type page 56
Scale tuning page 135
Sustain on/off page 31
Vocal Harmony settings (PSR-740) page 82
Organ Flutes settings (PSR-740) page 32

The maximum amount of song memory is 65,000 notes for 2DD disks and 130,000 notes for 2HD disks.

NOTE

• Songs recorded by the PSR-740/640 are saved as SMF (format 0) files. See page 125 for information on the SMF (format 0) format.

NOTE

- Being able to record note on/ off and velocity means being able to record forte or piano, crescendo or diminuendo, and other subtle elements of expression from the keyboard as you play them.
- Note ON (key press), note OFF (key release), and velocity (strength of key press) are MIDI data events (playing information) (page 122).

■ User Song Tracks

The tracks which can be recorded to the User songs are organized as shown in the chart below.

Track	Other Parts that can be set	Default Part
1	VOICE R1, R2, L, Accompaniment Style track, Vocal Harmony	VOICE R1
2	VOICE R1, R2, L, Accompaniment Style track, Vocal Harmony	VOICE R2
3	VOICE R1, R2, L, Accompaniment Style track, Vocal Harmony	VOICE L
4	VOICE R1, R2, L, Accompaniment Style track, Vocal Harmony	VOICE R1
5	VOICE R1, R2, L, Accompaniment Style track, Vocal Harmony	VOICE R1
6	VOICE R1, R2, L, Accompaniment Style track, Vocal Harmony	VOICE R1
7	VOICE R1, R2, L, Accompaniment Style track, Vocal Harmony	VOICE R1
8	VOICE R1, R2, L, Accompaniment Style track, Vocal Harmony	VOICE R1
9	VOICE R1, R2, L, Accompaniment Style track, Vocal Harmony	Accompaniment Style RHYTHM SUB
10	_	Accompaniment Style RHYTHM MAIN
11	VOICE R1, R2, L, Accompaniment Style track, Vocal Harmony	Accompaniment Style BASS
12	VOICE R1, R2, L, Accompaniment Style track, Vocal Harmony	Accompaniment Style CHORD1
13	VOICE R1, R2, L, Accompaniment Style track, Vocal Harmony	Accompaniment Style CHORD2
14	VOICE R1, R2, L, Accompaniment Style track, Vocal Harmony	Accompaniment Style PAD
15	VOICE R1, R2, L, Accompaniment Style track, Vocal Harmony	Accompaniment Style PHRASE1
16	VOICE R1, R2, L, Accompaniment Style track, Vocal Harmony	Accompaniment Style PHRASE2

The PSR-740/640 provides two different ways to record: Quick Recording and Multi Track Recording.

About Multi Track Recording

In Multi Track Recording, you determine the track assignments (as shown above) before recording. Several tracks can be recorded simultaneously. In addition to being able to record to empty tracks, you can also re-record tracks that already contain recorded data.

About Quick Recording

In Quick Recording, you can quickly record without having to worry about the track assignments above. Quick Recording automatically makes track assignments according to the simple rules below.

- When Record method is set to "MELODY"
 Your keyboard performances (VOICE R1, R2, L) are recorded to tracks 1 3.
- When Record method is set to "ACMP"
 The auto accompaniment parts are recorded to tracks 9 16.
- When Record method is set to "MELODY + ACMP"
 Your keyboard performances (VOICE R1 and R2) are recorded to tracks
 1 2 and the auto accompaniment parts are recorded to tracks 9 -16.

The quick recording method is different from the multi recording method but for both of them, the recorded data is recorded on tracks 1–16.

If you wish to re-record a User song that was originally recorded by the Easy Recording method, use Multi Track Recording.



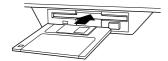
The following notes and cautions are important points for you to keep in mind as you record.

- Using Metronome function (page 134) can make your recording sessions much more efficient.
- Using Registration Memory (page 62) can make your recording sessions much more efficient, since various settings (such as voices, etc.) can be recalled by a single button press. When the record mode is engaged, the Registration Memory Freeze function will be turned on (it cannot be turned off while the record mode is engaged).
- When the record mode is engaged, the Synchro Stop function will be turned off (it cannot be turned on while the record mode is engaged).
- Whenever you record, any previously recorded material in the same track will be erased.
- · Song files on commercially available disks which are not write-protected can be selected and recorded to (edited) on the PSR-740/640. If the song data is of a different format from that of the PSR-740/640 User songs, the display prompts you to convert the song data. By pressing the [+/YES] button, vou can convert the song data to the PSR-740/ 640 format (compatible with the PSR-740/640). Once the conversion operation is finished the PSR-740/640 allows you to record.
- If the disk memory becomes full while recording, an alert message will appear on the display and recording will stop.
- Be careful to avoid the data loss that will occur during recording if the power is turned off, the AC adaptor is unplugged from the outlet.

Quick Recording



Insert the floppy disk into the disk drive.



2

Press the [RECORD] button to engage the Record mode.







Select "Song."

Use the data dial, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button.



5

Press the [NEXT] button again.



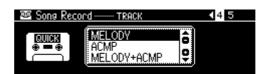


Select "Quick."

Use the **data dial**, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button.





Select a Record method.

Use the data dial, the [+/YES] button or the [-/NO] button.

- MELODY This records your keyboard performance (Voices R1/R2/L) without the auto accompaniment.
- ACMP This records only the auto accompaniment. When this is selected, the auto accompaniment is automatically set to on.
- MELODY + ACMP ... It records your keyboard performance (Voices R1/R2) along with the auto accompaniment. When this is selected, auto accompaniment is automatically set to on.



Press the [NEXT] button to display the RECORD ready screen.

The beat indicator dots will flash at the currently set tempo, indicating that the record ready (Synchro Start) mode is engaged.



10

Start recording.

- If you've selected [MELODY] or [MELODY + ACMP] in step #8 above, recording starts as soon as you play a key.
- If you've selected [ACMP] in step #8 above, the auto accompaniment and recording start simultaneously as soon as a chord is played in the auto accompaniment section of the keyboard (the left side of the split point).
- Recording can also be started by pressing the [START/STOP] button.





 Auto accompaniment cannot be turned on or off during recording.



Stop recording.

- If you've selected [MELODY] in step #8 above, press the [START/STOP] button.
- If you've selected [ACMP] or [MELODY + ACMP] in step #8 above, press the [START/STOP] button or the [ENDING] button. If you press the [ENDING] button while recording the auto accompaniment track, recording will stop automatically after the ending section has finished.



12

Select whether to save the newly recorded data to disk or not.

- To cancel the save operation (for example, when you wish to redo the recording), press the [-/NO] button and re-record starting with step #8 above, after the display returns to the TRACK selection screen.
- To save the data to disk, press the [+/YES] button.



A CAUTION

 While the file is being saved, never eject the floppy disk or turn the power off.



Exit from the Record mode.

Press the [RECORD] button.



Multi Track Recording

Use the same operation as in "Quick Recording" (page 94).



Press the [NEXT] button to display the FILE selection screen.



Press the [NEXT] button.





Select "Multi Track."

Use the **data dial**, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button three times to display the PART setting screen.



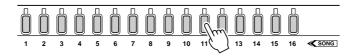
NOTE · For information on the punch in and start measure functions, see pages 98.



Select the desired track and part for recording.

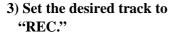
1) Select a track.

Press one of the [TRACK1]-[TRACK16] buttons.



2) Select a part.

Use the data dial, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button and use the data dial, the [+/YES] button or the [-/NO] button.



PL AY RTGHT1 PI AV I FFT RIGHT1 DI AV RIGHT1 DI OV

NOTE / · For information on track assignments, see page 93.

• To record auto accompaniment data, set the [ACMP] button to ON.

• The same part cannot be set to more than one track for recording.

• Make all necessary settings to each track by repeating steps 1) through 3) above.



Press the [NEXT] button to display the Rehearsal screen.

Voices and styles can be set from this display. After completing the desired settings, press the **[EXIT]** button to return to this display.





Press the [NEXT] button to display the RECORD Ready screen

The beat indicator dots will flash at the currently set tempo, indicating that the record ready (Synchro Start) mode is engaged.





Start recording.

- Recording starts as soon as you play a key on the keyboard.
- If you enabled the auto accompaniment track for recording (in steps #8 above), recording starts as soon as you play a chord in the auto accompaniment section of the keyboard (the left side of the split point).
- Recording can also be started by pressing the [START/STOP] button.





 Auto accompaniment cannot be turned on or off during recording.



Stop recording.

- If you did not enable the auto accompaniment track for recording (in steps #8 above), press the [START/STOP] button.
- If you enabled the auto accompaniment track for recording (in steps #8 above), press the [START/STOP] button or the [ENDING] button. If you press the [ENDING] button while recording the auto accompaniment track, recording will stop automatically after the ending section has finished.





Save the recorded data to the disk.

- To cancel the save operation (for example, when you wish to redo the recording), press the [-/NO] button and re-record starting with step #8 above, after the display returns to the PART setting screen.
- To save the data to disk, press the [+/YES] button.



⚠ CAUTION

 While the file is being saved, never eject the floppy disk or turn the power off.



Re-recording — Punch In/Out and Start Measure

This section shows you how to re-record a specific section of a already-recorded song. In the eight-measure example below, the third measures through the fifth measure are re-recorded.





Insert the floppy disk into the disk drive.



Press the [RECORD] button to engage the Record mode.





3

Select "Song."

Use the data dial, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button to display the FILE selection screen.



Select the File you want to re-record.

Use the **data dial**, the [+/YES] button or the [-/NO] button.





Press the [NEXT] button.





Select "Multi Track."

Use the data dial, the [+/YES] button or the [-/NO] button.

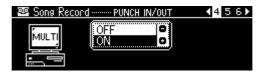


Press the [NEXT] button to display the PUNCH IN/OUT screen.



Select "ON."

Use the **data dial**, the [+/YES] button or the [-/NO] button.





Press the [NEXT] button to display the PUNCH IN/OUT measure screen.



Set the punch-in measure and the punch-out measure.

Use the **data dial**, the [+/YES] button, the [-/NO] button or the number buttons **[1]-[0]**.

- To move the cursor from "PUNCH IN" to "PUNCH OUT," use the [NEXT]
- To move the cursor from "PUNCH OUT" to "PUNCH IN," use the [BACK]



 The punch-out measure number cannot be set lower than the punch-in measure





Press the [NEXT] button to display the START MEASURE



Set the start measure (the measure at which playback starts).

Use the **data dial**, the [+/YES] button, the [-/NO] button or the number buttons [1]-[0].





14 Press the [NEXT] button to display the PART screen.



Record using the same operation as described in "Multi Track Recording" on page 96, starting with step #7.



- Punch In/Out recording cannot be used with the auto accompaniment tracks or a vocal harmony part.
- During recording you can use the TRACK buttons to turn playback of previouslyrecorded tracks on or off as required.

Quantize

Quantize lets you "clean up" or "tighten" the timing of a previously recorded track. For example, the following musical passage has been written with exact quarter-note and eighth-note values.



Even though you think you may have recorded the passage accurately, your actual performance may be slightly ahead of or behind the beat (or both!). Quantize allows you to align all the notes in a track so that the timing is absolutely accurate to the specified note value.



Use the same operation as in "Re-recording" (page 98).



Select the Song file to be quantized.

Use the data dial, the [+/YES] button or the [-/NO] button.





Press the [NEXT] button.



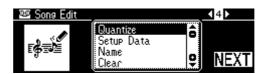


Select "Edit."

Use the data dial, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button.





Select "Quantize."

Use the data dial, the [+/YES] button or the [-/NO] button.

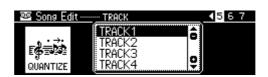


Press the [NEXT] button to display the TRACK selection screen.

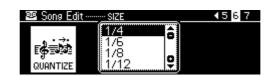


Select the track to be quantized.

Use the **data dial**, the [+/YES] button or the [-/NO] button.



12 Press the [NEXT] button.

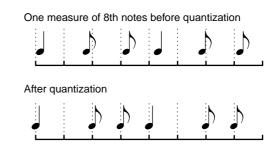


13 Select the Quantize size (resolution).

Use the $data\ dial$, the [+/YES] button or the [-/NO] button.

Set the Quantize value to correspond to the smallest notes in the track you are working with. For example, if the data was recorded with both quarter notes and eighth notes, use 1/8 for the quantize value. If the quantize function is applied in this case with the value set to 1/4, the eighth notes would be moved on top of the quarter notes.

Quantize Size		
Size	Note	
1/4	Quarter note	
1/6	Quarter note triplet	
1/8	Eighth note	
1/12	Eighth note triplet	
1/16	Sixteenth note	
1/24	Sixteenth note triplet	
1/32	Thirty-second note	

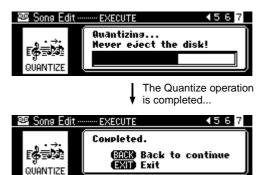


Press the [NEXT] button to display the Quantize operation screen



Press the [+/YES] button to execute the Quantize operation.

To abort the Quantize operation, press the [-/NO] button.



 While the Quantize operation is being executed, never eject the floppy disk or turn the power off.

Editing Setup Data

This function lets you make changes to various voice-related parameters (setup data) for each track of a recorded song. The following parameters can be edited:

Voice Volume	Assigns a voice number to the specified track. Sets the volume of the specified track.
Octave	Shifts the pitch of the specified track up or down by one or two octaves. A setting of "0" produces normal pitch.
● Pan	Positions the sound of the specified track from left to right in the stereo sound field. A setting of "-7" is full left, "7" is full right, "0" is center, and all other settings are corresponding positions in between.
Reverb depth	Sets the reverb depth for the specified track, and thus the amount of reverb effect applied to that voice or track.
Chorus depth	Sets the chorus depth for the specified track, and thus the amount of chorus effect applied to that voice or track.
DSP depth	Sets the DSP depth for the specified track, and thus the amount of DSP effect applied to that voice or track.

Only one of the Setup parameters can be recorded to each track, and any parameter changes made in the middle of the song will be cancelled. However, in the case of Volume data, any Volume changes in the middle of the song are applied as an offset to the initial Setup Data setting.



Use the same operation as in "Re-recording" (page 98).



Select the file (song) for which you wish to change the setup data.

Use the data dial, the [+/YES] button or the [-/NO] button.





Press the [NEXT] button to display the MODE selection screen.



Select "Edit."

Use the data dial, the [+/YES] button or the [-/NO] button.



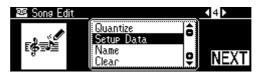


Press the [NEXT] button.



Select "Setup Data."

Use the data dial, the [+/YES] button or the [-/NO] button.





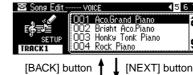
Press the [NEXT] button to display the SETUP DATA screen.

Edit the setup data.

Press the [NEXT] and [BACK] buttons to switch among the displays (as shown below).

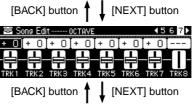
- Select a track by pressing one of the [TRACK1]-[TRACK16] buttons.
- Use the data dial, the [+/YES] button, or the [-/NO] button to change the desired values in each display.



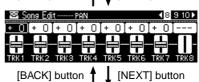




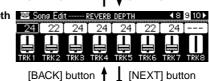




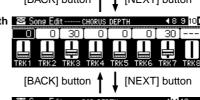
• Pan



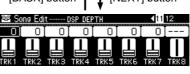
• Reverb depth Sons Edit -



• Chorus depth Sons Edit



DSP depth





Press the [NEXT] button to display the setup data saving screen.





Save the changed data to the floppy disk.

- To cancel the save operation (if you wish to redo any edits), press the [-/NO] button and continue editing starting with step #11 above, after the display returns to the SETUP DATA screen.
- To save the data to disk, press the [+/YES] button.





riangle CAUTION

· While the file is being saved, never eject the floppy disk or turn the power off.



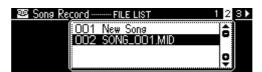
Naming User Songs

Use the same operation as in "Re-recording" (page 98).



Select the file (song) for which you wish to change the name.

Use the **data dial**, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button.



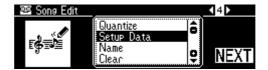


Select "Edit."

Use the **data dial**, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button.





Select "Name."

Use the data dial, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button to display the NAME screen.





Enter the desired name for the file.

Use the keyboard to enter the name (page 21). Up to 12 letters or characters can be used.



Clearing User Song Data

1-4 Use the same operation as in "Re-recording" (page 98).

Select the song file to be cleared.

Use the data dial, the [-/VES] button or the [-/NO] butt

Use the **data dial**, the [+/YES] button or the [-/NO] button.

Press the [NEXT] button to display the MODE selection screen.

Select "Edit."

Use the data dial, the [+/YES] button or the [-/NO] button.

Press the [NEXT] button to display the Song Edit screen.

Select "Clear."

Use the data dial, the [+/YES] button or the [-/NO] button.

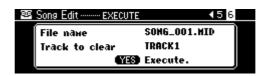
Press the [NEXT] button.



Select the track to be cleared.

Use the **data dial**, the [+/YES] button or the [-/NO] button. To clear the data of an entire song, select "ALL TRACKS."

12 Press the [NEXT] button.



Press the [+/YES] button to execute the Clear operation.

To abort the Clear operation, press the [-/NO] button.



A CAUTION

 While the track is being cleared, never eject the floppy disk or turn the power off.

Multi Pad Recording

In addition to the preset Multi Pad sets, the PSR-740/640 has 16 user-recordable sets that you can use to store your own creations. These original User Multi Pads can be played and used in the same way as the presets. User Multi Pad data can also be saved to and loaded from floppy disk.

Your keyboard performance (using voice R1) is recorded to the User pad. Chord Match data (page 48) can also be recorded.

Multi Pad Recording	. page 10	06
Chord Match		
Naming User Pads		
Clearing User Pad Data		

■ Data that can be recorded to User pads

- Note on/off (key press and release)
- Velocity (strength of key press)
- Pitch bend, pitch bend range
- SUSTAIN button on/off
- Modulation wheel (PSR-740)
- · Footswitch on/off (sustain, sostenuto, soft)
- Foot Volume on/off (expression)
- Voice Change settings
- Mixer settings
- Parameter Edit settings

Up to approximately 2,000 notes for each pad can be recorded to the PSR-740/640 MULTI PADs.

NOTE

- User Pad data is recorded by playing voice R1 from the keyboard. Voice R2, voice L and the auto accompaniment cannot be used.
- Material recorded data is retained in memory even when the STANDBY switch is turned off if an AC adaptor is connected (page 159). It is nevertheless a good idea to save important data to floppy disk so that you can keep them indefinitely and build up your own data library (page 65).

Multi Pad Recording



Press the [RECORD] button to engage the Record mode.







Select "Multi Pad."

Use the **data dial**, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button.





Select a Multi Pad Bank to recoed.

Use the **data dial**, the [+/YES] button or the [-/NO] button.



The following notes and cautions are important points for you to keep in mind as you record your Multi Pad data.

- Using the Metronome function (page 134) can make your recording sessions much more efficient.
- Using Registration Memory (page 62) can make your recording sessions much more efficient, since various settings (such as voices, etc.) can be recalled by a single button press.

 When the record mode is engaged, the Registration Memory Freeze function will be turned on (it cannot be turned off while the record mode is engaged).
- Whenever you record, any previously recorded material in the same track will be erased.
- If the memory becomes full while recording, an alert message will appear on the display and recording will stop.
- Be careful to avoid the data loss that will occur during recording if the power is turned off, or the AC adaptor is unplugged from the outlet.



Press the [NEXT] button.





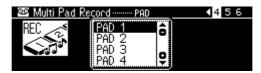


Select "Record."

Use the **data dial**, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button.





Select a Pad number to record.

Use the **data dial**, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button to display the Rehearsal screen.

Voices can be set from this display. After completing the desired settings, press the **[EXIT]** button to return to this display.



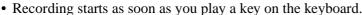


Press the [NEXT] button to display the RECORD ready screen.

The beat indicator dots will flash at the currently set tempo, indicating that the record ready (Synchro Start) mode is engaged.



Start recording.



• Recording can also be started by pressing the [START/STOP] button.



Start Recording. Press the START/STOP button or play a note on the keyboard.

If you are recording a Chord match phrase, use only the CM7 scale tones (i.e. C, D, E, G, A, and B).



C = chord tone C, S = scale tones



Press the [START/STOP] button to stop recording.



Chord Match

1-5 Use t

Use the same operation as in "Multi Pad Recording" above.



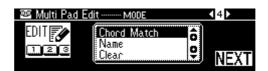
Select "Edit."

Use the data dial, the [+/YES] button or the [-/NO] button.



7

Press the [NEXT] button.



8

Select "Chord Match."

Use the data dial, the [+/YES] button or the [-/NO] button.

9

Press the [NEXT] button.





Turn the Chord Match function on or off.

- Use the data dial, the [+/YES] button or the [-/NO] button.
- To select the desired pad for setting, press the [NEXT]/[BACK] button.



Press the [RECORD] button to exit from the Record mode.

Naming User Pads



Use the same operation as in "Chord Match" above.



Select "Name."

Use the **data dial**, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button to display the NAME screen.



Enter the desired name for the file.

Use the keyboard to enter the name (page 21). Up to 12 letters or characters can be used.





Press the [RECORD] button to exit from the Record mode.

Clearing User Pad Data



Use the same operation as in "Chord Match" above.



Select "Clear."

Use the **data dial**, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button.





Select the Pad number to be cleared.

Use the **data dial**, the [+/YES] button or the [-/NO] button. To clear the data from all four pads, select "ALL PADS."



Press the [NEXT] button.





Execute the Clear operation.

Press the [+/YES] button to execute the Clear operation. To abort the Clear operation, press the [-/NO] button.





Press the [RECORD] button to exit from the Record mode.

Style Recording

The PSR-740/640 lets you record up to three original User styles which can be used for auto accompaniment in the same way as the preset styles. User Style data can also be saved to and loaded from floppy disk (page 65).

You can create a User styles by using the internal style data as a starting point. Select a preset style that is closest to the type of style you want to create, and record the auto accompaniment pattern to one track of the section.

The PSR-740/640 provides two basic ways to record styles:

Style Recording — Rhythm Track	page 112
Style Recording — Bass/Phrase/Pad/Chord Tracks	page 114

The four editing features below allow you to edit already recorded style data.

- Quantize page 116
 This function aligns the timing of the recorded note data to a specified value.

■ User Style Tracks

The tracks which can be recorded to the User styles are organized as shown in the chart below.

	D_:	
		74

Section RHYTHM SUB CHORD1 PHRASE1 COUNT BASS INTRO RHYTHM MAIN CHORD2 PHRASE2 PAD INTRO RHYTHM SUB CHORD1 PHRASE1 BASS RHYTHM MAIN CHORD2 PHRASE2 PAD MAIN A RHYTHM SUB CHORD1 PHRASE1 BASS RHYTHM MAIN CHORD2 PHRASE2 PAD MAIN B RHYTHM SUB CHORD1 PHRASE1 BASS RHYTHM MAIN CHORD2 PHRASE2 PAD MAIN C RHYTHM SUB CHORD1 PHRASE1 BASS RHYTHM MAIN CHORD2 PHRASE2 PAD MAIN D RHYTHM SUB CHORD1 PHRASE1 BASS RHYTHM MAIN CHORD2 PHRASE2 PAD FILL IN A RHYTHM SUB CHORD1 PHRASE1 BASS RHYTHM MAIN CHORD2 PHRASE2 PAD FILL IN B RHYTHM SUB CHORD1 PHRASE1 BASS RHYTHM MAIN CHORD2 PHRASE2 PAD FILL IN C RHYTHM SUB CHORD1 PHRASE1 BASS RHYTHM MAIN CHORD2 PHRASE2 FILL IN D RHYTHM SUB PHRASE1 BASS CHORD1 RHYTHM MAIN CHORD2 PHRASE2 PAD SIMPLE RHYTHM SUB CHORD1 PHRASE1 BASS **ENDING** RHYTHM MAIN CHORD2 PHRASE2 PAD

■ PSP-640

Section	Track			
INTRO	RHYTHM SUB	CHORD1	PHRASE1	BASS
	RHYTHM MAIN	CHORD2	PHRASE2	PAD
MAIN A	RHYTHM SUB	CHORD1	PHRASE1	BASS
	RHYTHM MAIN	CHORD2	PHRASE2	PAD
MAIN B	RHYTHM SUB	CHORD1	PHRASE1	BASS
	RHYTHM MAIN	CHORD2	PHRASE2	PAD
MAIN C	RHYTHM SUB	CHORD1	PHRASE1	BASS
	RHYTHM MAIN	CHORD2	PHRASE2	PAD
MAIN D	RHYTHM SUB	CHORD1	PHRASE1	BASS
	RHYTHM MAIN	CHORD2	PHRASE2	PAD
FILL IN A	RHYTHM SUB	CHORD1	PHRASE1	BASS
	RHYTHM MAIN	CHORD2	PHRASE2	PAD
FILL IN B	RHYTHM SUB	CHORD1	PHRASE1	BASS
	RHYTHM MAIN	CHORD2	PHRASE2	PAD
FILL IN C	RHYTHM SUB	CHORD1	PHRASE1	BASS
	RHYTHM MAIN	CHORD2	PHRASE2	PAD
FILL IN D	RHYTHM SUB	CHORD1	PHRASE1	BASS
	RHYTHM MAIN	CHORD2	PHRASE2	PAD
ENDING	RHYTHM SUB	CHORD1	PHRASE1	BASS
	RHYTHM MAIN	CHORD2	PHRASE2	PAD

On the PSR-740, a total of 96 tracks (12 sections x 8 tracks) can be recorded to a one track; on the PSR-640, a total of 80 tracks (10 sections x 8 tracks) can be recorded to one track.

PHRASE1

PHRASE2

BASS

■ Data that can be recorded to User styles

CHORD1

Note on/off (key press and release)

RHYTHM SUB

RHYTHM MAIN CHORD2

- Pitch bend, pitch bend range
- Mixer settings*
- Tempo

ENDING

- Chorus type and settings
- Modulation wheel (PSR-740)
- Velocity (strength of key press)
- Voice number (drum kit number)*
- Parameter Edit settings*
- Reverb type and settings
- DSP type and settings (PSR-740)
- Foot Volume on/off (expression)

Up to approximately 1,950 notes for a section (a total of about 7,150 notes) can be recorded to the PSR-740/640 style tracks.

Only one event of the item marked with * can be recorded for each track of the sections.



 Material recorded data is retained in memory even when the STANDBY switch is turned off if an AC adaptor is connected (page 159). It is nevertheless a good idea to save important data to floppy disk so that you can keep them indefinitely and build up your own data library (page 65).



 User Style data is recorded by playing voice R1 from the keyboard. Voice R2, voice L and the auto accompaniment cannot be used.

■ About Recording User Styles

In recording a User song, the PSR-740/640 records your keyboard performance as MIDI data. Recording of User styles, however, is done in a different way. Here are some of the aspects in which style recording differs from song recording:

Loop Recording

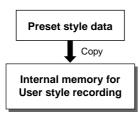
Auto accompaniment repeats the accompaniment patterns of several measures in a "loop," and style recording is also done using loops. For example, if you start recording with a two-measure main section, the two measures are repeatedly recorded. Notes that you record will play back from the next repetition (loop), letting you record while hearing previously recorded material.

Overdub Recording

This method records new material to a track already containing recorded data, without deleting the original data. In style recording, the recorded data is not deleted, except when using functions such as Clear (page 118) and Drum Cancel (page 113).

For example, if you start recording with a two-measure main section, the two measures are repeated many times. Notes that you record will play back from the next repetition, letting you overdub new material to the loop while hearing previously recorded material.

Using Preset Styles



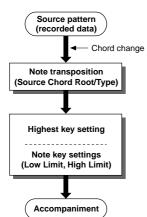
As shown in the chart at left, when you select the internal preset style that is the closest to the type of style you wish to create, the preset style data will be copied to a special memory location for recording.

You create (record) your new, original style by adding or deleting data from the memory location.

All tracks (with the exception of the rhythm track) must be cleared before recording (page 115).

■ Style File (Auto Accompaniment) Format

The Style File Format (SFF) combines all of Yamaha's auto accompaniment know-how into a single unified format.



CTAB page 119

The chart at the left indicates the process by which the accompaniment is played back. (This does not apply to the rhythm track.)

The source pattern in the chart is the original style data. As explained on page 115, in style recording this source pattern is recorded.

As shown in the chart at left, the actual output of the accompaniment is determined by various parameter settings and chord changes (playing chords in the auto accompaniment section of the keyboard) made to this source pattern.

CTAB is a group of parameters which determines how the pitch of the source pattern is converted when you play chords in the auto accompaniment section of the keyboard. The User style function gives you exceptionally detailed and comprehensive control by allowing you to record the source pattern to each track and set the CTAB parameters for each track. The PSR-740/640 lets you set the following four CTAB parameters:

- Source Chord Root
- Source Chord Type
- Highest Key
- Note Range (Low Limit, High Limit)

For details about the CTAB parameters, see page 119.



The following notes and cautions are important points for you to keep in mind as you record your User styles.

- Make sure to clear at least one of the three User styles before recording a new User style. Recording a new User style cannot be started when all three User styles have recorded data.
- Be careful to avoid the data loss that will occur during recording if the power is turned off, or the AC adaptor is unplugged from the outlet.
- Using Registration Memory (page 62) can make your recording sessions much more efficient, since various settings (such as voices, etc.) can be recalled by a single button press.

 When the record mode is engaged, the Registration Memory Freeze function will be turned on (it cannot be turned off while the record mode is engaged).
- Using the Metronome function (page 134) can make your recording sessions much more efficient.
- In the Record Ready mode, you can exchange or edit the voice data in the recorded tracks using Mixer on page 90 or Parameter Edit on page 91.
- If the memory becomes full while recording, an alert message will appear on the display and recording will stop.
- Since recording is done in measure units, you should first select a style that has the same number of measures as the section you intend to record.
- If none of the preset styles is appropriate, select one that has the same time signature and number of measures as the one you want to create, then use the Clear function (page 118) to clear all preset data before entering your own.



 "CTAB" is the abbreviation of "Channel table".

Style Recording — Rhythm Track

With this operation you can create your own original rhythm patterns by editing existing rhythm track (percussion) data from a preset style.



Press the [RECORD] button to engage the Record mode.







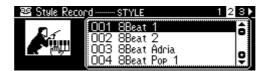
Select "Style."

Use the data dial, the [+/YES] button or the [-/NO] button.



3

Press the [NEXT] button.





Select a style to begin with.

Use the **data dial**, the [+/YES] button, the [-/NO] button or the number buttons [1]-[0].



Press the [NEXT] button.





Select "Record."

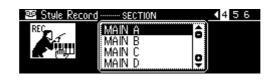
Use the **data dial**, the [+/YES] button or the [-/NO] button.

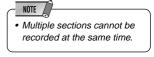


Press the [NEXT] button to display the SECTION selection screen.



Select the Section to be recorded.







Press the [NEXT] button to display the TRACK selection screen.



Select a Rhythm track to be recorded.

Select "RHYTHM MAIN" or "RHYTHM SUB" with the data dial, the [+YES] button or the [-/NO] button.





recorded at a time.



Press the [NEXT] button to display the RECORD ready screen.





Select one of the Drum Kits.

Select the desired kit by pressing the [VOICE R1] button (page 26). To return to the original display, press the [EXIT] button (page 17).



Start recording.

You can start recording with one of the following ways:

- Press the [START/STOP] button. The following will start to play back: the style selected in step #4, the section selected in step #8 and the rhythm track selected in step #10.
- Press the [SYNC START] button to enable synchronized standby (page 25), then play a key on the keyboard. Playback starts as described in the first method above.



NOTE

 For recording the RHYTHM tracks, the instrument symbols printed on the front edge of the panel show you the instrument assignments to each kev. See "Kevboard Percussion" on page 31 for playing each drum/ percussion sound.



Since the rhythm pattern plays back repeatedly, you can record by overdubbing — listening to the pattern and playing the desired keys. Look at the icons printed under the keys indicating the percussion sounds that are assigned to each key.

You can also delete certain percussion sounds in the following way:

1) Press the [NEXT] button.



- 2) Press the key on the keyboard corresponding to the instrument you want to cancel.
- 3) To return to the original display, press the [BACK] button.



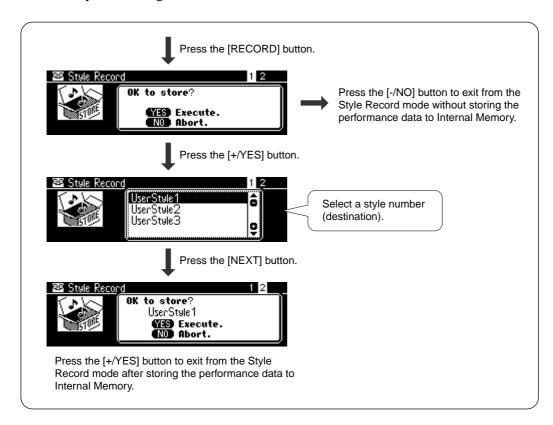
Press the [START/STOP] button to stop recording.



You should save the recorded data before leaving the recording mode. (Refer to page 114 for details.)

Exiting from the Style Record mode

To leave the style recording mode, follow the instructions in the chart below.



Style Recording — Bass/Phrase/Pad/Chord Tracks

This section explains how to record all tracks (other than the rhythm), using the preset styles.

Unlike recording the rhythm track, in this method you have to clear the track data of the original style before recording.



Use the same operation as in "Style Recording — Rhythm Track" above.



Select a Track to be recorded.

Use the **data dial**, the [+/**YES**] button or the [-/**NO**] button. Select from the following: "BASS," "CHORD1," "CHORD2," "PAD," "PHRASE1" and "PHRASE2."



Only one track can be recorded at a time.



Press the [NEXT] button.





Clear the data of the selected track.

Press the [+/YES] button to clear the data. To abort the Clear operation, press the [-/NO] button.





Select a voice for the track to be recorded.

Select the desired voice by pressing the [VOICE R1] button (page 26). To return to the previous display, press the **[EXIT]** button.



Start recording.

You can start recording with one of the following ways:

- Press the [START/STOP] button.
- Press the [SYNC START] button to enable synchronized standby (page 25), then play a key on the keyboard.



The recording repeats indefinitely (until stopped) in a loop.

Notes that you record will play back from the next repetition, letting you record while hearing previously recorded material.

Observe the following rules when recording the MAIN and FILL sections:

- Use only the CM7 scale tones when recording the BASS and PHRASE tracks (i.e. C, D, E, G, A, and B).
- Use only the chord tones when recording the CHORD and PAD tracks (i.e. C, E, G, and B).



C = chord tone C, S = scale tones

Any appropriate chord or chord progression can be used for the INTRO and ENDING sections.

The basic chord for the accompaniment is called the source chord. The default source chord is set as CM7, but you can change it to whatever chord is easy for you to play. For details, see "Style File (Auto Accompaniment) Format" (page 111).



Press the [START/STOP] button to stop recording.



Press the [RECORD] button to exit from the Record mode.

For information on leaving the recording mode, see page 114.

Quantize

Quantize lets you "clean up" or "tighten" the timing of a previously recorded track. For example, the following musical passage has been written with exact quarter-note and eighth-note values.



Even though you think you may have recorded the passage accurately, your actual performance may be slightly ahead of or behind the beat (or both!). Quantize allows you to align all the notes in a track so that the timing is absolutely accurate to the specified note value.



Use the same operation as in "Style Recording — Rhythm Track" (page 112).





Select "Edit."

Use the **data dial**, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button.



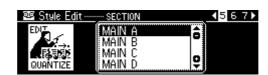


Select "Quantize."

Use the data dial, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button.





Select the section to be quantized.

Use the **data dial**, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button.



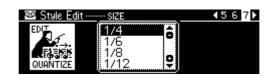


Select the track to be quantized.

Use the data dial, the [+/YES] button or the [-/NO] button.



13 Press the [NEXT] button.





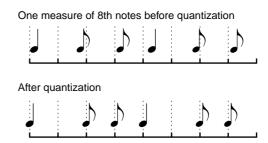
Select the Quantize size (resolution).

Use the data dial, the [-/NO] button or the [+/YES] button.

Set the Quantize value to correspond to the smallest notes in the track you are working with. For example, if the data was recorded with quarter notes and eighth notes, use 1/8 for the quantize value. If the quantize function is applied in this case with the value set to 1/4, the eighth notes would be moved on top of the quarter notes.

Quantize Size

Size	Note
1/4	Quarter note
1/6	Quarter note triplet
1/8	Eighth note
1/12	Eighth note triplet
1/16	Sixteenth note
1/24	Sixteenth note triplet
1/32	Thirty-second note





Press the [NEXT] button.



• You can audition the quantized pattern in this step, allowing you to hear the results of the operation before actually changing the data. To audition the pattern, press the [START/STOP] button.



h Execute the Quantize operation.

Press the [+/YES] button to execute the Quantize operation. To abort the Quantize operation, press the [-/NO] button.





Press the [RECORD] button to exit from the Record mode.

For information on leaving the recording mode, see page 114.

Naming User Styles

1-7

Use the same operation as in "Quantize" (page 116).





Select "Name."

Use the data dial, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button to display the NAME screen.





Enter the desired name for the style.

Use the keyboard to enter the name (page 21). Up to sixteen letters or characters can be used.



Press the [RECORD] button to exit from the Record mode.

For information on leaving the recording mode, see page 114.

Clearing User Style Data

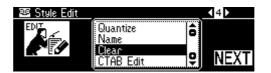


Use the same operation as in "Quantize" (page 116).



Select "Clear."

Use the **data dial**, the [+/YES] button or the [-/NO] button.





Press the [NEXT] button to display the SECTION selection screen.



Select a Section to be cleared.

Use the **data dial**, the [+/YES] button or the [-/NO] button.

When "All Sect" is selected as the section to be cleared, all style data (which includes all sections and all tracks) will be deleted. In this case, go to step #13, skipping over steps #11 and #12.



Press the [NEXT] button to display the TRACK selection screen.



Select a Track to be cleared.

Use the **data dial**, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button to display the Clear operation

screen.





Execute the Clear operation.

Press the [+/YES] button to execute the Clear operation. To abort the Clear operation, press the [-/NO] button.





Press the [RECORD] button to exit from the Record mode.

For information on leaving the recording mode, see page 114.

CTAB Parameters

About the CTAB parameters

The CTAB parameters determine how the pitch of the recorded style changes in response to chords played in the auto accompaniment section of the keyboard (when using auto accompaniment).

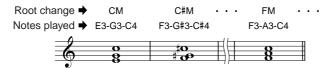
● NOTE LIMITNote range (Low Limit, High Limit) setteings

Set the note range (low and high limits) for the voices recorded on user style tracks. By setting the note range, you can prevent unrealistic notes (such as high notes from a bass or low notes from a piccolo) from being produced and have them shifted to an octave within the note range.



 The pitch difference between the Low Limit and High Limit settings cannot be less than one octave.

Example) When low limit is "C3" and high limit is "D4."



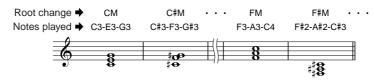
HIGH KEY Highest Key setting

Set the highest key (upper limit of the octaves) of the note transposing for the Source Chord Root setting. The notes designated higher than the highest key will actually be played back in the octave just below the highest key.



 The High Key setting can only be made for the BASS, PHRASE 1, and PHRASE 2 tracks. (It cannot be set for any of the other tracks.

Example) When highest key is "F".



SOURCE CHORD....... Source Pattern Chord Root/Type setting

Set the key in which the source pattern will be played when the user style is created. The default setting is CM7. The source chord root is "C" and the source chord type is "M7." See page 121 for the available chord types, chord notes and scale notes.

Setting the CTAB parameters



Use the same operation as in "Quantize" (page 116).



Select "CTAB Edit."

Use the **data dial**, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button to display the SECTION selection screen.

Select the desired section for setting the CTAB parameters.

Use the data dial, the [+/YES] button or the [-/NO] button.



 $m{12}$ Select the desired track for setting the CTAB parameters.

Use the $data\ dial$, the [+/YES] button or the [-/NO] button.

 $m{13}$ Press the [NEXT] button.



 $oldsymbol{14}$ Select the desired CTAB parameter.

Use the **data dial**, the [+/**YES**] button or the [-/**NO**] button. Refer to page 119 for more information on the CTAB parameters.

Press the [NEXT] button to display the CTAB parameter setting screen.

Set the CTAB parameter value.

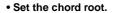
• For NOTE LIMIT (sounding range), selected in step #14 above: Set by using the **data dial**, the [+/YES] button or the [-/NO] button.

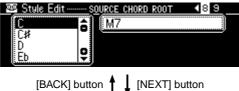


• For HIGH KEY (upper limit of the octaves), selected in step #14 above: Set by using **data dial**, the [+/YES] button or the [-/NO] button.



• For SOURCE CHORD (source chord/type), selected in step #14 above: Set by using the **data dial**, the [+/YES] button or the [-/NO] button.





Set the chord type.





Repeat steps #14-#16 as needed.

Press the [BACK] button to return back to step #14.



Press the [RECORD] button to exit from the Record mode.

For information on leaving the recording mode, see page 114.

Recording by source chord type

When you change the chord of the source pattern from the default CM7 to others, the chord notes and scale notes will change depending on the currently selected chord type. See page 115 for information on chord notes and scale notes.

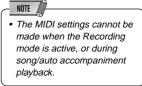
[ex.] Source Chord Root of "C"



MIDI Functions

In the rear panel of your PSR-740/640, there are MIDI terminals (MIDI IN, MIDI OUT), a TO HOST terminal, and a HOST SELECT switch. By using the MIDI functions you can expand your musical possibilities. This section explains what MIDI is, and what it can do, as well as how you can use MIDI on your PSR-740/640.

If you don't know what MIDI is, make sure to read these sections: What's MIDI? What You Can Do With MIDI MIDI Data Compatibility	page 12	24
 If you want to use your PSR-740/640 with a computer, read this section Connecting to a Personal Computer 		26
The PSR-740/640 lets you make the following MIDI-related settings: MIDI Template MIDI Transmit Setting MIDI Receive Setting Local Control Clock Initial Data Send	page 13 page 13 page 13 page 13	30 31 32 32



What's MIDI?

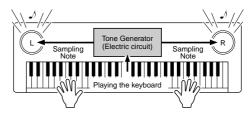
No doubt you have heard the terms "acoustic instrument" and "digital instrument." In the world today, these are the two main categories of instruments. Let's consider an acoustic piano and a classical guitar as representative acoustic instruments. They are easy to understand. With the piano, you strike a key, and a hammer inside hits some strings and plays a note. With the guitar, you directly pluck a string and the note sounds. But how does a digital instrument go about playing a note?

Acoustic guitar note production



Pluck a string and the body resonates the sound.

Digital instrument note production



Based on playing information from the keyboard, a sampling note stored in the tone generator is played through the speakers.

As shown in the illustration above, in an electronic instrument the sampling note (previously recorded note) stored in the tone generator section (electronic circuit) is played based on information received from the keyboard. So then what is the information from the keyboard that becomes the basis for note production?

For example, let's say you play a "C" quarter note using the grand piano sound on the PSR-740/640 keyboard. Unlike an acoustic instrument that puts out a resonated note, the electronic instrument puts out information from the keyboard such as "with what voice," "with which key," "about how strong," "when was it pressed" and "when was it released." Then each piece of information is changed into a number value and sent to the tone generator. Using these numbers as a basis, the tone generator plays the stored sampling note.

•	Example	of	Keyboard	Information
---	---------	----	----------	-------------

Voice number (with what voice)	01 (grand piano)
Note number (with which key)	60 (C3)
Note on (when was it pressed) and note off (when was it released)	Timing expressed numerically (quarter note)
Velocity (about how strong)	120 (strong)

MIDI is an acronym that stands for Musical Instrument Digital Interface, which allows electronic musical instruments to communicate with each other, by sending and receiving compatible Note, Control Change, Program Change and various other types of MIDI data, or messages.

The PSR-740/640 can control a MIDI device by transmitting note related data and various types of controller data. The PSR-740/640 can be controlled by the incoming MIDI messages which automatically determine tone generator mode, select MIDI channels, voices and effects, change parameter values and of course play the voices specified for the various parts.

MIDI messages can be divided into two groups: Channel messages and System messages. Below is an explanation of the various types of MIDI messages which the PSR-740/640 can receive/transmit.

Channel Messages

The PSR-740/640 is an electronic instrument that can handle 16 channels. This is usually expressed as "it can play 16 instruments at the same time." Channel messages transmit information such as Note ON/OFF, Program Change, for each of the 16 channels.

Message Name	PSR-740/640 Operation/Panel Setting
Note ON/OFF	Messages which are generated when the keyboard is played. Each message includes a specific note number which corresponds to the key which is pressed, plus a velocity value
	based on how hard the key is stuck.
Program Change	Voice setting (control change bank select MSB/LSB setting)
Control Change	Mixer, Parameter Edit setting (volume, pan pot, etc.)

System Messages

This is data that is used in common by the entire MIDI system. System messages include messages like Exclusive Messages that transmit data unique to each instrument manufacturer and Realtime Messages that control the MIDI device.

Message Name	PSR-740/640 Operation/Panel Setting
Exclusive Message	Reverb/chorus/DSP settings, etc.
Realtime Messages	Clock setting
	Start/stop operation

The messages transmitted/received by the PSR-740/640 are shown in the MIDI Data Format and MIDI Implementation Chart on pages 163 and 178.

· The performance data of all songs, styles and Multi Pads is MIDI data.

MIDI and TO HOST Terminals

In order to exchange MIDI data between multiple devices, each device must be connected by a cable.

There are two ways to connect: from the MIDI terminals of the PSR-740/640 to the MIDI terminals of an external device using a MIDI cable, or from the TO HOST port of the PSR-740/640 to the serial port of a personal computer using a special cable. If you connect from the PSR-740/640 TO HOST terminal to a personal computer, the PSR-740/640 will be used as a MIDI interface device, meaning that a specialized MIDI interface device is not necessary.

In the rear panel of the PSR-740/640, there are two kinds of terminals, the MIDI terminals and the TO HOST terminal.





- MIDI IN Receives MIDI data from another MIDI device.
- MIDI OUT Transmits the PSR-740/640's keyboard information as MIDI data to another MIDI device.
- TO HOST Transmits and receives MIDI data to and from a personal computer.

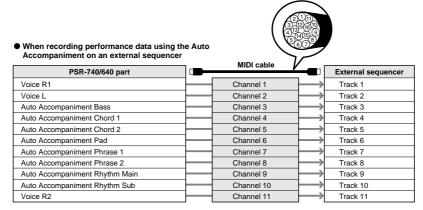


- When using the TO HOST terminal to connect to a personal computer using Windows, a Yamaha MIDI driver must be installed in the personal computer. The included disk contains the Yamaha MIDI driver.
- · Special MIDI cables (sold separately) must be used for connecting to MIDI devices. They can be bought at music stores, etc.
- · Never use MIDI cables longer than about 15 meters. Cables longer than this can pick up noise which can cause data errors.

MIDI Functions

The PSR-740/640 is an electronic musical instrument which is capable of transmitting and receiving over sixteen channels. Imagine that there are sixteen separate pipes in the connected MIDI cable. When transmitting MIDI data from the PSR-740/640 to an external device, MIDI data is sent through the assigned pipe (or MIDI channel) and transmitted to the external device.

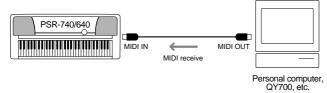
For example, several tracks can be transmitted simultaneously, including the auto accompaniment data (as shown below).



As you can see, it is essential to determine which data is to be sent over which MIDI channel when transmitting MIDI data (page 130).

What You Can Do With MIDI

• Use the PSR-740/640 as a multi tone generator (playing 16 channels at one time).



When using a personal computer, special software (sequencer software) is needed.

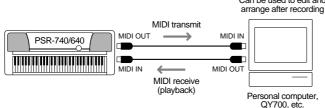
Set: Receive mode for all channels set "XG/GM." MIDI receive settings (page 131).

 Play music from another keyboard (no tone generator) using the PSR-740/640 XG tone generator.



Set: MIDI receive settings (page 131).

• Record performance data (1-16 channels) using the PSR-740/640 Auto Accompaniment features on a external sequencer (such as a personal computer). After recording, edit the data with the sequencer, then play it again on the PSR-740/640 (playback).
Can be used to edit and



Set: MIDI transmit settings (page 130). Initial Data send (page 133).

MIDI Data Compatibility

This section covers basic information on data compatibility: whether or not other MIDI devices can playback the data recorded by PSR-740/640, and whether or not the PSR-740/640 can playback commercially available song data or song data created for other instruments or on a computer.

Depending on the MIDI device or data characteristics, you may be able to play back the data without any problem, or you may have to perform some special operations before the data can be played back. If you run into problems playing back data, please refer to the information below.

Sequence format

The system which records song data is called "sequence format."

Playback is only possible when the sequence format of the disk matches that of the MIDI device.

SMF (Standard MIDI File)

This is the most common sequence format.

Standard MIDI Files are generally available as one of two types: Format 0 or Format 1. Many MIDI devices are compatible with Format 0, and most commercially available software is recorded as Format 0.

- The PSR-740/640 is compatible with both Format 0 and Format 1.
- Song data recorded on the PSR-740/640 is automatically recorded as SMF Format 0.

ESEQ

This sequence format is compatible with many of Yamaha's MIDI devices, including the Clavinova series instruments. This is a common format used with various Yamaha software.

• The PSR-740/640 is compatible with ESEQ.

XF

The Yamaha XF format enhances the SMF (Standard MIDI File) strandard with greater functionality and open-ended expandability for the future.

• The 740/640 is capable of displaying lyrics when an XF file containing lyric data is played.

Style File

The Style File Format — SFF — is Yamaha's original style file format which uses a unique conversion system to provide high-quality automatic accompaniment based on a wide range of chord types.

 The PSR-740/640 uses the SFF internally, reads optional SFF style disks, and creates SFF styles using the Style recording feature.

Voice allocation format

With MIDI, voices are assigned to specific numbers, called "program numbers." The numbering standard (order of voice allocation) is referred to as the "voice allocation format."

Voices may not play back as expected unless the voice allocation format of the song data matches that of the compatible MIDI device used for playback.

● GM System Level 1

This is one of the most common voice allocation formats.

Many MIDI devices are compatible with GM System Level 1, as is most commercially available software.

• The PSR-740/640 is compatible with GM System Level 1.

XG

XG is a major enhancement of the GM System Level 1 format, and was developed by Yamaha specifically to provide more voices and variations, as well as greater expressive control over voices and effects, and to ensure compatibility of data well into the future.

• The PSR-740/640 is compatible with XG.

DOC

This voice allocation format is compaible with many of Yamaha's MIDI devices, including the Clavinova series instruments.

This is also a common format used with various Yamaha software.

The PSR-740/640 is compatible with DOC.

NOTE

 Even if the devices and data used satisfy all the conditions above, the data may still not be completely compatible, depending on the specifications of the devices and particular data recording methods.

Connecting to a Personal Computer

You can enjoy using personal computer music software when you connect your PSR-740/640's TO HOST terminal or MIDI terminals to a personal computer.

There are two ways to connect.

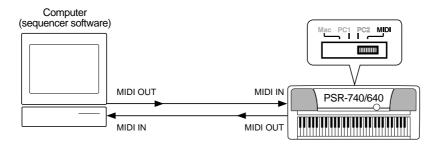
- Connect using the PSR-740/640 MIDI terminals
- Connect using the TO HOST terminal

Connect using the PSR-740/640 MIDI terminals

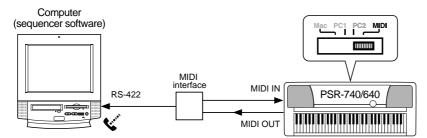
Using a MIDI interface device installed in the personal computer, connect the MIDI terminals of the personal computer and the PSR-740/640.

For the connection cable, use a special MIDI cable.

• When the computer has a MIDI interface installed, connect the MIDI OUT terminal of the personal computer to the MIDI IN terminal of the PSR-740/640. Set the HOST SELECT switch to "MIDI."



• When using a MIDI interface with a Macintosh series computer, connect the RS-422 terminal of the computer (modem or printer terminal) to the MIDI interface, then connect the MIDI OUT terminal on the MIDI interface to the MIDI IN terminal of the PSR-740/640, as shown in the diagram below. Set the HOST SELECT switch on the PSR-740/640 to "MIDI."



- When the HOST SELECT switch is set in the "MIDI" position, input and output in the TO HOST switch is ignored.
- When using a Macintosh series computer, set the MIDI interface clock setting in the application software to match the setting of the MIDI interface you are using. For details, carefully read the owner's manual for the software you are using.

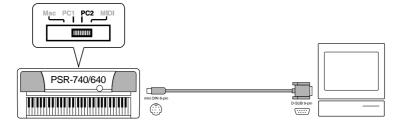
Connect using the TO HOST terminal

Connect the serial port of the personal computer (RS-232C terminal or RS-422 terminal) to the TO HOST terminal of the PSR-740/640.

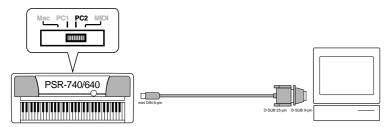
For the connection cable, use the cable below (sold separately) that matches the personal computer type.

■ IBM-PC/AT Series

Connect the RS-232C terminal on the computer to the TO HOST terminal on the PSR-740/640 using a serial cable (D-SUB 9P \rightarrow MINI DIN 8P cross cable). Set the PSR-740/640 HOST SELECT switch in the "PC-2" position.

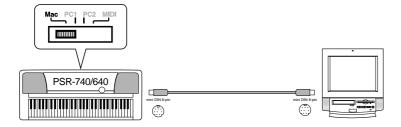


When using a D-SUB 25P \rightarrow MINI DIN 8P cross cable, connect using a D-SUB 9P plug adaptor on the computer side of the cable.



Macintosh Series

Connect the RS-422 terminal (modem or printer terminal) on the computer to the TO HOST terminal on the PSR-740/640 using a serial cable (system peripheral cable, 8 bit). Set the PSR-740/640 HOST SELECT switch in the "Mac" position.



Set the MIDI interface clock in the sequencer software you are using to 1 MHz. For details, carefully read the owner's manual for the software you are using.

For details about the necessary MIDI settings for computer and sequence software you are using, refer to the relevant owner's manuals.

- Macintosh is a registered trademark of Apple Computer, Inc.
- IBM PC/AT is a trademark of International Business Machines Corp.
- Other company names and product names, etc. in this manual are registered trademarks or trademarks of those companies.

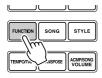
MIDI Template

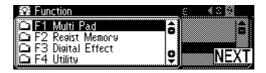
The PSR-740/640 is capable of transmitting and receiving MIDI data over sixteen independent channels. For proper MIDI operation, it is necessary to determine which data is set to which channel.

The MIDI Template function allows you to instantly configure all appropriate transmit/receive settings with a single button press.



Press the [FUNCTION] button.

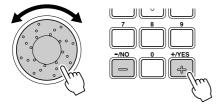


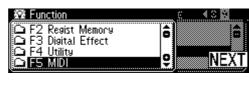




Select "MIDI."

Use the **data dial**, the [+/YES] button or the [-/NO] button.

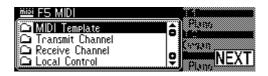






Press the [NEXT] button to display the MIDI screen.

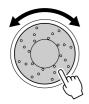


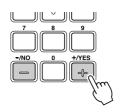


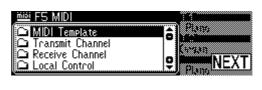


Select "MIDI Template."

Use the **data dial**, the [+/YES] button or the [-/NO] button.









Press the [NEXT] button to display the MIDI Template screen.

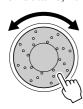


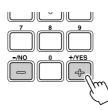


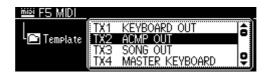


Select a MIDI Template.

Use the **data dial**, the [+/YES] button or the [-/NO] button. For details, refer to the MIDI Template List (page 129).



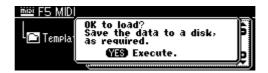






Press the [NEXT] button.

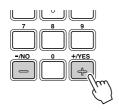






Load the selected MIDI Template.

Press the [+/YES] button to actually load the selected MIDI template settings. To abort the operation, press the [-/NO] button.





	MIDI	Tomo	lata	Lict
•	וטוואו	Temp	ıate	LIST

MIDI Template List	
TX1 KEYBOARD OUT	The transmit channels are set as follows: ch. 1 : Right1
	an external sequencer.
TX2 ACMP OUT	The transmit channels 9-16 are set with the Accompaniment tracks. chs. 9-10: Rhythms ch. 14: Pad ch. 11: Bass chs. 15-16: Phrases chs. 12-13: Chords When outputting the style data. Used to play the PSR-740/640 auto accompaniment data with an external tone generator and to record the PSR-740/640 auto accompaniment data to an external
TX3 SONG OUT	sequencer. All transmit channels are set with the Song tracks 1-16. When outputting the song data. Used to play the PSR-740/640 song data with an external tone generator and to record your entire performance on the PSR-740/640 to an external sequencer.
TX4 MASTER KEYBOARD	When using the PSR-740/640 as a master keyboard; in other words, using it strictly as a controller for outputting MIDI data, without using the internal sounds.
RX1 XG MODULE	All receive channels are set to "XG/GM." When using the PSR-740/640 as a multi-timbral XG tone generator.
RX2 MIDI ACCORDION	The receive channels are set as follows: ch. 1: Remote
RX3 MIDI PEDAL	All receive channels are set to "ROOT." When playing the PSR-740/640 using a connected (optional) MIDI pedal. The connected MIDI pedal detects chords and basses in the auto accompaniment section, allowing you to play on-bass chords.

MIDI Transmit Setting

The PSR-740/640 can simultaneously transmit data on all 16 MIDI channels. The Transmit Channel and Transmit Track functions determine what PSR-740/640 data is transmitted via which MIDI channels.



Press the [FUNCTION] button.



Select "MIDI."

Use the **data dial**, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button to display the MIDI screen.



Select "Transmit Channel."

Use the data dial, the [+/YES] button or the [-/NO] button.

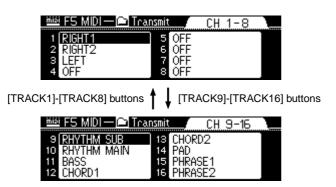


Press the [NEXT] button to display the MIDI Transmit screen.



Set a MIDI Transmit Channel and Transmit Track.

• Press one of the [TRACK1]-[TRACK16] buttons to select a MIDI channel.



• Select a track with the **data dial**, the [+/YES] button or the [-/NO] button.

OFF	Nothing is transmitted.
RIGHT1	Right-hand keyboard playing* (VOICE R1)**
RIGHT2	Right-hand keyboard playing* (VOICE R2)**
LEFT	Left-hand keyboard playing* (VOICE L)**
UPPER	Right-hand keyboard playing*
	(Outputs MIDI note data normally as explained on page 29.)
LOWER	Left-hand keyboard playing*
	(Outputs MIDI note data normally as explained on page 29.)
RHYTHM SUB	Auto Accompaniment RHYTHM SUB track
RHYTHM MAIN	Auto Accompaniment RHYTHM MAIN track
BASS	Auto Accompaniment BASS track
CHORD1	Auto Accompaniment CHORD1 track
CHORD2	Auto Accompaniment CHORD2 track
PAD	Auto Accompaniment PAD track
PHRASE1	Auto Accompaniment PHRASE1 track
PHRASE2	Auto Accompaniment PHRASE2 track
TRACK1-16	Song track 1-16

- * "Right-hand keyboard playing" and "Left-hand keyboard playing" indicate the performance played on the right side and left side of the keyboard from the split point, respectively.
- ** Outputs MIDI note data according to the respective octave settings for the voices R1, R2 and L.



- When a track is assigned to more than one MIDI channel, the data from that track is transmitted via the lowestnumbered channel.
- MIDI transmit track settings will be retained even after turning the power off. See page 159 for details.
- The initial default channel/ track settings are:
 - ch. 1 = RIGHT1
 - ch. 2 = RIGHT2 • ch. 3 = LEFT
 - ch. 4 = OFF
 - ch. 5 = OFF • ch. 6 = OFF
 - ch. 7 = OFF
 - ch. 8 = OFF
 - ch. 9 = RHYTHM SUB
 - ch. 10 = RHYTHM MAIN
 - ch. 11 = BASS
 - ch. 12 = CHORD1
 - ch. 13 = CHORD2
 - ch. 14 = PAD
 - ch. 15 = PHRASE1
 - ch. 16 = PHRASE2
- To avoid MIDI loops which can cause operational errors, check the PSR-740/640 Local Control setting (page 132) and the MIDI THRU settings of any external MIDI devices.

MIDI Receive Setting

The PSR-740/640 can simultaneously receive data on all 16 MIDI channels, allowing it to function as a 16-channel multi-timbral tone generator. The Receive Channel and Receive Mode functions determine how each channel will respond to received MIDI data.



Press the [FUNCTION] button.



Select "MIDI."

Use the **data dial**, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button to display the MIDI screen.



Select "Receive Channel."

Use the data dial, the [+/YES] button or the [-/NO] button.

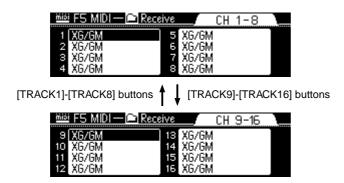


Press the [NEXT] button to display the MIDI Receive screen.



Set a MIDI Receive Channel and Receive mode.

● Press one of the [TRACK1]-[TRACK16] buttons to select a MIDI channel.



● Select a receive mode with the data dial, the [+/YES] button or the [-/NO] button.

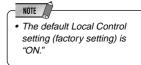
OFF	No MIDI data is received on channels set to "Off."
XG/GM	Received MIDI data is sent directly to the PSR-740/640 tone generator. If all channels are set to "XG/GM," the PSR-740/640 functions as a 16-channel multi-timbral tone generator.
KEYBOARD	Received MIDI data is handled in the same way as data generated by the PSR-740/640's own keyboard. In other words, a remote keyboard could be used to control the PSR-740/640 AUTO ACCOMPANIMENT functions, etc.
CHORD	The note on/off messages received at the channel(s) set to "CHORD" are recognized as the fingerings in the accompaniment section. The chords to be detected depend on the fingering mode on the PSR-740/640. The chords will be detected regardless of the accompaniment on/off and split point settings on the PSR-740/640 panel.
ROOT	The note on/off messages received at the channel(s) set to "ROOT" are recognized as the bass notes in the accompaniment section. The bass notes will be detected regardless of the accompaniment on/off and split point settings on the PSR-740/640 panel.
V.HARMONY (PSR-740)	Received notes are used as the added Vocal Harmony Vocoder type notes.



- The initial default setting (factory setting) for all channels is "XG/GM."
- MIDI receive mode settings will be retained even after turning the power off. See page 159 for details.

Local Control

"Local Control" refers to the fact that, normally, the PSR-740/640 keyboard controls the internal tone generator, allowing the internal voices to be played directly from the keyboard. This situation is "Local Control on" since the internal tone generator is controlled locally by its own keyboard. Local control can be turned off, however, so that the keyboard does not play the internal voices, but the appropriate MIDI information is still transmitted via the MIDI OUT connector when notes are played on the keyboard. At the same time, the internal tone generator can respond to MIDI information received on channels set to the "XG/GM" mode via the MIDI IN connector. This means that while an external MIDI sequencer, for example, plays the PSR-740/640 internal voices, an external tone generator can be played from the PSR-740/640 keyboard.





Press the [FUNCTION] button.



Select "MIDI."

Use the data dial, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button to display the MIDI screen.



Select "Local Control."

Use the **data dial**, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button to display the Local Control screen.



Turn the Local Control on or off.

Use the **data dial**, the [+/YES] button or the [-/NO] button.



Clock

Reception of an external MIDI clock signal can be enabled or disabled as required. When disabled ("INTERNAL"), all of the time-based functions (Auto Accompaniment, SONG recording and playback, etc.) are controlled by its own internal clock. When MIDI clock reception is enabled ("EXTERNAL"), however, all timing is controlled by an external MIDI clock signal received via the MIDI IN terminal (in this case the PSR-740/640 TEMPO setting has no effect). The default setting is "INTERNAL."



Press the [FUNCTION] button.



Select "MIDI."

Use the data dial, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button to display the MIDI screen.



Select "Clock."

Use the **data dial**, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button to display the CLOCK screen.



Set the Clock to "INTERNAL" or "EXTERNAL."

Use the data dial, the [+/YES] button or the [-/NO] button.





- The default Clock setting (factory setting) is "INTERNAL."
- When the Clock setting is "EXTERNAL," AUTO ACCOMPANIMENT playback cannot be started via the panel [START/STOP] button, or started via the synchro start function. Also, the MULTI PAD playback cannot be initiated by pressing the MULT PADs.

 Welling is

 MULT PADs.
- When the Clock setting is "EXTERNAL," "EC" will appear on the TEMPO display, and tempo cannot be changed with the panel button.

Initial Setup Send

Transmits all current panel settings to a second PSR-740/640 or a MIDI data storage device.

If you want to have the song play back with the panel settings used for recording, execute the Initial Data Send function before recording the performance on the PSR-740/640 to an external sequencer.



Press the [FUNCTION] button.



Select "MIDI."

Use the data dial, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button to display the MIDI screen.



Select "Initial Setup Send."

Use the **data dial**, the [+/YES] button or the [-/NO] button.



Press the [NEXT] button to display the Initial Setup Send screen.



Execute the Initial Setup Send operation.

Press the [+/YES] button to execute the INITIAL SEND operation. To abort the operation, press the [-/NO] button.

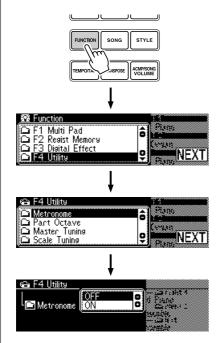


Other Functions (Utility)

This section of the manual covers some important functions of the PSR-740/640 that have not been explained in previous sections. These are all combined in the Utility menu of the "Function" section.



Each of the above functions can be set as described below.



1 Press the [FUNCTION] button.

- 2 Select "Utility."
- $oldsymbol{3}$ Press the [NEXT] button.
- 4 Select a function.
- **5** Press the [NEXT] button.
- **6** Set the value.

The operations for each function corresponding to step #6 are covered in the following explanations.

Metronome

When this is set to "ON," the metronome sounds at the set tempo for the following conditions.

- Accompaniment playback
- Song playback
- · Synchro start waiting
- Record standby
- Recording



• Turn Metronome ON or OFF with the **data dial**, the [+/**YES**] button or the [-/**NO**] button.



 The Metronome cannot be turned on when free-tempo song data is selected in the Song mode.

The tempo setting of some commercially available songs is fixed. These songs are called "free-tempo software." When playing back freetempo song data on the PSR-740/640, the Tempo display shows "- - -" and the beat display does not flash. Also, the measure number in the display does not match the actual measure number of playback, and only gives you an indication of how much of the song has played back.

Part Octave

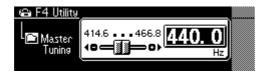
This determines the relative octave settings for the keyboard-played voices R1, R2 and



- Select the part (R1, R2, L) by pressing one of the PART ON/OFF buttons (VOICE R1, VOICE R2, VOICE L).
- Set the value with the **data dial**, the [+/YES] button or the [-/NO] button.

Master Tuning

The Master Tuning function sets the overall pitch of the PSR-740/640.

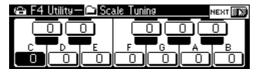


• Set the value with the data dial, the [+/YES] button or the [-/NO] button.

Scale Tuning

Scale tuning allows each individual note of the octave to be tuned over range from -64 to +63 cents in 1-cent increments (1 cent = 1/100th of a semitone). This makes it possible to produce subtle tuning variations, or tune the instrument to totally different scales (e.g. classic or Arabic scales).

The Accompaniment and Multi Pad sounds are affected by Scale Tuning.



- Select the note to be tuned by pressing the [NEXT]/[BACK] button.
- Tune the selected note by using the data dial, the [+/YES] button, the

[-/NO] button or the number buttons [1]-[0].

Split Point

The point on the keyboard that separates the auto accompaniment section and the righthand section of the keyboard is called the "split point."

- When the auto accompaniment is on, keys played to the left of the split point are used for controlling the auto accompaniment (page 35).
- When the auto accompaniment is off, keys played to the left of the split point are used for playing voice L (page 28).



• Set the value with the **data dial**, the [+/YES] button or the [-/NO] button.



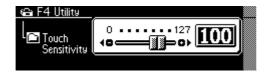
- · The scale tuning settings are common to each octave on the keyboard.
- · Minus values can be entered by using the number buttons while holding the [-/NO]



The default setting (factory setting) is "F#2/G2."

Touch Sensitivity

The keyboard of the PSR-740/640 is equipped with a touch response feature that lets you dynamically and expressively control the level of the voices with your playing strength — just as on an acoustic instrument. The Touch Sensitivity parameter gives you detailed control over the touch response feature by letting you set the degree of touch response.



• Set the value with the **data dial**, the [+/YES] button, the [-/NO] button or the number buttons [1]-[0].

The greater the value, the more sensitive the keyboard is to your playing strength and the more dynamic range that can be brought out of the voices.

A setting of "0" results in a fixed touch response, or no level change no matter how hard or how soft you play the keys. (This setting is good for instrument sounds such as organ or harpsichord, which normally do not have touch response.) You can also achieve the same effect by turning touch response off with the [TOUCH] button on the panel (the indicator turns off).





Voice Set

The VOICE SET feature brings out the best in each individual voice by automatically setting a range of important voice-related parameters whenever an R1 panel voice is selected. The parameters that may be set by the VOICE SET feature are listed below. This function lets you turn VOICE SET on or off, as required.

● Voice Set Parameter List

- Voice R1 (Volume, octave, pan, reverb depth, chorus depth, DSP depth*)
- Voice R2 (Voice number, volume, octave, pan, reverb depth, chorus depth, DSP depth*)
- DSP on/off, type, return level and FAST/SLOW on/off
- Harmony Type, Volume, Part
- DSP1-3 dry/wet (PSR-740)
- Multi Effect connection (PSR-740)
- * PSR-640 only



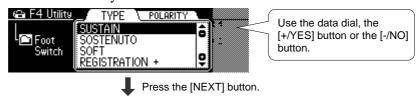
• Turn Voice Set ON or OFF by using the **data dial**, the [+/**YES**] button or the [-/**NO**] button.

Footswitch

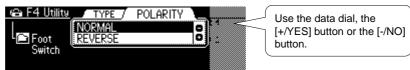
Various functions can be assigned to the footswitch connected to the SUSTAIN jack. The polarity of the footswitch can also be changed.



• Select the Functions to be controlled by the footswitch.



• Set the polarity of the footswitch NORMAL or REVERSE.



• Functions controlled by the footswitch

SUSTAIN When you press the foot switch, sustain is applied to the keyboard notes.



For "SUSTAIN," if you press and hold the foot switch here, all the notes shown will be sustained.

SOSTENUTO When you press the foot switch, the sostenuto effect is applied to

the sostenuto effect is applied to the keyboard notes.



For "SOSTENUTO," if you press and hold the foot switch here, only the first note will be sustained (the note that you played and held when pressing the foot switch).

	you played and neid when pressing the foot switch).
SOFT	When you press the foot switch, the soft effect is applied to the keyboard notes.
REGISTRATION+	When you press the foot switch, a register with one number higher is recalled. For example, if you step on the foot switch with bank 1-3 recalled, 1-4 will be recalled, then next 2-1 will be recalled.
REGISTRATION-	When you press the foot switch, a register with one number lower is recalled. For example, if you step on the foot switch with bank 3-2 recalled, 3-1 will be recalled, then next 2-4 will be recalled.
START/STOP	Pressing the footswitch has the same effect as pressing the START/STOP button on the panel.
SYNCHRO STOP	Pressing the footswitch has the same effect as pressing the SYNC STOP button on the panel.
BASS HOLD	The bass root note will be held as long as you press the footswitch.
BREAK	When you press the foot switch, accompaniment will stop. Releasing the switch with the foot will cause it to play again from the next measure.
TAP TEMPO	Pressing the footswitch has the same effect as pressing the TAP TEMPO button on the panel.

Polarity

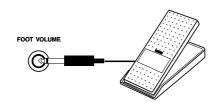
This parameter lets you configure the foot switch response of the PSR-740/640 to match that of the particular foot switch you are using. If the foot switch works in the opposite way (i.e., pressing the foot switch has no effect, but releasing it does), try changing this setting. The default setting is "NORMAL."

NOTE

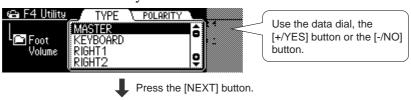
When using the "REGISTRATION+" or "REGISTRATION-" functions with the fooswitch, make sure to make the appropriate setting ("REGISTRATION+" or "REGISTRATION-") to all of the Registrations you intend to use with the footswitch.

Foot Volume

Various functions can be assigned to the foot volume connected to the FOOT VOL. jack. The polarity of the foot controller can also be changed.



• Select the Functions to be controlled by the foot volume.



• Set the polarity of the foot volume to "NORMAL" or "REVERSE."



• Functions controlled by the foot volume

MASTER	Controls the overall volume of the PSR-740/640.			
KEYBOARD	Simultaneously controls the volume of the R1, R2 and L voices (you			
	performance).			
RIGHT1	Controls the VOICE R1 volume.			
RIGHT2	Controls the VOICE R2 volume.			
LEFT	Controls the VOICE L volume.			
ACMP/SONG	Controls the accompaniment/song volume.			
SUSTAIN				
SOSTENUTO				
SOFT				
REGISTRATION+				
REGISTRATION-	These functions are the same as for the foot switch (page 137).			
START/STOP	All other functions are exclusive to foot volume control.			
SYNC STOP				
BREAK				
BASS HOLD				
TAP TEMPO				

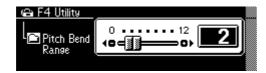
Polarity

This parameter lets you configure the foot controller response of the PSR-740/640 to match that of the particular foot controller you are using. If the foot controller works in the opposite way (i.e., pressing the foot controller down with your toes produces the minimum effect), try changing this setting.

The default setting is "NORMAL."

Pitch Bend Range

This determines the maximum pitch bend range for the **PITCH BEND** wheel. The range is from "0" to "12." Each increment corresponds to one semitone.



• Set the Pitch Bend Range with the **data dial**, the [+/YES] button, the [-/NO] button or the number buttons [1]-[0].

Modulation Wheel (PSR-740)

This lets you assign other functions to the $\boldsymbol{MODULATION}$ Wheel.



• Select a function with the **data dial**, the [+/YES] button or the [-/NO] button.

Modulation Wheel function list

MODULATION	Applies vibrato effects to the voices played from the keyboard.
BRIGHTNESS	Adjusts the brightness of the voices played on the keyboard. Increasing
	the depth makes the sound brighter, while decreasing it makes it softer.
RESONANCE	Adds resonance to the voices played on the keyboard.

PSR-740/640 Voices

The PSR-740/640 actually includes two voice sets: the "panel" voices and percussion kits, and the XG voices. The panel voices include 267 "pitched" voices (223 "pitched" voices for PSR-640) and 13 drum kits (12 drum kits for PSR-640), while the XG voice set includes 480 voices.

The panel voices are specially recorded and programmed voices exclusive to the PSR-740/640 and other PortaTone instruments. The XG voices conform to Yamaha's XG format; they also conform to the GM (General MIDI) standard. This allows you to accurately play back any GM- or XG-compatible song data directly on the PSR-740/640 itself, without having to change voices or make special settings. It also allows you to record songs for other GM- or XG-compatible instruments, and have them play back on those instruments as intended.

	Panel Voices	Drum Kits (Panel Voices)	XG Voices	Organ Flutes
PSR-740	1-267	268-280	281-760	761
PSR-640	1-223	224-235	236-715	_

Maximum Polyphony

The PSR-740 has 64-note maximum polyphony and the PSR-640 has 32. Auto Accompaniment uses a number of the available notes, so when Auto Accompaniment is used the total number of notes that can be played on the keyboard is correspondingly reduced. The same applies to the Voice R2, Voice L, Multi Pad, and Song functions. When the maximum polyphony is exceeded, notes are played using last-note priority.

NOTE

- The Voice List includes MIDI program change numbers for each voice. Use these program change numbers when playing the PSR-740/640 via MIDI from an external device.
- When the sustain or sostenuto pedal functions are being used (page 137), some voices may sound continuously or have a long decay after the notes have been released while the pedal is held.

[PSR-740] Panel Voice List

[]	Banl	k Select	MIDI				
Voice Number	MSB	LSB	Program Change Number	Voice Name			
	Piano						
1	0	112	0	Aco.Grand Piano			
2	0	112	1	Bright Aco.Piano			
3	0	112	3	Honky Tonk Piano			
4	0	114	2	Rock Piano			
5	0	112	2	Midi Grand Piano			
6	0	113	2	CP 80			
7	0	112	6	Harpsichord			
8	0	113	6	GrandHarpsichord			
		1	E.Piano				
9	0	114	4	Galaxy El.Piano			
10	0	117	4	Stage El.Piano			
11	0	115	4	Polaris El.Piano			
12	0	118	4	SuitcaseEl.Piano			
13	0	117	5	SuperDX El.Piano			
14	0	112	5	DXModernEl.Piano			
15	0	116	4	Vintage El.Piano			
16	0	112	4	Funk El.Piano			
17	0	115	5	Modern El.Piano			
18	0	113	5	Hyper Tines			
19	0	116	5	New Tines			
20	0	114	5	Venus El.Piano			
21	0	113	4	Tremolo El.Piano			
22	0	112	7	Clavi			
23	0	113	7	Wah Clavi			
	Organ						
24	0	117	18	Rotor Organ			
25	0	112	16	Jazz Organ 1			
26	0	113	16	Jazz Organ 2			
27	0	120	16	Glass Jazz Organ			
28	0	112	17	Click Organ			
29	0	113	17	Dance Organ			
30	0	115	16	Drawbar Organ			
31	0	115	17	MellowDrawOrgan			
32	0	116	16	BrightDrawOrgan			
33	0	112	18	Rock Organ 1			
34	0	113	18	Rock Organ 2			
35	0	118	18	Vintage Organ			
36	0	114	18	Purple Organ			
37	0	115	18	FullRockerOrgan			
38	0	116	18	Rotary Drive Org			
39	0	116	17	60's Organ			
40	0	118	17	Electric Organ			
41	0	114	16	Theater Organ 1			

	Banl	Select	MIDI			
Voice Number	MSB	LSB	Program Change Number	Voice Name		
42	0	114	17	Theater Organ 2		
43	0	112	19	Pipe Organ		
44	0	113	19	Chapel Organ 1		
45	0	114	19	Chapel Organ 2		
46	0	115	19	Chapel Organ 3		
47	0	112	20	Reed Organ		
			Accordic	on		
48	0	113	21	Trad.Accordion		
49	0	112	21	MusetteAccordion		
50	0	112	23	Tango Accordion		
51	0	113	23	Bandoneon		
52	0	114	21	Soft Accordion		
53	0	115	21	Small Accordion		
54	0	116	21	Accordion		
55	0	113	22	Modern Harp		
56	0	112	22	Harmonica		
57	0	114	22	Blues Harp		
Guitar						
58	0	113	24	Spanish Guitar		
59	0	112	24	Classic Guitar		
60	0	112	25	Folk Guitar		
61	0	113	25	12Strings Guitar		
62	0	114	24	SmoothNylonGuitr		
63	0	115	25	Campfire Guitar		
64	0	112	26	Jazz Guitar		
65	0	113	26	Octave Guitar		
66	0	114	26	Hawaiian Guitar		
67	0	118	27	Solid Guitar		
68	0	116	27	BrightCleanGuitr		
69	0	112	27	Clean Guitar		
70	0	119	27	Elec.12StrGuitar		
71	0	113	27	Tremolo Guitar		
72	0	114	27	Slap Guitar		
73	0	113	28	Funk Guitar		
74	0	112	28	Muted Guitar		
75	0	113	30	Crunch Guitar		
76	0	113	29	Feedback Guitar		
77	0	112	29	OverdrivenGuitar		
78	0	112	30	DistortionGuitar		
79	0	122	27	Wah Guitar		
80	0	115	27	PedalSteelGuitar		
81	0	114	25	Mandolin		
82	0	121	27	SolidChordGuitar		
83	0	114	30	StackCrunchGuitr		

	Rani	k Select	MIDI	
Voice Number	MSB	LSB	Program Change	Voice Name
			Number	
84	0	120	27	VintageTremGuitr
85	0	117	27	60'sCleanGuitar
86	0	112	33	Finger Bass
87	0	112	32	Acoustic Bass
88	0	113	32	Upright Bass
89	0	114	32	Aco.Bass&Cymbal
90	0	112	34	Pick Bass
91	0	112	35	Fretless Bass
92	0	113	35	Jaco Bass
93 94	0	112 112	36 37	Slap Bass Funk Bass
95	0	113	36	Fusion Bass
96	0	112	38	Synth Bass
97	0	112	39	Analog Bass
98	0	115	39	Touch Bass
99	0	114	39	Snap Bass
100	0	115	38	Click Bass
101	0	113	39	Dance Bass
102	0	113	38	Hi-Q Bass
103	0	114	38 Strings	Rave Bass
104	0	112	48	String Ensemble
105	0	116	49	ClassicalStrings
106	0	113	48	OrchestraStrings
107	0	114	48	SymphonicStrings
108	0	116	48	Bow Strings
109	0	113	49	SlowAttackStrngs
110	0	114	49	Strings Quartet
111	0	115	48	Concerto Strings
112 113	0	115	49	Marcato Strings Chamber Strings
114	0	112 112	49 44	Tremolo Strings
115	0	112	45	PizzicatoStrings
116	0	112	50	Synth Strings
117	0	112	51	Analog Strings
118	0	112	55	Orchestra Hit
119	0	112	40	Solo Violin
120	0	113	40	Soft Violin
121	0	112	110	Fiddle
122 123	0	112 112	41 42	Viola Cello
124	0	112	43	Contrabass
125	0	112	46	Harp
126	0	113	46	Hackbrett
127	0	112	106	Shamisen
128	0	112	107	Koto
129	0	112	104	Sitar
130	0	112	105	Banjo
131	0	114	Choir 52	Hah Choir
132	0	112	52	Choir
133	0	115	52	Uuh Choir
134	0	112	54	Air Choir
135	0	113	53	Gothic Vox
136	0	113	54	Voices
137	0	113	52	Vocal Ensemble
138	0	112	53 Trumps	Vox Humana
139	0	115	Trumpe 56	Sweet Trumpet
140	0	112	56	Solo Trumpet
141	0	114	56	Soft Trumpet
142	0	116	56	Jazz Trumpet
143	0	117	56	Air Trumpet
144	0	113	56	Flugel Horn

	Banl	k Select	MIDI	
Voice Number	MSB	LSB	Program Change Number	Voice Name
145	0	112	59	Muted Trumpet
146	0	112	57	Solo Trombone
147	0	116	57	Trombone
148	0	114	57	Mellow Trombone
149	0	115	57	Soft Trombone
150	0	112	60	French Horn
151	0	112	58 Brass	Tuba
152	0	113	61	Big Band Brass
153	0	121	61	Big Brass
154	0	112	61	Brass Section
155	0	116	61	Mellow Brass
156	0	117	61	Small Brass
157	0	118	61	Pop Brass
158	0	119	61	Mellow Horns
159	0	124	61	Step Brass
160	0	123	61	Soft Brass
161	0	113	59	Ballroom Brass
162	0	114	61	Full Horns
163	0	115	61	High Brass
164	0	120	61	Bright Brass
165	0	122	61	Trumpet Ensemble
166	0	113	57	Trombone Section
167	0	112	62	Synth Brass
168	0	112	63	Analog Brass
169	0	113	62	Jump Brass
170	0	114	62	Techno Brass
			Saxopho	ne
171	0	117	66	Sweet Tenor Sax
172	0	114	65	Sweet Alto Sax
173	0	114	71	Sweet Clarinet
174	0	118	66	Growl Sax
175	0	114	66	BreathyTenorSax
176	0	113	65	Breathy Alto Sax
177	0	112	64	Soprano Sax
178	0	112	65	Alto Sax
179	0	112	66	Tenor Sax
180	0	112	67	Baritone Sax
181	0	113	67	RockBaritoneSax
182	0	116	66	Sax Section
183	0	115	66	Sax Combo
184 185	0	112 113	71 71	Clarinet Mellow Clarinet
185	0	113	66	WoodwindEnsemble
187	0	112	68	Oboe
188	0	112	69	English Horn
189	0	112	70	Bassoon
103	0	112	Flute	Dassoon
190	0	114	73	Sweet Flute
191	0	112	73	Flute
192	0	115	73	Classical Flute
193	0	113	73	Pan Flute
194	0	112	72	Piccolo
195	0	112	75	Ethnic Flute
196	0	112	77	Shakuhachi
197	0	112	78	Whistle
198	0	112	74	Recorder
199	0	112	79	Ocarina
200	0	112	109	Bagpipe
			Synth Lea	
201	0	116	81	Fire Wire
202	0	120	81	Wire Lead
203	0	112	80	Square Lead
204	0	112	81	Sawtooth Lead
205	0	113	81	Big Lead
				-

Voice List

	Banl	k Select	MIDI	
Voice Number	MSB	LSB	Program Change Number	Voice Name
206	0	112	98	Stardust
207	0	114 115	81	Blaster
208	0	113	81 84	Analogon Adrenaline
210	0	113	80	Vintage Lead
211	0	113	98	Sun Bell
212	0	112	83	Aero Lead
213	0	114	80	Mini Lead
214	0	115	80	Vinylead
215	0	117	81	Warp
216	0	116	80	Hi Bias
217	0	117	80	Meta Wood
218	0	118	80	Tiny Lead
219 220	0	118 119	81 81	Sub Aqua Fargo
221	0	112	84	Portatone
222	0	112	96	Synchronize
223	0	113	87	Impact
224	0	121	81	Funky Lead
225	0	113	96	Rhythmatic
226	0	119	80	Synth Flute
227	0	112	87	Under Heim
228	0	114	96	Clockwork
			Synth Pa	
229	0	113	94	Insomnia
230 231	0	115 112	88	Golden Age
232	0	113	90 99	Krypton Cyber Pad
233	0	112	95	Wave 2001
234	0	112	94	Equinox
235	0	114	88	Stargate
236	0	112	92	DX Pad
237	0	112	93	Loch Ness
238	0	114	93	Glass Pad
239	0	112	88	Fantasia
240	0	112	91	Xenon Pad
241	0	112	101	Skydiver
242	0	112 114	97	Far East
243	0	112	95 89	Template Area 51
245	0	112	99	Atmosphere Pad
246	0	113	89	Dark Moon
247	0	115	94	Ionosphere
248	0	113	93	Phase IV
249	0	113	88	Symbiont
250	0	114	94	Solaris
251	0	116	88	Time Travel
252	0	117	88	Millenium
253	0	113	95	Transform
254	0	112 114	103 89	Baroque Dunes
255	U	114	Percussion	
256	0	113	11	Jazz Vibraphone
257	0	112	11	Vibraphone
258	0	112	12	Marimba
259	0	112	13	Xylophone
260	0	112	114	Steel Drums
261	0	112	8	Celesta
262	0	112	9	Glockenspiel
263	0	112	10	Music Box
264	0	112	14	Tubular Bells
265	0	112 112	108 47	Kalimba
266 267	0	112	15	Timpani Dulcimer
			10	2 31011101

	Bank Select		MIDI	
Voice Number	MSB	LSB	Program Change Number	Voice Name
			Drum Kit	s
268	127	0	0	Standard Kit 1
269	127	0	1	Standard Kit 2
270	127	0	4	Hit Kit
271	127	0	8	Room Kit
272	127	0	16	Rock Kit
273	127	0	24	Electronic Kit
274	127	0	25	Analog Kit
275	127	0	27	Dance Kit
276	127	0	32	Jazz Kit
277	127	0	40	Brush Kit
278	127	0	48	Symphony Kit
279	126	0	0	SFX Kit 1
280	126	0	1	SFX Kit 2

[PSR-640] Panel Voice List

	Banl	k Select	MIDI	
Voice Number	MSB	LSB	Program Change Number	Voice Name
			Piano	
1	0	112	0	Aco.Grand Piano
2	0	112	1	Bright Aco.Piano
3	0	112	3	Honky Tonk Piano
4	0	114	2	Rock Piano
5	0	112	2	Midi Grand Piano
6	0	113	2	CP 80
7 8	0	112 113	6	Harpsichord GrandHarpsichord
0	U	113	E.Piano	
9	0	114	4	Galaxy El.Piano
10	0	115	4	Polaris El.Piano
11	0	118	4	SuitcaseEl.Piano
12	0	117	5	SuperDX El.Piano
13	0	112	5	DXModernEl.Piano
14	0	112	4	Funk El.Piano
15	0	115	5	Modern El.Piano
16	0	113	5	Hyper Tines
17	0	116	5	New Tines
18	0	114	5	Venus El.Piano
19	0	113	4	Tremolo El.Piano
20	0	112	7	Clavi
21	0	113	7	Wah Clavi
	•	447	Organ	D
22	0	117	18	Rotor Organ
23	0	112	16	Jazz Organ 1
24	0	113 120	16 16	Jazz Organ 2 Glass Jazz Organ
26	0	112	17	Click Organ
27	0	113	17	Dance Organ
28	0	115	16	Drawbar Organ
29	0	115	17	MellowDrawOrgan
30	0	116	16	BrightDrawOrgan
31	0	112	18	Rock Organ 1
32	0	113	18	Rock Organ 2
33	0	114	18	Purple Organ
34	0	116	17	60's Organ
35	0	117	17	Blues Organ
36	0	117	16	16+1 Organ
37	0	118	16	16+2 Organ
38	0	119	16	16+4 Organ
39	0	118	17	Electric Organ
40	0	114	16	Theater Organ 1
41	0	114	17	Theater Organ 2
42	0	112	19	Pipe Organ
43	0	113 114	19 19	Chapel Organ 1 Chapel Organ 2
44	0	115	19	Chapel Organ 2 Chapel Organ 3
45	0	112	20	Reed Organ
70	J	112	Accordio	
47	0	113	21	Trad.Accordion
48	0	112	21	MusetteAccordion
49	0	112	23	Tango Accordion
50	0	113	23	Bandoneon
51	0	114	21	Soft Accordion
52	0	115	21	Accordion
53	0	112	22	Harmonica
Guitar				
54	0	113	24	Spanish Guitar
55	0	112	24	Classic Guitar
56	0	112	25	Folk Guitar
57	0	113	25	12Strings Guitar

	Banl	k Select	MIDI	
Voice Number	MSB	LSB	Program Change Number	Voice Name
58	0	114	24	SmoothNylonGuitr
59	0	115	25	Campfire Guitar
60	0	112	26	Jazz Guitar
61	0	113	26	Octave Guitar
62	0	114	26	Hawaiian Guitar Solid Guitar
63 64	0	118 116	27 27	BrightCleanGuitr
65	0	112	27	Clean Guitar
66	0	119	27	Elec.12StrGuitar
67	0	113	27	Tremolo Guitar
68	0	114	27	Slap Guitar
69	0	113	28	Funk Guitar
70	0	112	28	Muted Guitar
71	0	113	30	Crunch Guitar
72	0	113	29	Feedback Guitar
73	0	112	29	OverdrivenGuitar
74	0	112	30	DistortionGuitar
75	0	115	27	PedalSteelGuitar
76	0	114	25	Mandolin
77	0	121	27	SolidChordGuitar
78	0	120	27	VintageTremGtr
79	0	117	27 Bass	60'sCleanGuitar
80	0	112	33	Finger Bass
81	0	112	32	Acoustic Bass
82	0	114	32	Aco.Bass&Cymbal
83	0	112	34	Pick Bass
84	0	112	35	Fretless Bass
85	0	113	35	Jaco Bass
86	0	112	36	Slap Bass
87	0	112	37	Funk Bass
88	0	113	36	Fusion Bass
89	0	112	38	Synth Bass
90	0	112	39	Analog Bass
91	0	113	39	Dance Bass
92	0	113	38	Hi-Q Bass
93	0	114	38 Strings	Rave Bass
94	0	112	48	String Ensemble
95	0	113	48	OrchestraStrings
96	0	114	48	SymphonicStrings
97	0	113	49	SlowAttackStrngs
98	0	114	49	Strings Quartet
99	0	115	48	Concerto Strings
100	0	115	49	Marcato Strings
101	0	112	49	Chamber Strings
102	0	112	44	Tremolo Strings
103	0	112	45	PizzicatoStrings
104	0	112	50	Synth Strings
105	0	112	51	Analog Strings
106	0	112	55	Orchestra Hit
107	0	112	40	Solo Violin
108 109	0	113 112	40 110	Soft Violin Fiddle
110	0	112	41	Viola
111	0	112	42	Cello
112	0	112	43	Contrabass
113	0	112	46	Harp
114	0	113	46	Hackbrett
115	0	112	106	Shamisen
116	0	112	107	Koto
117	0	112	104	Sitar

Voice List

	Banl	k Select	MIDI		
Voice Number	MSB	LSB	Program Change Number	Voice Name	
118	0	112	105	Banjo	
110		112	Choir 52	Chair	
119 120	0	112	54	Choir Air Choir	
121	0	113	53	Gothic Vox	
122	0	113	52	Vocal Ensemble	
123	0	112	53	Vox Humana	
		<u>'</u>	Trumpe	t	
124	0	115	56	Sweet Trumpet	
125	0	112	56	Solo Trumpet	
126	0	114	56	Soft Trumpet	
127 128	0	113 112	56 59	Flugel Horn Muted Trumpet	
129	0	112	57	Trombone	
130	0	114	57	Mellow Trombone	
131	0	112	60	French Horn	
132	0	112	58	Tuba	
			Brass		
133	0	113	61	Big Band Brass	
134	0	112	61	Brass Section	
135	0	116	61	Mellow Brass	
136 137	0	117 118	61 61	Small Brass	
138	0	119	61	Pop Brass Mellow Horns	
139	0	113	59	Ballroom Brass	
140	0	114	61	Full Horns	
141	0	115	61	High Brass	
142	0	120	61	Bright Brass	
143	0	113	57	Trombone Section	
144	0	112	62	Synth Brass	
145	0	112	63	Analog Brass	
146	0	113	62	Jump Brass	
147	0	114	62 Savanha	Techno Brass	
148	0	117	Saxopho 66	Sweet Tenor Sax	
149	0	114	65	Sweet Alto Sax	
150	0	114	71	Sweet Clarinet	
151	0	114	66	BreathyTenorSax	
152	0	113	65	Breathy Alto Sax	
153	0	112	64	Soprano Sax	
154	0	112	65	Alto Sax	
155	0	112	66	Tenor Sax	
156 157	0	112 116	67 66	Baritone Sax Sax Section	
158	0	115	66	Sax Combo	
159	0	112	71	Clarinet	
160	0	113	71	Mellow Clarinet	
161	0	113	66	WoodwindEnsemble	
162	0	112	68	Oboe	
163	0	112	69	English Horn	
164	0	112	70	Bassoon	
405	_	440	Flute	Fluto	
165 166	0	112 113	73 73	Flute Pan Flute	
167	0	112	72	Piccolo	
168	0	112	75	Ethnic Flute	
169	0	112	77	Shakuhachi	
170	0	112	78	Whistle	
171	0	112	74	Recorder	
172	0	112	79	Ocarina	
173	0	112	109	Bagpipe	
47:	Synth Lead 174 0 116 81 Fire Wire				
174	0	116	81	Fire Wire	
175 176	0	112 112	80 81	Square Lead Sawtooth Lead	
170	U	112	UI	Cawiooiii Leau	

	Banl	< Select	MIDI	
Voice Number	MSB	LSB	Program Change Number	Voice Name
177	0	113	81	Big Lead
178	0	112	98	Stardust
179	0	114	81	Blaster
180	0	115	81	Analogon
181	0	113	80	Vintage Lead
182 183	0	113 112	98 83	Sun Bell Aero Lead
184	0	114	80	Mini Lead
185	0	115	80	Vinylead
186	0	117	81	Warp
187	0	116	80	Hi Bias
188	0	117	80	Meta Wood
189	0	118	80	Tiny Lead
190	0	118	81	Sub Aqua
191	0	119	81	Fargo
			Synth Pa	ıd
192	0	113	94	Insomnia
193	0	115	88	Golden Age
194	0	112	90	Krypton
195	0	113	99	Cyber Pad
196	0	112	95	Wave 2001
197	0	112	94	Equinox
198	0	114	88	Stargate
199	0	112	92	DX Pad
200	0	112	93	Loch Ness
201	0	112	88	Fantasia Yanan Bad
202	0	112 112	91 89	Xenon Pad Area 51
203	0	112	99	Atmosphere Pad
205	0	113	89	Dark Moon
206	0	115	94	Ionosphere
207	0	113	93	Phase IV
208	0	113	88	Symbiont
209	0	114	94	Solaris
210	0	117	88	Millenium
211	0	113	95	Transform
			Percussion	on
212	0	113	11	Jazz Vibraphone
213	0	112	11	Vibraphone
214	0	112	12	Marimba
215	0	112	13	Xylophone
216	0	112	114	Steel Drums
217	0	112	8	Celesta
218	0	112	9	Glockenspiel
219	0	112	10	Music Box
220	0	112	14	Tubular Bells
221	0	112 112	108	Kalimba
222	0	112	47 15	Timpani Dulcimer
223	U	112	Drum Kit	
224	127	0	0	Standard Kit 1
225	127	0	1	Standard Kit 2
226	127	0	8	Room Kit
227	127	0	16	Rock Kit
228	127	0	24	Electronic Kit
229	127	0	25	Analog Kit
230	127	0	27	Dance Kit
231	127	0	32	Jazz Kit
232	127	0	40	Brush Kit
233	127	0	48	Symphony Kit
234	126	0	0	SFX Kit 1
235	126	0	1	SFX Kit 2

[PSR-740/640] XG Voice List

PSR-740	PSR-640	Bank	Select	MIDI		
Voice Number	Voice Number	MSB	LSB	Program Change Number	Voice Name	
281	236	0	0	0	Aco.Grand Piano	
282	237	0	1	0	Grand Piano KSP	
283	238	0	18	0	MellowGrandPiano	
284	239	0	40	0	Piano Strings	
285 286	240	0	41 0	0	Dream	
287	241	0	1	1	Bright Aco.Piano Bright Piano KSP	
288	243	0	0	2	Elec.Grand Piano	
289	244	0	1	2	ElecGrndPianoKSP	
290	245	0	32	2	Detuned CP80	
291	246	0	40	2	Layered CP 1	
292	247	0	41	2	Layered CP 2	
293	248	0	0	3	Honkytonk Piano	
294	249	0	1	3	HonkytonkPnoKSP	
295	250	0	0	4	Electric Piano 1	
296	251	0	1	4	Elec.Piano 1 KSP	
297	252	0	18	4	MellowEl.Piano1	
298	253	0	32	4	ChorusEl.Piano1	
299 300	254 255	0	40 45	4	Hard El.Piano VIXfadeEl.Piano1	
301	256	0	64	4	60's El.Piano 1	
302	257	0	0	5	Electric Piano 2	
303	258	0	1	5	Elec.Piano 2 KSP	
304	259	0	32	5	ChorusEl.Piano2	
305	260	0	33	5	DX El.Piano Hard	
306	261	0	34	5	DX Legend	
307	262	0	40	5	DX PhaseEl.Piano	
308	263	0	41	5	DX+AnalogElPiano	
309	264	0	42	5	DX Koto El.Piano	
310	265	0	45	5	VIXfadeEI.Piano2	
311	266	0	0	6	Harpsichord	
312	267	0	1	6	Harpsichord KSP	
313	268	0	25	6	Harpsichord 2	
314 315	269 270	0	35 0	6 7	Harpsichord 3 Clavi.	
316	271	0	1	7	Clavi.KSP	
317	272	0	27	7	Clavi.Wah	
318	273	0	64	7	Pulse Clavi.	
319	274	0	65	7	Pierce Clavi.	
320	275	0	0	8	Celesta	
321	276	0	0	9	Glockenspiel	
322	277	0	0	10	Music Box	
323	278	0	64	10	Orgel	
324	279	0	0	11	Vibraphone	
325	280	0	1	11	Vibraphone KSP	
326	281	0	45	11	Hard Vibraphone	
327	282	0	1	12	Marimba Marimba KSP	
328 329	283 284	0	64	12 12	Sine Marimba	
330	285	0	97	12	Balimba	
331	286	0	98	12	Log Drums	
332	287	0	0	13	Xylophone	
333	288	0	0	14	Tubular Bells	
334	289	0	96	14	Church Bells	
335	290	0	97	14	Carillon	
336	291	0	0	15	Dulcimer	
337	292	0	35	15	Dulcimer 2	
338	293	0	96	15	Cimbalom	
339	294	0	97	15	Santur	
340	295	0	0	16	Drawbar Organ	
341	296	0	32	16	DetunedDrawOrgan	
342	297	0	33	16	60sDrawbarOrgan1	
		0	34	16	60sDrawbarOrgan2	
343	298	0	35			
343 344	299	0	35 36	16 16		
343 344 345	299 300	0	36	16	Drawbar Organ 2	
343 344 345 346	299 300 301	0	36 37	16 16	Drawbar Organ 2 60sDrawbarOrgan3	
343 344 345	299 300	0	36	16	70sDrawbarOrgan1 Drawbar Organ 2 60sDrawbarOrgan3 Even Bar Organ 16+2'2/3 Organ	

PSR-740	PSR-640	Bank	Select	MIDI		PSR-740	PSR-640	Bank	Select	MIDI	
Voice Number	Voice Number	мѕв	LSB	Program Change Number	Voice Name	Voice Number	Voice Number	MSB	LSB	Program Change Number	Voice Name
350	305	0	65	16	70sDrawbarOrgan2	419	374	0	33	35	Fretless Bass
351	306	0	66	16	Cheezy Organ	420	375	0	34	35	Fretless Bass 4
352	307	0	67	16	Drawbar Organ 3	421	376	0	96	35	Synth Fretless
353	308	0	0	17	Percussive Organ	422	377	0	97	35	Smooth Fretles
354	309	0	24 32	17 17	70s Perc.Organ 1	423 424	378	0	0 27	36 36	Slap Bass 1
355 356	310 311	0	33	17	DetunedPercOrgan Light Organ	424	379 380	0	32	36	Resonant Slap Punch Thumb
357	312	0	37	17	PercussiveOrgan2	426	381	0	0	37	Slap Bass 2
358	313	0	0	18	Rock Organ	427	382	0	43	37	Velocity Sw.Sla
359	314	0	64	18	Rotary Organ	428	383	0	0	38	Synth Bass 1
360	315	0	65	18	SlowRotaryOrgan	429	384	0	18	38	SynthBass1Da
361	316	0	66	18	FastRotaryOrgan	430	385	0	20	38	FastResonant
362	317	0	0	19	Church Organ	431	386	0	24	38	Acid Bass
363	318	0	32	19	Church Organ 3	432	387	0	35	38	Clavi Bass
364 365	319 320	0	35 40	19 19	Church Organ 2 Notre Dame	433	388	0	40 64	38 38	TechnoSynthB Orbiter
366	321	0	64	19	Organ Flute	434	390	0	65	38	Square Bass
367	322	0	65	19	Trem.Organ Flute	436	391	0	66	38	Rubber Bass
368	323	0	0	20	Reed Organ	437	392	0	96	38	Hammer
369	324	0	40	20	Puff Organ	438	393	0	0	39	Synth Bass 2
370	325	0	0	21	Accordion	439	394	0	6	39	MellowSynthB
371	326	0	32	21	Accord It	440	395	0	12	39	Sequenced Ba
372	327	0	0	22	Harmonica	441	396	0	18	39	Click Synth Ba
373	328	0	32	22	Harmonica 2	442	397	0	19	39	SynthBass2Da
374	329	0	0	23	Tango Accordion	443	398	0	32	39	SmoothSynthE
375	330	0	64	23	TangoAccordion2	444	399	0	40	39	ModularSynthE
376 377	331 332	0	0 16	24	Nylon Guitar Nylon Guitar 2	445 446	400	0	41 64	39 39	DX Bass X Wire Bass
378	333	0	25	24	Nylon Guitar 3	447	401	0	0	40	Violin
379	334	0	43	24	Velo.GuitarHarmo	448	403	0	8	40	SlowAttackVio
380	335	0	96	24	Ukulele	449	404	0	0	41	Viola
381	336	0	0	25	Steel Guitar	450	405	0	0	42	Cello
382	337	0	16	25	Steel Guitar 2	451	406	0	0	43	Contrabass
883	338	0	35	25	12-string Guitar	452	407	0	0	44	Tremolo String
384	339	0	40	25	Nylon&Steel Gtr	453	408	0	8	44	SlwAtkTremStr
85	340	0	41	25	Steel Gtr & Body	454	409	0	40	44	Suspense Strir
86	341	0	96	25	Mandolin	455	410	0	0	45	PizzicatoString
87	342	0	0	26	Jazz Guitar	456	411	0	0	46	Orchestral Har
88	343	0	18	26	Mellow Guitar	457	412	0	40 0	46 47	Yang Chin
389 390	345	0	32 0	26 27	Jazz Amp Clean Guitar	458 459	413 414	0	0	48	Timpani StringEnsembl
391	346	0	32	27	Chorus Guitar	460	415	0	3	48	Stereo Strings
392	347	0	0	28	Muted Guitar	461	416	0	8	48	SlowAttackStrr
393	348	0	40	28	Funk Guitar 1	462	417	0	24	48	Arco Strings
394	349	0	41	28	MutedSteelGuitar	463	418	0	35	48	60's Strings
395	350	0	43	28	Funk Guitar 2	464	419	0	40	48	Orchestra
396	351	0	45	28	Jazz Man	465	420	0	41	48	Orchestra 2
397	352	0	0	29	OverdrivenGuitar	466	421	0	42	48	TremoloOrches
398	353	0	43	29	Guitar Pinch	467	422	0	45	48	Velocity String
399	354	0	0	30	DistortionGuitar	468	423	0	0	49	StringEnsembl
400 401	355 356	0	40	30	Feedback Guitar FeedbackGuitar2	469 470	424 425	0	8	49 49	StereoSlowStr Legato Strings
401	357	0	0	31	Guitar Harmonics	470	425	0	40	49	Warm Strings
403	358	0	65	31	Guitar Feedback	472	427	0	41	49	Kingdom
404	359	0	66	31	GuitarHarmonics2	473	428	0	64	49	70's Strings
405	360	0	0	32	Acoustic Bass	474	429	0	65	49	StringEnsembl
406	361	0	40	32	Jazz Rhythm	475	430	0	0	50	Synth Strings
407	362	0	45	32	VelXfUprightBass	476	431	0	27	50	Resonant Strin
408	363	0	0	33	Finger Bass	477	432	0	64	50	Synth Strings 4
409	364	0	18	33	Finger Bass Dark	478	433	0	65	50	Synth Strings
410	365	0	27	33	Flange Bass	479	434	0	0	51	Synth Strings 2
411	366	0	40	33	Bass&DistortedEG	480	435	0	0	52	Choir Aahs
412	367	0	43	33	Finger Slap Bass	481	436	0	16	52	Stereo Choir
413 414	368 369	0	45 65	33	Finger Bass 2 Modulated Bass	482 483	437 438	0	16 32	52 52	Choir Aahs 2 Mellow Choir
415	370	0	0	34	Pick Bass	484	439	0	40	52	Choir Strings
416	371	0	28	34	Muted Pick Bass	485	440	0	0	53	Voice Oohs
417	372	0	0	35	Fretless Bass	486	441	0	0	54	Synth Voice
417	012			00	1 1011000 0000	1 400	1 1			J 0-	Oynthi voice

PSR-740 Voice	PSR-640 Voice	Bank		MIDI Program	Voice Name
Number	Number	MSB	LSB	Change Number	
419	374	0	33	35	Fretless Bass 3
420 421	375 376	0	34 96	35	Fretless Bass 4 Synth Fretless
421	376	0	96	35 35	Smooth Fretless
423	378	0	0	36	Slap Bass 1
424	379	0	27	36	Resonant Slap
425	380	0	32	36	Punch Thumb Bass
426	381	0	0	37	Slap Bass 2
427	382	0	43	37	Velocity Sw.Slap
428 429	383 384	0	0 18	38 38	Synth Bass 1 SynthBass1Dark
430	385	0	20	38	FastResonantBass
431	386	0	24	38	Acid Bass
432	387	0	35	38	Clavi Bass
433	388	0	40	38	TechnoSynthBass
434	389	0	64	38	Orbiter
435	390	0	65	38	Square Bass
436	391	0	66	38	Rubber Bass
437 438	392 393	0	96 0	38 39	Hammer Synth Bass 2
439	393	0	6	39	MellowSynthBass
440	395	0	12	39	Sequenced Bass
441	396	0	18	39	Click Synth Bass
442	397	0	19	39	SynthBass2Dark
443	398	0	32	39	SmoothSynthBass
444	399	0	40	39	ModularSynthBass
445	400	0	41	39	DX Bass
446	401	0	64	39	X Wire Bass
447 448	402 403	0	8	40	Violin SlowAttackViolin
449	404	0	0	41	Viola
450	405	0	0	42	Cello
451	406	0	0	43	Contrabass
452	407	0	0	44	Tremolo Strings
453	408	0	8	44	SlwAtkTremStrngs
454	409	0	40	44	Suspense Strings
455	410 411	0	0	45	PizzicatoStrings
456 457	411	0	0 40	46 46	Orchestral Harp Yang Chin
458	413	0	0	47	Timpani
459	414	0	0	48	StringEnsemble1
460	415	0	3	48	Stereo Strings
461	416	0	8	48	SlowAttackStrngs
462	417	0	24	48	Arco Strings
463	418	0	35	48	60's Strings
464 465	419 420	0	40	48 48	Orchestra Orchestra 2
466	421	0	42	48	TremoloOrchestra
467	422	0	45	48	Velocity Strings
468	423	0	0	49	StringEnsemble2
469	424	0	3	49	StereoSlowStrngs
470	425	0	8	49	Legato Strings
471	426	0	40	49	Warm Strings
472 473	427 428	0	41 64	49 49	Kingdom 70's Strings
474	429	0	65	49	StringEnsemble3
475	430	0	0	50	Synth Strings 1
476	431	0	27	50	Resonant Strings
477	432	0	64	50	Synth Strings 4
478	433	0	65	50	Synth Strings 5
479	434	0	0	51	Synth Strings 2
480	435	0	0	52	Choir Aahs
481	436	0	3	52	Stereo Choir
482 483	437 438	0	16 32	52 52	Choir Aahs 2 Mellow Choir
484	439	0	40	52	Choir Strings
485	440	0	0	53	Voice Oohs
486	441	0	0	54	Synth Voice
487	442	0	40	54	Synth Voice 2

Voice List

PSR-740 Voice Number	PSR-640 Voice Number	MSB	LSB	MIDI Program Change	Voice Name
488	443	0	41	Number 54	Choral
489	444	0	64	54	Analog Voice
490	445	0	0	55	Orchestra Hit
491	446	0	35	55	Orchestra Hit 2
492	447	0	64	55	Impact
493	448	0	0	56	Trumpet
494	449	0	16	56	Trumpet 2
495	450	0	17	56	Bright Trumpet
496	451	0	32	56	Warm Trumpet
497	452	0	0	57	Trombone
498	453	0	18	57	Trombone 2
499	454	0	0	58	Tuba
500	455	0	16	58	Tuba 2
501	456	0	0	59	Muted Trumpet
502	457	0	0	60	French Horn
503	458	0	6	60	French Horn Solo
504	459	0	32	60	French Horn 2
505	460	0	37	60	Horn Orchestra
506	461	0	0	61	Brass Section
507	462	0	35	61	Trp&TrbSection
508	463	0	40	61	Brass Section 2
509	464	0	41	61	High Brass
510	465	0	42	61	Mellow Brass
511	466	0	0	62	Synth Brass 1
512	467	0	12	62	Quack Brass
513	468	0	20	62	Reso Synth Brass
514	469	0	24	62	Poly Brass
515	470	0	27	62	Synth Brass 3
516	471	0	32	62	Jump Brass
517 518	472	0	45 64	62 62	Analog VeloBrass1
519	473 474	0	0	63	Analog Brass 1 Synth Brass 2
520	474	0	18	63	Soft Brass
521	476	0	40	63	Synth Brass 4
522	477	0	41	63	Choir Brass
523	478	0	45	63	AnalogVeloBrass2
524	479	0	64	63	Analog Brass 2
525	480	0	0	64	Soprano Sax
526	481	0	0	65	Alto Sax
527	482	0	40	65	Sax Section
528	483	0	43	65	Hyper Alto Sax
529	484	0	0	66	Tenor Sax
530	485	0	40	66	BreathyTenorSax
531	486	0	41	66	Soft Tenor Sax
532	487	0	64	66	Tenor Sax 2
533	488	0	0	67	Baritone Sax
534	489	0	0	68	Oboe
535	490	0	0	69	English Horn
536	491	0	0	70	Bassoon
537	492	0	0	71	Clarinet
538	493	0	0	72	Piccolo
539	494	0	0	73	Flute
540	495	0	0	74	Recorder
541	496	0	0	75	Pan Flute
542	497	0	0	76	Blown Bottle
543	498	0	0	77	Shakuhachi
544	499	0	0	78	Whistle
545	500	0	0	79	Ocarina
546	501	0	0	80	Square Lead
547	502	0	6	80	Square Lead 2
548	503	0	8	80	LM Square
549	504	0	18	80	Hollow
EEC	505	0	19	80	Shroud
550	506	0	64	80	Mellow
551	E^-	0	65	80	Solo Sine
551 552	507	_	60		Sine Lead
551 552 553	508	0	66	80	
551 552 553 554	508 509	0	0	81	Sawtooth Lead
551 552 553 554 555	508 509 510	0 0 0	0 6	81 81	Sawtooth Lead Sawtooth Lead 2
551 552 553 554 555 556	508 509 510 511	0 0 0	0 6 8	81 81 81	Sawtooth Lead Sawtooth Lead 2 Thick Sawtooth
551 552 553 554 555	508 509 510	0 0 0	0 6	81 81	Sawtooth Lead Sawtooth Lead 2

PSR-740	PSR-640	Bank	Select	MIDI	
Voice Number	Voice Number	MSB	LSB	Program Change	Voice Name
560	515	0	24	Number 81	Heavy Synth
561	516	0	25	81	Waspy Synth
562	517	0	40	81	Pulse Sawtooth
563	518	0	41	81	Dr. Lead
564	519	0	45	81	Velocity Lead
565	520	0	96	81	Sequenced Analog
566	521	0	0	82	Calliope Lead
567	522	0	65	82	Pure Pad
568	523	0	0	83	Chiff Lead
569	524	0	64	83	Rubby
570	525	0	0	84	Charang Lead
571	526	0	64	84	Distorted Lead
572	527	0	65	84	Wire Lead
573	528	0	0	85	Voice Lead
574 575	529 530	0	24 64	85 85	Synth Aahs Vox Lead
576	531	0	0	86	Fifths Lead
577	532	0	35	86	Big Five
578	533	0	0	87	Bass & Lead
579	534	0	16	87	Big & Low
580	535	0	64	87	Fat & Perky
581	536	0	65	87	Soft Whirl
582	537	0	0	88	New Age Pad
583	538	0	64	88	Fantasy
584	539	0	0	89	Warm Pad
585	540	0	16	89	Thick Pad
586	541	0	17	89	Soft Pad
587	542	0	18	89	Sine Pad
588	543	0	64	89	Horn Pad
589	544	0	65	89	Rotary Strings
590	545	0	0	90	Poly Synth Pad
591	546	0	64	90	Poly Pad 80
592	547	0	65	90	Click Pad
593	548	0	66	90	Analog Pad
594	549	0	67	90	Square Pad
595	550	0	0	91	Choir Pad
596	551	0	64	91	Heaven
597	552	0	66	91	Itopia
598	553	0	67	91	CC Pad
599	554	0	0	92	Bowed Pad
600	555	0	64	92	Glacier
601	556 557	0	65	92	Glass Pad Metallic Pad
		0	0 64		Tine Pad
603 604	558 559	0	65	93	Pan Pad
605	560	0	0	94	Halo Pad
606	561	0	0	95	Sweep Pad
607	562	0	20	95	Shwimmer
608	563	0	27	95	Converge
609	564	0	64	95	Polar Pad
610	565	0	66	95	Celestial
611	566	0	0	96	Rain
612	567	0	45	96	Clavi Pad
613	568	0	64	96	Harmo Rain
614	569	0	65	96	African Wind
615	570	0	66	96	Carib
616	571	0	0	97	Sound Track
617	572	0	27	97	Prologue
618	573	0	64	97	Ancestral
619	574	0	0	98	Crystal
620	575	0	12	98	Synth Drum Comp
621	576	0	14	98	Popcorn
622	577	0	18	98	Tiny Bells
623	578	0	35	98	Round Glocken
624	579	0	40	98	Glocken.Chimes
625	580	0	41	98	Clear Bells
	581	0	42	98	Chorus Bells
626			64	98	Synth Mallet
626 627	582	0		_	· ·
626 627 628	583	0	65	98	Soft Crystal
626 627				_	· ·

PSR-740 PSR-640 Bank		Bank	Select	MIDI		
Voice Number	Voice Number	MSB	LSB	Program Change Number	Voice Name	
632	587	0	69	98	Digital Bells	
633	588	0	70	98	Air Bells	
634	589	0	71	98	Bell Harp	
635	590	0	72	98	Gamelimba	
636	591	0	0	99	Atmosphere	
637	592	0	18	99	Warm Atmosphere	
638	593	0	19	99	Hollow Release	
639	594	0	40	99	Nylon El.Piano	
640 641	595 596	0	64 65	99	Nylon Harp Harp Vox	
642	597	0	66	99	Atmosphere Pad	
643	598	0	67	99	Planet	
644	599	0	0	100	Brightness	
645	600	0	64	100	Fantasy Bells	
646	601	0	96	100	Smokey	
647	602	0	0	101	Goblins	
648	603	0	64	101	Goblins Synth	
649	604	0	65	101	Creeper	
650	605	0	66	101	Ring Pad	
651 652	606 607	0	67 68	101	Ritual To Heaven	
653	608	0	70	101	Night	
654	609	0	71	101	Glisten	
655	610	0	96	101	Bell Choir	
656	611	0	0	102	Echoes	
657	612	0	8	102	Echoes 2	
658	613	0	14	102	Echo Pan	
659	614	0	64	102	Echo Bells	
660	615	0	65	102	Big Pan	
661	616	0	66	102	Synth Piano Creation	
662 663	617 618	0	67 68	102	Star Dust	
664	619	0	69	102	Resonant&Panning	
665	620	0	0	103	Sci-Fi	
666	621	0	64	103	Starz	
667	622	0	0	104	Sitar	
668	623	0	32	104	Detuned Sitar	
669	624	0	35	104	Sitar 2	
670	625	0	96	104	Tambra	
671 672	626 627	0	97 0	104 105	Tamboura	
673	628	0	28	105	Banjo Muted Banjo	
674	629	0	96	105	Rabab	
675	630	0	97	105	Gopichant	
676	631	0	98	105	Oud	
677	632	0	0	106	Shamisen	
678	633	0	0	107	Koto	
679	634	0	96	107	Taisho-kin	
680	635	0	97	107	Kanoon	
681 682	636	0	0	108	Kalimba	
683	637 638	0	0	110	Bagpipe Fiddle	
684	639	0	0	111	Shanai	
685	640	0	64	111	Shanai 2	
686	641	0	96	111	Pungi	
687	642	0	97	111	Hichiriki	
688	643	0	0	112	Tinkle Bell	
689	644	0	96	112	Bonang	
690	645	0	97	112	Altair	
691	646	0	98	112	Gamelan Gongs	
692 693	647	0	99 100	112 112	Stereo Gamelan Rama Cymbal	
694	648 649	0	100	112	Asian Bells	
695	650	0	0	113	Agogo	
696	651	0	0	114	Steel Drums	
697	652	0	97	114	Glass Percussion	
698	653	0	98	114	Thai Bells	
699	654	0	0	115	Woodblock	
700	655	0	96	115	Castanets	
701	656	0	0	116	Taiko Drum	
702	657	0	96	116	Gran Cassa	
703	658		0	117	Melodic Tom	

		Bank Select		MIDI			
PSR-740 Voice	PSR-640 Voice			Program	Voice Name		
Number	Number	MSB	LSB	Change Number	10.00 114		
704	659	0	64	117	Melodic Tom 2		
705	660	0	65	117	Real Tom		
706	661	0	66	117	Rock Tom		
707	662	0	0	118	Synth Drum		
708	663	0	64	118	Analog Tom		
709	664	0	65	118	Electronic Perc.		
710	665	0	0	119	Reverse Cymbal		
711	666	0	0	120	GuitarFretNoise		
712	667	0	0	121	Breath Noise		
713	668	0	0	122	Seashore		
714	669	0	0	123	Bird Tweet		
715	670	0	0	124	Telephone Ring		
716	671	0	0	125	Helicopter		
717	672	0	0	126	Applause		
718	673	0	0	127	Gunshot		
719	674	64	0	0	Cutting Noise		
720	675	64	0	1	Cutting Noise 2		
721	676	64	0	3	String Slap		
722	677	64	0	16	Flute Key Click		
723	678	64	0	32	Shower		
724	679	64	0	33	Thunder		
725	680	64	0	34	Wind		
726	681	64	0	35	Stream		
727	682	64	0	36	Bubble		
728	683	64	0	37	Feed		
729	684	64	0	48	Dog		
730	685 686	64 64	0	49 50	Horse		
731 732	687	64	0	54	Bird Tweet 2 Ghost		
733	688	64	0	55	Maou		
734	689	64	0	64	Phone Call		
735	690	64	0	65	Door Squeak		
736	691	64	0	66	Door Slam		
737	692	64	0	67	Scratch Cut		
738	693	64	0	68	Scratch Split		
739	694	64	0	69	Wind Chime		
740	695	64	0	70	Telephone Ring 2		
741	696	64	0	80	CarEngineIgntion		
742	697	64	0	81	Car Tires Squeal		
743	698	64	0	82	Car Passing		
744	699	64	0	83	Car Crash		
745	700	64	0	84	Siren		
746	701	64	0	85	Train		
747	702	64	0	86	Jet Plane		
748	703	64	0	87	Starship		
749	704	64	0	88	Burst		
750	705	64	0	89	Roller Coaster		
751	706	64	0	90	Submarine		
752	707	64	0	96	Laugh		
753	708	64	0	97	Scream		
754	709	64	0	98	Punch		
755	710	64	0	99	Heartbeat		
756	711	64	0	100	FootSteps		
757	712	64	0	112	Machine Gun		
758	713	64	0	113	Laser Gun		
759	714	64	0	114	Explosion		
760	715	64	0	115	Firework		

Drum Kit List

- "<---" indicates that the drum kit is the same as "Standard Kit1".
- Each percussion voice uses one note.
- The note numbers and note names printed on the keyboard are one
 octave higher than the MIDI note numbers and note names shown
 in the list. For example, the note number and note name, #36 and
 C1, on the keyboard correspond to the MIDI note number and note
 name, #24 and C0, shown in the list.

	Bank	MSB	127	127	127	127	127	127	127
į	Bank	(LSB	0	0	0	0	0	0	0
		Number	0	1	4	8	16	24	25
	Note #	Note	Standard Kit 1	Standard Kit 2	Hit Kit (PSR-740 only)	Room Kit	Rock Kit	Electronic Kit	Analog Kit
	13	C#-1	Surdo Mute	<		<	<	<	<
	14	D-1	Surdo Open	<	<	<	<	<	<
-	15	D#-1	Hi Q	<	<	<	<	<	<
	16 17	E-1 F-1	Whip Slap	<	<	<	<	<	<
	18	F#-1	Scratch Push Scratch Pull	<		<			
-	19	G-1	Finger Snap	<	<	<	<	<	<
+	20	G#-1	Click Noise				<	<u><</u>	
i	21	A-1	Metronome Click			<	< <u> </u>		
i	22	A#-1	Metronome Bell	<		<	<	<	<
i	23	B-1	Seq Click L	<		<	<	<	<
~	24	C0	Seq Click H	<			<	<	
C1 C#1	25	C#0	Brush Tap	<	<	<	<	<	<
D1	26	D0	Brush Swirl	<	<	<	<	<	<
D#1	27	D#0	Brush Slap	<	<	<	<	<	<
E1	28	E0	Brush Tap Swirl	<	<		<	Reverse Cymbal	Reverse Cymbal
F1	29	F0	Snare Roll	<	<		<	<	<
F#1	30	F#0	Castanet	\		Ų.	<	Hi Q 2	Hi Q 2
G1	31	G0	Snare H Soft	Snare H Soft 2	Snare Electro	<	SD Rock H	Snare L	SD Rock H
G#1	32	G#0	Sticks	<	<		<	<	<
A1	33	A0	Bass Drum Soft	<	BD Hard L	-	<	Bass Drum H	Bass Drum H
B1 A#1	34	A#0	Open Rim Shot	Open Rim Shot 2	Snare Pitched	-	<	<	<
DΊ	35	B0	Bass Drum Hard	<	BD Wet	<	Bass Drum H	BD Rock	BD Analog L
C2	36	C1	Bass Drum	Bass Drum 2	BD Hard H	<	BD Rock	BD Gate	BD Analog H
C#2	37	C#1	Side Stick	<	Stick Ambient	<	<	<	Analog Side Stick
D2	38	D1	Snare M	Snare M 2	Snare Ambient	SD Room L	SD Rock L	SD Rock L	Analog Snare 1
E2 D#2	39	D#1	Hand Clap	<	Caora H Hord 2	<	<	<	Analog Chara 2
t	40	E1	Snare H Hard	<	Snare H Hard 2	SD Room H	SD Rock Rim	SD Rock H	Analog Snare 2
F2 F#2	41 42	F1 F#1	Floor Tom L Hi-Hat Closed	<	Hybrid Tom 1	Room Tom 1	Rock Tom 1	E Tom 1	Analog Tom 1 Analog HH Closed 1
G2 F#Z	43	G1	Floor Tom H		Hi-Hat Closed Hybrid Tom 2	Room Tom 2	Rock Tom 2	E Tom 2	Analog Tom 2
G2 G#2	44	G#1	Hi-Hat Pedal	<	Hi-Hat Pedal	<	<	<	Analog HH Closed 2
A2	45	A1	Low Tom		Hybrid Tom 3	Room Tom 3	Rock Tom 3	E Tom 3	Analog Tom 3
Λ#2	46	A#1	Hi-Hat Open		Hi-Hat Open	<	<	<	Analog HH Open
B2	47	B1	Mid Tom L	<u><</u>	Hybrid Tom 4	Room Tom 4	Rock Tom 4	E Tom 4	Analog Tim Open Analog Tom 4
	48	C2	Mid Tom H		Hybrid Tom 5	Room Tom 5	Rock Tom 5	E Tom 5	Analog Tom 5
C3 C#3	49	C#2	Crash Cymbal 1	<	<	< 	<	<	Analog Cymbal
D3	50	D2	High Tom	<	Hybrid Tom 6	Room Tom 6	Rock Tom 6	E Tom 6	Analog Tom 6
D#2	51	D#2	Ride Cymbal 1	<	<	<	<	<	<
E3	52	E2	Chinese Cymbal	<	<	<	<	<	<
F3	53	F2	Ride Cymbal Cup	\	<	Ļ	<	<	<
F#3	54	F#2	Tambourine	<	Tambourine Light		<	<	<
G3	55	G2	Splash Cymbal	<	<		<	<	<
G#3	56	G#2	Cowbell	<	<	<	<	<	Analog Cowbell
A3	57	A2	Crash Cymbal 2	<	<		<	<	<
B3 A#3	58	A#2	Vibraslap	<	<	<	<	<	<
D3	59	B2	Ride Cymbal 2	<	<	<	<	<	<
C4	60	C3	Bongo H	<	<	<	<	<	<
C#4	61	C#3	Bongo L	<	<	<	<	<	<
D4	62	D3 D#3	Conga H Mute	<	<	<	<	<	Analog Conga H
E4 D#4	63 64	E3	Conga H Open Conga L	<	<	<	<	<	Analog Conga M Analog Conga L
	65	F3	Timbale H	<	<—	<	<	<	<
F4 F#4	66	F#3	Timbale L	<	←	<	<	<	<
G4	67	G3	Agogo H				<		
G#4	68	G#3	Agogo L		<	<	<	<	<
A4	69	A3	Cabasa		<	<			<
Λ# <i>1</i>	70	A#3	Maracas	<	<	<	<	<	Analog Maracas
B4	71	B3	Samba Whistle H	<	<	<	<	<	<
C5	72	C4	Samba Whistle L	<	<	-	<	<	<
C#5	73	C#4	Guiro Short	<	<		<	<	<
D5	74	D4	Guiro Long	<	<	\	<	<	<
D#5	75	D#4	Claves	<	<	<	<	<	Analog Claves
E5	76	E4	Wood Block H	<		Ļ	<	<	<
F5	77	F4	Wood Block L	<	<		<	<	<
F#5	78	F#4	Cuica Mute	<	<	<	<	Scratch Push	Scratch Push
G5	79	G4	Cuica Open	<	<	<	<	Scratch Pull	Scratch Pull
	80	G#4	Triangle Mute	<	<	<	<	<	<
G#5	81	A4	Triangle Open	<	<	<	<	<	<
A5		A#4 B4	Shaker	<	<	<	<	<	<
A5	82		Jingle Bell	<	<	<	<	<	<
A5 A#5	83				<	<	<	<	<
A5	83 84	C5	Bell Tree	<					
A5 A#5	83 84 85	C5 C#5							
A5 A#5	83 84 85 86	C5 C#5 D5		<					
A5 A#5	83 84 85 86 87	C5 C#5 D5 D#5		<					
A5 A#5	83 84 85 86 87 88	C5 C#5 D5 D#5 E5		<u> </u>					
A5 A#5	83 84 85 86 87 88 89	C5 C#5 D5 D#5 E5 F5		<u></u>					
A5 A#5	83 84 85 86 87 88	C5 C#5 D5 D#5 E5							

		MSB	127	127	127	127	126	126
		LSB	0	0	0	0	0	0
		Number	27	32	40	48	0	1
	Note #	Note	Dance Kit	Jazz Kit	Brush Kit	Symphonic Kit	SFX Kit 1	SFX Kit 2
	13	C#-1	<	<	<	<		
	14	D-1	<	<	<	<		
	15	D#-1	<	<	<	<		
	16	E-1	<	<	<	<		
	17	F-1	<	<	<	<		
	18	F#-1	<	<	<	<		
	19	G-1	<	<	<			
	20	G#-1						
			<	<	<	<		
	21	A-1	<	<	<	<		
	22	A#-1	<	<	<	<		
	23	B-1	<	<	<	<		
	24	C0	<	<	<	<		
1	25	C#0	<	<	<	<		
	26	D0	<	<	<	<		
‡1	27	D#0	<	<	<	<		
_	28	E0	Reverse Cymbal	<	<	<		
	29	F0	<	<	<	<		
1	30	F#0	Hi Q 2	<		\ <u></u>		+
41								+
	31	G0	AnSD Snappy	SD Jazz H Light	Brush Slap L	<		+
#1	32	G#0	<	<	<	<		
	33	A0	AnBD Dance-1	<	<	Bass Drum L		
1	34	A#0	AnSD OpenRim	<	<	<		
\neg	35	B0	AnBD Dance-2	<	<	Gran Cassa		
\neg	36	C1	AnBD Dance-3	BD Jazz	BD Jazz	Gran Cassa Mute	Cutting Noise	Phone Call
2	37	C#1	Analog Side Stick	<	<	<	Cutting Noise 2	Door Squeak
	38	D1	AnSD Q	SD Jazz L	Brush Slap	Marching Sn M	J J	Door Slam
2	39	D#1	<	<	<	<	String Slap	Scratch Cut
-	40	E1	AnSD Ana+Acoustic	SD Jazz M	Brush Tap	Marching Sn H	July Olap	Scratch
\dashv	41	F1	Analog Tom 1	<	Brush Tom 1	<		Wind Chime
2	42	F#1	Analog HH Closed 3	<	<	<		Telephone Ring
74								relephone Kin
	43	G1	Analog Tom 2	<	Brush Tom 2	<		
#2	44	G#1	Analog HH Closed 4	<	<	<		
	45	A1	Analog Tom 3	<	Brush Tom 3	<		
2	46	A#1	Analog HH Open 2	<	<	<		
	47	B1	Analog Tom 4	<	Brush Tom 4	<		
	48	C2	Analog Tom 5	<	Brush Tom 5	<		
‡3	49	C#2	Analog Cymbal	<	<	Hand Cym. L		
_	50	D2	Analog Tom 6		Brush Tom 6	<		
40	51	D#2				Hand Cym.Short L		
‡3			<		<		Flore Key Oliele	Car Fasina Inc
-	52	E2	<	<	<	<	Flute Key Click	Car Engine Igr
_	53	F2	<	<	<	<		Car Tires Sque
3	54	F#2	<	<	<	<		Car Passing
	55	G2	<	<	<	<		Car Crash
#3	56	G#2	Analog Cowbell	<	<	<		Siren
	57	A2	<	<	<	Hand Cym. H		Train
‡3	58	A#2	<	<	<	<		Jet Plane
	59	B2	<	<	<	Hand Cym.Short H		Starship
-	60	C3	<	<	<	<		Burst
4	61		<	<	<			
42		C#3				<		Roller Coaster
	62	D3	Analog Conga H	<	<			Submarine
4	63	D#3	Analog Conga M	<	<	<		
	64	E3	Analog Conga L	<	<	<		1
	65	F3	<	<	<	<		
4	66	F#3		<	<	<		
	67	G3	<	<	<	<		
#4	68	G#3	<	<	<	<	Shower	Laugh
	69	A3	<	<		<	Thunder	Scream
4	70	A#3	Analog Maracas	<		←	Wind	Punch
-	71	B3	<		<u> </u>		Stream	Heartbeat
-				<				
17.0	72	C4	<	<	<	<	Bubble	FootSteps
‡5	73	C#4	<	<	<	<	Feed	+
	74	D4	<	<	<	<		
‡5	75	D#4	Analog Claves	<	<	<		
	76	E4	<	<	<	<		
_]	77	F4	<	<	<	<		
5	78	F#4	Scratch Push	<	<	<		
	79	G4	Scratch Pull		<	<		
# 5	80	G#4	<	<	<	<		
	81	A4	<	<	<			
‡5	82	A#4	<					1
O				<	<	<		
\dashv	83	B4	<	<	<	<	Des	Maskinson
	84	C5	<	<	<	<	Dog	Machine Gun
	85	C#5			1		Horse	Laser Gun
	86	D5			1		Bird Tweet 2	Explosion
	87	D#5						Firework
	88	E5						
	89	F5						
							Ghost	
	90	F#5						

Style List

Style	
Number	Style Name
	8BEAT
1	8Beat 1
3	8Beat 2 8Beat Adria
4	8Beat Pop 1
5	8Beat Pop 2
6	British Pop
7	8Beat Rock
8	8Beat Soft
9	8Beat 3
10	16BEAT 16Beat 1
11	16Beat 2
12	16Beat 3
13	16Beat 4
14	16Beat 5
15	Soft Fusion
16	Hip Hop Pop
17 18	16Beat Funk Funky Pop
19	80's Fusion
20	Jazz Rock
21	Fusion Shuffle
22	16Beat 6
	8BEAT BALLAD
23	Piano Ballad
24 25	U.S. Ballad Slow Rock 1
26	Slow Rock 2
27	Modern 6/8
28	Guitar Ballad
29	Organ Ballad
30	Blues Ballad
31	Epic Ballad
32	16BEAT BALLAD 16Beat Ballad 1
33	16Beat Ballad 2
34	Rock Ballad
35	Slow Ballad
36	Analog Pop
37	Pop Ballad 1
38 39	Pop Ballad 2 Cool Night
40	Pop Ballad 3
10	ROCK
41	Rock 1
42	Hard Rock
43	Rock & Roll 1
44	Rock Shuffle
45 46	Twist 1 4/4 Blues
46	Rock 2
48	8Beat Heat
49	Rock & Roll 2
50	Twist 2
51	Blues Rock
52	6/8 Rock
53	DANCEFLOOR Clubdance
54	Techno
55	Entrance
56	Eurobeat
57	Trance 1
58	Trance 2
59	Cool Dance
60 61	Funky Trip Hop House
62	House Handbag
63	Tip
	• • •

0: •		
Style Number	Style Name	
	DISCO	
64	70's Disco	
65	90's Disco	
66 67	Disco Soul Miami Pop	
68	Disco Tropic	
69	Disco Hands	
70	Electro Pop	
<u>,</u>	SWING & JAZZ	
71	Swing 1	
72	Big Band 1	
73 74	Big Band Ballad Jazz Ballad	
75	Jazz Trio	
76	Boogie 1	
77	Dixieland 1	
78	Big Band Boogie	
79	Gypsy Swing	
80	Bebop	
81	Swing 2	
82	Big Band 2	
83 84	Boogie 2 Dixieland 2	
04	R & B	
85	Gospel Shuffle	
86	R & B 1	
87	Motown	
88	Soul	
89	Soul Shuffle	
90	R & B 2	
91	6/8 Blues COUNTRY	
92	Country Rock	
93	Country 8Beat	
94	Country Pop	
95	Country Shuffle	
96	Country Swing	
97	Bluegrass	
98	Country Ballad	
99	Two Step	
100	Cowboy Boogie Hoedown	
101	LATIN	
102	Samba Rio	
103	Bossa Nova 1	
104	Bossa Nova 2	
105	Reggae	
106	Swing Reggae	
107	Guitar Rhumba	
108	Guitar Bossa	
109 110	Salsa Mambo	
111	Jazz Samba	
112	Pop Bossa 1	
113	Pop Bossa 2	
114	Pop Reggae	
115	Pop Cha Cha	
	BALLROOM	
116	Slow Fox	
117	Quickstep	
118 119	Tango Cha Cha Cha	
120	Samba 1	
121	Rhumba	
122	Pasodoble	
123	Jive	
124	Beguine 1	
125	Foxtrot	

Style Number	Style Name
	TRADITIONAL
126	U.S. March
127	German March
128	6/8 March
129	Polka
130	Polka Pop 1
131	Polka Pop 2
132	Polka Oberkrainer
133	Tarantella
134	Hully Gully
	WALTZ
135	Pop Waltz
136	Jazz Waltz 1
137	Country Waltz
138	Vienna Waltz
139	Slow Waltz 1
140	Orch. Waltz
141	Waltz Oberkrainer
142	Musette
143	Guitar Waltz
	PIANIST
144	Stride
145	Boogie 3
146	Swing 3
147	Pianoman
148	8Beat 4
149	Ballad 1
150	Ballad 2
151	6/8 Ballad
152	Ragtime
153	March
154	6/8 March
155	Bossa Nova 3
156	Beguine 2
157	Samba 2
158	Waltz
159	Slow Waltz 2
160	Jazz Waltz 2

Multi Pad Bank List

Bank name		Chord Match				Repeat		
	Pad1	Pad2	Pad3	Pad4	Pad1	Pad2	Pad3	Pad4
Fanfare	0	0	0	_	_	_	_	_
Crystal	0	0	0	0	_	_	_	_
Gothic_V	0	0	0	0	-	-	-	_
TechSyn1	0	0	0	0	0	0	0	0
TechSyn2	0	0	0	0	0	0	0	0
TechSyn3	0	0	-	-	0	0	0	0
TechSyn4	0	0	-	-	0	0	0	0
PianoSeq	0	0	0	0	-	-	-	-
OrcheHit	0	0	0	0	-	-	-	_
Traffic	_	-	-	-	_	-	-	-
Chirp	-	-	-	-	-	-	-	-
HorrorSE	_	_	_	_	_	_	_	_
Noises	_	_	-	_	_	-	-	_
WaterSE	-	-	-	-	-	-	-	_
AnalogKit	_	_	_	_	_	_	_	_
TechKit	_	_	_	_	_	_	-	_
RockKit	_	_	_	_	_	_	_	_
TomFlam	_	_	-	_	_	-	-	_
LatinPerc1	-	-	-	-	-	-	-	-
LatinPerc2	_	-	-	-	_	-	-	-
Brassy1	0	0	0	0	_	_	_	_
Brassy2	0	0	0	0	_	_	-	_
Swingy	0	0	0	0	0	0	0	0
SynBrass	0	0	0	0	_	-	-	_
GuitarPlay1	0	0	0	0	0	0	0	0
GuitarPlay2	0	0	0	0	0	0	0	0
GuitarPlay3	0	0	0	0	0	0	0	0
GuitarPlay4	0	0	0	0	0	0	0	0
PianoMan	0	0	0	0	0	0	0	-
SalsaPiano	0	0	0	0	0	0	0	0
SambaShow	_	-	-	-	0	0	0	0
Accordion	0	0	0	0	_	-	-	-
Arpeggio	0	0	0	0	-	-	-	-
Classic	0	0	0	0	_	-	-	-
Twinkle	0	0	0	0	_	-	-	-
TimbalesRoll	-	-	-	-	-	-	-	-

O : available

There are two types of Multi Pad data: some types will play back once and stop when they reach to the end. Others will play back repeatedly until you press the [STOP] button.

■ PSR-740

Reverb (System effect)

Reverb effect type/depth can be set by panel operation.

When you select a different style, the appropriate reverb type will be selected accordingly.

Chorus (System effect)

Chorus effect type/depth can be set by panel operation.

When you select a different style, the appropriate chorus type will be selected accordingly.

DSP (System/Insertion effect)

DSP effect type/depth can be set by a panel operation in the Style record mode.

When you select a different style, the appropriate chorus type will be selected accordingly.

DSP1 - 3 (Insertion effect)

The PSR-740 has a multi effect system featuring three separate DSP effect blocks.

Multi effect on/off status, type and depth can be set by panel operation.

DSP4

DSP4 is the effect for the microphone sound.

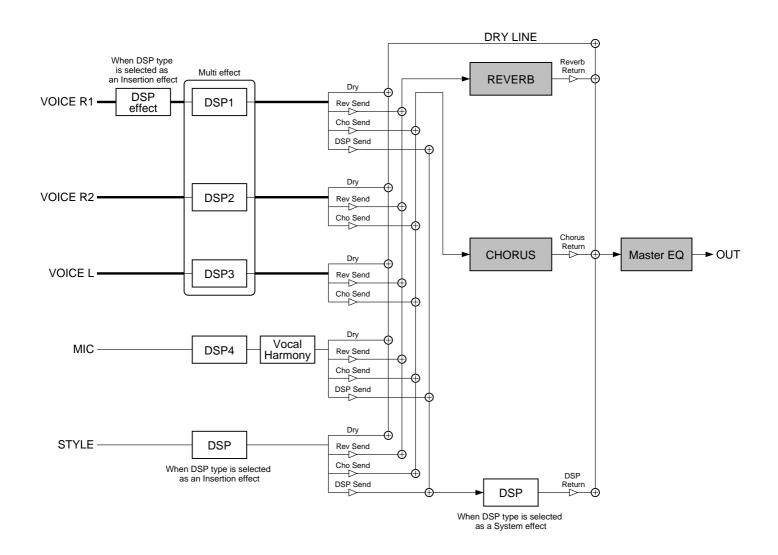
DSP4 effect on/off status, type and depth can be set by panel operation.

Master EQ

Master EQ on/off status, type and depth can be set by panel operation.

NOTE

 Although not all the effect settings cannot be made by operating the PSR-740 panel manually, some of them may be accessible through MIDI. Refer to the MIDI data format for details.



■ PSR-640

Reverb (System effect)

Reverb effect type/depth can be set by panel operation.

When you select a different style, the appropriate reverb type will be selected accordingly.

Chorus (System effect)

Chorus effect type/depth can be set by panel operation.

When you select a different style, the appropriate chorus type will be selected accordingly.

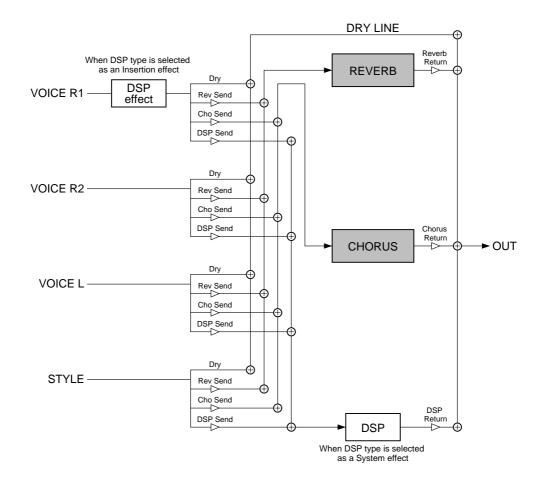
● DSP (System/Insertion effect)

DSP effect on/off status, type and depth can be set by panel operation.

DSP effect will function as either System or Insertion effect. Whether DSP effect is System or Insertion depends on the selected type. DSP effect configuration will differ between System and Insertion effects as follows:

NOTE /

 Although not all the effect settings cannot be made by operating the PSR-640 panel manually, some of them may be accessible through MIDI. Refer to the MIDI data format for details.



● Reverb Type List (PSR-740/640)

Reverb Type	System/Insertion	Description	
Hall1-5	System	Concert hall reverb.	
Room1-7	System	Small room reverb.	
Stage1-4	System	Reverb for solo instruments.	
Plate1-3	System	Simulated steel plate reverb.	
White Room	System	A unique short reverb with a bit of initial delay.	
Tunnel	System	Simulation of a tunnel space expanding to left and right.	
Canyon	System	A hypothetical acoustic space which extends without limit.	
Basement	System	A bit of initial delay followed by reverb with a unique resonance.	
No Effect	_	No effect.	

● Chorus Type List (PSR-740/640)

	•	
Chorus Type	System/Insertion	Description
Chorus1-8	System	Conventional chorus program with rich, warm chorusing.
Celeste1, 2	System	A 3-phase LFO adds modulation and spaciousness to the sound.
Flanger1-5	System	Pronounced three-phase modulation with slight metallic sound.
Symphonic1, 2	System	A multi-phase version of Celeste. (PSR-740)
Phaser	System	Pronounced, metallic modulation with periodic phase change. (PSR-740)
Ensemble Detune	System	Chorus effect without modulation, created by adding a slightly pitch-shifted sound. (PSR-740)
No Effect	_	No effect.

● DSP Type List (PSR-640)

DSPType	System/Insertion	Description
Hall1-5	System	Concert hall reverb.
Room1-7	System	Small room reverb.
Stage1-4	System	Reverb for solo instruments.
Plate1-3	System	Simulated steel plate reverb.
Delay Left - Center - Right1, 2	System	Three independent delays, for the left, right and center stereo positions.
Delay Left - Right	System	Initial delay for each stereo channel, and two separate feedback delays.
Echo	System	Stereo delay, with independent feedback level settings for each channel.
Cross Delay	System	Complex effect that sends the delayed repeats "bouncing" between the left and right channels.
ER1, 2	System	This effect isolates only the early reflection components of the reverb.
Gate Reverb	System	Gated reverb effect, in which the reverberation is quickly cut off for special effects.
Reverse Gate	System	Similar to Gate Reverb, but with a reverse increase in reverb.
Karaoke1-3	System	A delay with feedback of the same types as used for karaoke reverb.
Chorus1-8	System	Conventional chorus program with rich, warm chorusing.
Celeste1, 2	System	A 3-phase LFO adds modulation and spaciousness to the sound.
Flanger1-5	System	Pronounced three-phase modulation with slight metallic sound.
Symphonic1, 2	System	A multi-phase version of Celeste.
Rotary Speaker1-6	Insertion	Rotary speaker simulation.
Tremolo1-3	Insertion	Rich Tremolo effect with both volume and pitch modulation.
Guitar Tremolo	Insertion	Simulated electric guitar tremolo.
Auto Pan1, 2	Insertion	Several panning effects that automatically shift the sound position (left, right, front, back).
Phaser1, 2	System	Pronounced, metallic modulation with periodic phase change.
Distortion Hard	Insertion	Hard-edge distortion.
Distortion Soft	Insertion	Soft, warm distortion.
Distortion Heavy	Insertion	Heavy distortion.
Overdrive	Insertion	Adds mild distortion to the sound.
Amp Simulator	Insertion	A simulation of a guitar amp.
EQ Disco	Insertion	Equalizer effect that boosts both high and low frequencies, as is typical in most disco music.
EQ Telephone	Insertion	Equalizer effect that cuts both high and low frequencies, to simulate the sound heard through a telephone receiver.
3Band EQ (MONO)	Insertion	A mono EQ with adjustable LOW, MID, and HIGH equalizing.
2Band EQ (STEREO) Insertion	A stereo EQ with adjustable LOW and HIGH. Ideal for drum Parts.
Auto Wah1, 2	Insertion	Cyclically modulates the center frequency of a wah filter.
No Effect	_	No effect.
Through	_	Bypass without applying an effect.

● DSP Type List (PSR-740)

	System/Insertion	Description
Hall1-5	System	Concert hall reverb.
Room1-7	System	Small room reverb.
Stage1-4	System	Reverb for solo instruments.
Plate1-3	System	Simulated steel plate reverb.
Delay Left - Center - Right1, 2	System	Three independent delays, for the left, right and center stereo positions.
Delay Left - Right	System	Initial delay for each stereo channel, and two separate feedback delays.
Echo	System	Stereo delay, with independent feedback level settings for each channel.
Cross Delay	System	Complex effect that sends the delayed repeats "bouncing" between the left and right channels.
ER1, 2	System	This effect isolates only the early reflection components of the reverb.
Gate Reverb	System	Gated reverb effect, in which the reverberation is quickly cut off for special effects.
Reverb Gate	System	Similar to Gate Reverb, but with a reverse increase in reverb.
White Room	System	A unique short reverb with a bit of initial delay.
Tunnel	System	Simulation of a tunnel space expanding to left and right.
Canyon	System	A hypothetical acoustic space which extends without limit.
Basement	System	A bit of initial delay followed by reverb with a unique resonance.
Karaoke1-3	System	A delay with feedback of the same types as used for karaoke reverb.
Chorus1-8	System	Conventional chorus program with rich, warm chorusing.
Celeste1, 2	System	A 3-phase LFO adds modulation and spaciousness to the sound.
Flanger1-5	System	Pronounced three-phase modulation with slight metallic sound.
Symphonic1, 2	System	A multi-phase version of Celeste.
Rotary Speaker 1-6	System	Rotary speaker simulation.
2way Rotary Speaker	r System	Rotary speaker simulation.
Tremolo1-3	System	Rich Tremolo effect with both volume and pitch modulation.
Guitar Tremolo	System	Simulated electric guitar tremolo.
Auto Pan1, 2	System	Several panning effects that automatically shift the sound position (left, right, front, back).
Phaser 1, 2	System	Pronounced, metallic modulation with periodic phase change.
Distortion Hard	System	Hard-edge distortion.
Distortion Soft	System	Soft, warm distortion.
Distortion Heavy	System	Heavy distortion.
Overdrive	System	Adds mild distortion to the sound.
Comp + Distortion	System	Since a Compressor is included in the first stage, steady distortion can be produced regardless of changes in input level.
Amp Simulator	System	A simulation of a guitar amp.
EQ Disco	System	Equalizer effect that boosts both high and low frequencies, as is typical in most disco music.
EQ Telephone	System	Equalizer effect that cuts both high and low frequencies, to simulate the sound heard through a telephone receiver.
3Band EQ (MONO)	System	A mono EQ with adjustable LOW, MID, and HIGH equalizing.
2Band EQ (STEREO		A stereo EQ with adjustable LOW and HIGH. Ideal for drum Parts.
Auto Wah1, 2	System	Cyclically modulates the center frequency of a wah filter.
Touch Wah1, 2	System	Changes the center frequency of a wah filter according to the input level.
AWah+Distortion	System	The output of an Auto Wah can be distorted by Distortion.
AWah+Overdrive	System	The output of an Auto Wah can be distorted by Overdrive.
HarmonicEnhancer	System	This effect adds new overtones to the input signal to make the sound stand out.
TWah+Distortion	System	The output of a Touch Wah can be distorted by Distortion.
TWah+Overdrive	System	The output of a Touch Wah can be distorted by Overdrive.
Compressor	System	Holds down the output level when a specified input level is exceeded. A sense of attack can also be added to the sound.
Noise Gate	System	Gates the input when the input signal falls below a specified level.
Pitch change 1, 2	System	Changes the pitch of the input signal.
Voice Cancel	System	Attenuates the vocal part of a CD or other source.
Ensemble Detune	System	Chorus effect without modulation, created by adding a slightly pitch-shifted sound.
Ambience	System	Blurs the stereo positioning of the sound to add spatial width.
Talking Modulator	System	Talking Modulator.
Lo-Fi	System	Degrades the audio quality of the input signal.
Distortion+Delay	System	DISTORTION and DELAY are connected in series.
Overdrive+Delay	System	OVERDRIVE and DELAY are connected in series.
Comp+Dist+Delay	System	COMPRESSOR, DISTORTION and DELAY are connected in series.
Comp+OD+Delay	System	COMPRESSOR, OVERDRIVE and DELAY are connected in series.
Wah+Dist+Delay	System	TOUCH WAH, DISTORTION and DELAY are connected in series.
Wah+OD+Delay	System	TOUCH WAH, OVERDRIVE and DELAY are connected in series.
No Effect	_	No effect.
Through	_	Bypass without applying an effect.
~ ~ 9.1		-7Fov. abbi)a a aa

● DSP 1-4 Type List (PSR-740)

DSP Type	System/Insertion	Description
Hall1-5	Insertion	Concert hall reverb.
Room1-7	Insertion	Small room reverb.
Stage1-4	Insertion	Reverb for solo instruments.
Plate1-3	Insertion	Simulated steel plate reverb.
Delay Left - Center -	Insertion	Three independent delays, for the left, right and center stereo positions.
Right1, 2	Lancard's an	1.22-1 dates for each store above to add the account for the eligible.
Delay Left - Right	Insertion	Initial delay for each stereo channel, and two separate feedback delays.
Echo	Insertion	Stereo delay, with independent feedback level settings for each channel.
Cross Delay	Insertion	Complex effect that sends the delayed repeats "bouncing" between the left and right channels.
Karaoke1-3	Insertion	A delay with feedback of the same types as used for karaoke reverb.
Chorus1-8	Insertion	Conventional chorus program with rich, warm chorusing.
Celeste1, 2	Insertion	A 3-phase LFO adds modulation and spaciousness to the sound.
Flanger1-5	Insertion	Pronounced three-phase modulation with slight metallic sound.
Symphonic1, 2	Insertion	A multi-phase version of Celeste.
Rotary Speaker 1-6	Insertion	Rotary speaker simulation.
Tremolo1-3	Insertion	Rich Tremolo effect with both volume and pitch modulation.
Guitar Tremolo	Insertion	Simulated electric guitar tremolo.
Auto Pan1, 2	Insertion	Several panning effects that automatically shift the sound position (left, right, front, back).
Phaser	Insertion	Pronounced, metallic modulation with periodic phase change.
Distortion Hard	Insertion	Hard-edge distortion.
Distortion Soft	Insertion	Soft, warm distortion.
Distortion Heavy	Insertion	Heavy distortion.
Overdrive	Insertion	Adds mild distortion to the sound.
Amp Simulator	Insertion	A simulation of a guitar amp.
EQ Disco	Insertion	Equalizer effect that boosts both high and low frequencies, as is typical in most disco music.
EQ Telephone	Insertion	Equalizer effect that cuts both high and low frequencies, to simulate the sound heard through a telephone receiver.
3Band EQ (MONO)	Insertion	A mono EQ with adjustable LOW, MID, and HIGH equalizing.
2Band EQ (STEREO		A stereo EQ with adjustable LOW and HIGH. Ideal for drum Parts.
Auto Wah1, 2	Insertion	Cyclically modulates the center frequency of a wah filter.
HarmonicEnhancer	Insertion	This effect adds new overtones to the input signal to make the sound stand out.
Touch Wah1, 2	Insertion	Changes the center frequency of a wah filter according to the input level.
Compressor	Insertion	Holds down the output level when a specified input level is exceeded. A sense of attack can also
Comprodo	moordon	be added to the sound.
Noise Gate	Insertion	Gates the input when the input signal falls below a specified level.
Ensemble Detune	Insertion	Chorus effect without modulation, created by adding a slightly pitch-shifted sound.
Through		Bypass without applying an effect.

Harmony/Echo Type List

Category	Туре	Description
Harmony	Duet	An extra note is added to the note played on the keyboard to produce duet type harmony.
	1+5	A parallel voice is produced a fifth above the note played on the keyboard.
	Country	One note is added above the note played on the keyboard for a country-style harmony feel.
	Trio	Two notes are added below the note played on the keyboard for three-part harmony.
	Block	Three or four notes are added to the note played on the keyboard to produce four or five- note chords.
	4Way Close1	Three harmony notes are generated to produce a four-note chord.
	4Way Close2	Similar to the preceding type, but depending on the chords played this type will sometimes produce a more colorful sound.
	4Way Open	Four-note chords with open voice (large intervals between the notes). The result is a very "open" sound. Since the harmony notes can be as much as two octaves below the note played on the keyboard, avoid playing in the lower registers.
	Octave	One note is added an octave below the note played on the keyboard.
	Strum	The notes and assignments are the same as in the Block type, but the notes are arpeggiated.
Echo	Echo 1/4	An echo effect is applied to the note played on the keyboard at the currently set tempo.
	Echo 1/6	
	Echo 1/8	
	Echo 1/12	
Tremolo	Tremolo 1/8	A tremolo effect is applied to the note played on the keyboard at the currently set tempo.
	Tremolo 1/12	
	Tremolo 1/16	
	Tremolo 1/32	
Trill	Trill 1/12	Two notes played on the keyboard are played alternately at the currently set tempo.
	Trill 1/16	
	Trill 1/24	
	Trill 1/32	

Vocal Harmony Type List (PSR-740)

Standard Duet
Girl In Duet
Lisa & Tina
Sing B+G
Dream Girls
Men Choir
Women Choir
Closed Choir
Mixed Choir
Country Men
Country Girls
Barber Shop
Jazz Men Choir
Jazz Women Choir
Jazz Closed Choir
Jazz Mixed Choir
Diatonic Jazz
Diatonic Girl
A Cappella Boy
A Cappella Mix
A Cappella Diatonic
Falsetto Duet
Falsetto Trio
Falsetto Diatonic
Falsetto Jazz
Falsetto A Cappella
2 Unison Low
2 Unison High
3 Unison Low
3 Unison High
Voice & Instrument
Chordal XG
Vocoder Auto Up
Vocoder Auto Lo
Vocoder Mode Up
Vocoder Mode Lo
Vocoder Girl Up
Vocoder Girrl Lo
Vocoder Pitch Up
Vocoder Pitch Lo

Karaoke Auto
Karaoke Mode
Karaoke Girl
Karaoke Pitch
Vocoder XG
Sing Bass
Speedy Mouse
Chromatic XG
Detune XG
Thru

Data Backup & Initialization

■ Data Backup

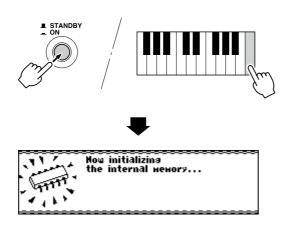
Except for the data listed below, all PSR-740/640 panel settings are reset to their initial settings whenever the power is turned on. The data listed below are backed up — i.e. retained in memory — as long as an AC adaptor is connected.

User Style data User Pad data Registration Memory data Registration Memory Bank Number Registration Memory/One Touch Setting status Freeze on/off MIDI Transmit settings MIDI Receive settings Voice Set on/off Voice L (Voice Change, Mixer, Parameter Edit) Organ Flutes settings (PSR-740) Vocal Harmony settings (PSR-740) Talk setting (PSR-740)	page 106 page 62 page 64 page 63 page 130 page 131 page 136 page 88 page 82 page 88
Talk setting (PSR-740) Master EQ settings (PSR-740)	page 86 page 59

Fingering mode	page 40
Split Point	
Sustain on/off	page 31
Part Octave setting	page 135
Pitch Bend Range	
• Modulation wheel function (PSR-740)	page 30
Scale Tuning	
Transpose	
Footswitch function, Polarity	page 137
Foot Volume function, Polarity	
Touch on/off, Sensitivity	
Multi Pad setting	page 48
Master Tuning	
Metronome on/off	

■ Data Initialization

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



⚠ CAUTION

- All registration and User Style/Pad memory data, plus the other 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 PSR-740/640 freezes or begins to act erratically for any reason.

Alert Message List

The disk contains no file to be loaded, copied, or be deleted. No file on disk! Insert the disk that contains files to be loaded, copied, or deleted. Insert another disk. An unformatted disk is inserted. **Unformatted disk!** An error occurred during execution of a disk operation. Disk error! Try changing the disk. This message also may appear when executing the Load operation if the internal memory becomes full. The floppy disk's write-protect tab is set to ON. Disk write-protected! Remove the disk, set write-protect to off, reinsert the disk and attempt the operation again. The file is a purposely "copy-protected" disk. Disk file protected! The Copy function is not possible. Can't copy or record this file. There is no floppy disk inserted into the disk drive. No disk! Insert a disk. Insert a disk. An error occured because the disk was removed during a disk operation. Disk removed! Never remove a disk during a disk operation since this could damage both the disk and the drive. The disk's memory capacity is full and no additional data can be recorded. Disk full! Delete one or more unneeded songs (using Delete), and attempt the Cannot continue. operation again. When using the Copy operation, the inserted disk is different from the Wrong disk! source or destination disk. Reinsert Remove the disk and reinsert the proper Disk. the proper disk. More than one file has the same name on the disk. Same name on disk! Change the name. Change the file name. Maximum of 60 songs can be recorded. Cannot record! Delete one or more unneeded songs (using Delete), and attempt the song Maximum of 60 songs recording again. can be recorded. If the internal memory becomes full during Style/Pad recording, this Memory full! message will appear on the display and recording will stop. Cannot continue. This message appears when executing the Quantize or Recording opera-

tions (in the Style Recording mode) when the internal memory is full.

Memory full!

Clear unnecessary data.

This message appears when you attempt to edit, quantize or clear the Data not found! track which contains no data in the Record mode. This message indicates that recording a new User style cannot be started User style full! when all three User styles have recorded data. Make sure to clear at least one of the three User styles before recording a new User style. This message appears when you attempt to edit or quantize the track Cannot quantize the (other than RHYTHM) which contains preset data in the Style Record preset data. mode. This function cannot be used during Song/Style/Pad recording. **Cannot operate** during recording. The MIDI function cannot be set during recording, playback, and disk Cannot set the MIDI operations. function during disk operations, etc. Harmony cannot be turned on during Style/Pad recording. Cannot turn harmony ON during Style/Pad recording. DSP cannot be turned on during Style/Pad recording. **Cannot turn DSP ON** during Style/Pad recording. This message appears to indicate you cannot enter the function when you Cannot enter the select Multi Pad function in the Multi Pad Recording mode. functions during Pad recording. The backup data (page 159) is faulty. Backup error! Use the data initialization function (page 159). All data can be initialized and restore to the factory preset condition by Now initializing turning the STANDBY switch ON while holding the highest (rightmost) the internal memory... white key on the keyboard. This message may appear when the Host Select switch is set appropriately Host is offline! and the serial cable is connected to the TO HOST but not to the PC's serial port (or the cable is properly connected to the PC which is currently turned off).

Troubleshooting

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 PortaTone may produce interference. To prevent this, turn off the mobile phone or use it further away from the PortaTone.
No sound results when the keyboard is played.	 The R1/R2/L voice volume (Mixer) settings could be set too low. Make sure the voice volumes are set at appropriate levels (pages 90). The Local Control function could be turned off. Make sure Local Control is turned on (page 132). Check whether the naming function of Registration Memory or song recording (page 62) is called up in the display or not. If the naming function is active, the PSR-740/640 does not produce any sound, even when the keys are played.
 Not all simultaneously-played notes sound. Auto Accompaniment seems to "skip" when the keyboard is played. 	You are probably exceeding the maximum polyphony of the PSR-740/640 . The PSR-740 can play up to 64 notes (32 notes for PSR-640) at the same time — including voice R2, voice L, auto accompaniment, song, and multi pad notes. Notes exceeding this limit will not sound.
Nothing happens or nothing seems to function, even when pressing a panel button. For example, pressing the [START] button does not start the accompaniment.	Make sure that Disk mode is engaged. In the Disk mode, no panel operations can be executed (except for disk operations). Exit from the display by pressing the [EXIT] button.
 The accompaniment or song does not play back even when pressing the [START/STOP] button. The Multi Pads do not play back, even when one of the MULTI PAD buttons is pressed. 	The MIDI Clock may be set to "EXTERNAL." Make sure it is set to "INTERNAL" (page 132).
The auto accompaniment does not start, even when Synchro Start is in standby condition and a key is pressed.	You may be trying to start accompaniment by playing a key in the right-hand range of the keyboard. To start the accompaniment with Synchro Start, make sure to play a key in the left-hand (accompaniment) range of the keyboard.
The following buttons related to the auto accompaniment do not function. [SYNC START] button [SYNC STOP] button [ACMP ON/OFF] button REGISTRATION MEMORY [FREEZE] button	Check whether the Song mode (page 25) is selected or not. When the Song mode is active, none of the auto accompaniment functions can be used.
Certain notes sound at the wrong pitch.	Make sure that the scale tuning value for those notes is set to "0" (page 135).
Auto accompaniment chords are recognized regardless of the split point or where chords are played on the keyboard.	Check whether the fingering mode is set to "Full" or not. If the Full fingering mode is selected, chords are recognized over the entire range of the keyboard, irrespective of the split point setting.
The Harmony function does not operate.	 Harmony cannot be turned on when the Full Keyboard fingering mode is selected or if a percussion kit voice is selected. Select an appropriate fingering mode or voice. Harmony cannot be turned on when a drum kit is selected for the voice R1.
MIDI data is not transmitted or received, even when MIDI cables are connected properly.	The MIDI terminals can only be used when the HOST SELECT switch is set to "MIDI." All other settings ("Mac," "PC-1" and "PC-2") are for direct transmission/reception with a computer.
If you experience distorted or out-of-tune sound from the Vocal Harmony feature, your vocal microphone may be picking up extraneous sounds (other than your voice) — the Auto Accompaniment sound from the PSR-740, for example. In particular, bass sounds can cause mistracking of the Vocal Harmony feature.	The solution to this problem is to ensure that as little extraneous sound as possible is picked up by your vocal microphone: • Sing as closely to the microphone as possible. • Use a directional microphone. • Turn down the MASTER VOLUME, ACMP volume, or SONG volume control. • Separate the microphone from the instrument's speakers as much as possible.

MIDI Data Format

Many MIDI messages listed in the MIDI Data Format are expressed in decimal numbers,

binary numbers and hexadecimal numbers.

Hexadecimal numbers may include the letter "H" as a suffix. Also, "n" can freely be defined

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

Decimal	Hexadecimal	Binary	Decimal	Hexadecimal	Binary
0	00	0000 0000	64	40	0100 0000
1	01	0000 0001	65	41	0100 0001
2	02	0000 0010	66	42	0100 0010
3	03	0000 0011	67	43	0100 0011
4	04	0000 0100	68	44	0100 0100
5	05	0000 0101	69	45	0100 0101
6	06	0000 0110	70	46	0100 0110
7	07	0000 0111	71	47	0100 0111
8	08	0000 1000	72	48	0100 1000
9	09	0000 1001	73	49	0100 1001
10	0A	0000 1010	74	4A	0100 1010
11	0B	0000 1011	75	4B	0100 1011
12	0C	0000 1100	76	4C	0100 1100
13	0D	0000 1101	77	4D	0100 1101
14	0E	0000 1101	78	4E	0100 1110
15	0F	0000 1111	79	4F	0100 1111
16	10	0001 0000	80	50	0101 0000
17	11	0001 0001	81	51	0101 0001
18	12	0001 0001	82	52	0101 0001
19	13	0001 0010	83	53	0101 0010
20	14	0001 0011	83	53	0101 0011
21	15	0001 0100	85	54	0101 0100
22	16	0001 0101	85	55	

23	17	0001 0111	87	57	0101 0111
24	18	0001 1000	88	58	0101 1000
25	19	0001 1001	89	59	0101 1001
26	1A	0001 1010	90	5A	0101 1010
27	1B	0001 1011	91	5B	0101 1011
28	1C	0001 1100	92	5C	0101 1100
29	1D	0001 1101	93	5D	0101 1101
30	1E	0001 1110	94	5E	0101 1110
31	1F	0001 1111	95	5F	0101 1111
32	20	0010 0000	96	60	0110 0000
33	21	0010 0001	97	61	0110 0001
34	22	0010 0010	98	62	0110 0010
35	23	0010 0011	99	63	0110 0011
36	24	0010 0100	100	64	0110 0100
37	25	0010 0101	101	65	0110 0101
38	26	0010 0110	102	66	0110 0110
39	27	0010 0111	103	67	0110 0111
40	28	0010 1000	104	68	0110 1000
41	29	0010 1001	105	69	0110 1001
42	2A	0010 1010	106	6A	0110 1010
43	2B	0010 1011	107	6B	0110 1011
44	2C	0010 1100	108	6C	0110 1100
45	2D	0010 1101	109	6D	0110 1101
46	2E	0010 1110	110	6E	0110 1110
47	2F	0010 1111	111	6F	0110 1111
48	30	0011 0000	112	70	0111 0000
49	31	0011 0001	113	71	0111 0001
50	32	0011 0010	114	72	0111 0010
51	33	0011 0011	115	73	0111 0011
52	34	0011 0100	116	74	0111 0100
53	35	0011 0101	117	75	0111 0101
54	36	0011 0110	118	76	0111 0110
55	37	0011 0111	119	77	0111 0111
56	38	0011 1000	120	78	0111 0111
57	39	0011 1000	121	79	0111 1000
58	3A	0011 1001	122	7A	0111 1001
59	3B	0011 1010	123	7B	0111 1010
	3B 3C	0011 1011	123	7B 7C	0111 1011
	3 C	OUTT TIOU	124	/C	0111 1100
60	25	0011 1101	105	an.	0111 1101
60 61 62	3D 3E	0011 1101 0011 1110	125 126	7D 7E	0111 1101 0111 1110

- Except the table above, for example 144-159(decimal)/9nH/1001 0000-1001 1111(binary)
- displays the Note On Message for each channel (1-16). 176-191/BnH/1011 0000-1011 1111 displays the Control Change Message for each channel (1-16).
- 192-207/CnH/1100 0000-1100 1111 displays 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.
- aaH (hexidecimal)/0aaaaaaa (binary) denotes the data address. The address contains High, Mid, and Low
- bbH/0bbbbbbb denotes the byte count.
- ccH/0cccccc denotes the check sum.
- ddH/0ddddddd denotes the data/value.

(1) TRANSMIT FLOW

MIDI ← NOTE ON/OFF	9nH
- CONTROL CHANGE BANK SELECT M BANK SELECT L DATA ENTRY MS	SB BnH,20H
DATA ENTRY LSI MUDULATION MAIN VOLUME PANPOT	
EXPRESSION SUSTAIN SOSTENUTE SOFT PEDAL	BnH,0BH BnH,40H BnH,42H BnH.43H
HARMONIC CON RELEASE TIME BRIGHTNESS REVERB SEND L	BnH,48H BnH,4AH (PSR-740 ONLY)
CHORUS SEND L VARIATION SENI NRPN LSB NRPN MSB	**
VIBRATO R VIBRATO RA RPN LSB RPN MSB	
PITCH BENI	CnH
SYSTEM EXCLUSIVE	
<universa — UNIVERSAL NON-REA <xg stand<="" td=""><td>.L> LTIME F0H 7EHF7H VARD></td></xg></universa 	.L> LTIME F0H 7EHF7H VARD>
- XG PARAMETER CHA - XG BULK DUMP	NGE F0H 43H 1nH 4CH aaH aaH aaH ddHddH F7H F0H 43H 0nH 4CH bbH bbH aaH aaH aaH ddHddH ccH F7H
SPECIAL OPERATORS SYSTEM REALTIME M	
MIDI CLOC START STOP ACTIVE SEI	K F8H FAH FCH

(2) R

(2) REC	EIVE FLOW	
MIDI—	→ NOTE OFF	8nH
	NOTE ON/OFF	9nH
	– CONTROL CHANGE BANK SELECT MSB	BnH,00H
	BANK SELECT MSB BANK SELECT LSB	BnH,20H
	MODULATION	BnH.01H
	PORTAMENTO TIME	BnH,05H
	DATA ENTRY MSB	BnH.06H
	DATA ENTRY LSB	BnH,26H
	MAIN VOLUME	BnH,07H
	PANPOT	BnH,0AH
	EXPRESSION	BnH,0BH
	SUSTAIN	BnH,40H
	PORTAMENTO	BnH,41H
	SOSTENUTO	BnH,42H
	SOFT PEDAL	BnH,43H
	HARMONIC CONTENT RELEASE TIME	BnH,47H
	ATTACK TIME	BnH,48H BnH,49H
	BRIGHTNESS	BnH,4AH
	PORTAMENTO CONTROL	BnH.54H
	REVERB SEND LEVEL	BnH,5BH
	CHORUS SEND LEVEL	BnH,5DH
	VARIATION SEND LEVEL	BnH,5EH
	DATA INCREMENT	BnH,60H
	DATA DECREMENT	BnH,61H
	NRPN LSB	BnH,62H
	NRPN MSB	BnH,63H
	VIBRATO RATE	BnH,63H,01H,62H,08H,06H,mmH
	VIBRATO DEPTH	BnH,63H,01H,62H,09H,06H,mmH
	VIBRATO DELAY	BnH,63H,01H,62H,0AH,06H,mmH
	FILTER CUTOFF FREQ. FILTER RESONANCE	BnH,63H,01H,62H,20H,06H,mmH BnH,63H,01H,62H,21H,06H,mmH
	EQ BASS	BnH,63H,01H,62H,30H,06H,mmH (PSR-740 ONLY)
	EQ TREBLE	BnH,63H,01H,62H,31H,06H,mmH (PSR-740 ONLY)
	EQ BASS FREQ	BnH,63H,01H,62H,34H,06H,mmH (PSR-740 ONLY)
	EQ TREBLE FREQ	BnH,63H,01H,62H,35H,06H,mmH (PSR-740 ONLY)
	AEG ATTACK TIME	BnH,63H,01H,62H,63H,06H,mmH
	AEG DECAY TIME	BnH,63H,01H,62H,64H,06H,mmH
	AEG RELEASE	BnH,63H,01H,62H,66H,06H,mmH
	DRUM INST	
	CUTOFF FREQ.	BnH,63H,14H,62H,rrH,06H,mmH
	FILTER RESONANCE	BnH,63H,15H,62H,rrH,06H,mmH
	AEG ATTACK RATE AEG DECAY RATE	BnH,63H,16H,62H,rrH,06H,mmH BnH,63H,17H,62H,rrH,06H,mmH

AEG DECAY RATE PITCH COARSE PITCH FINE

REVERB SEND CHORUS SEND

VARIATION SEND

LEVEL PANPOT

BnH,63H,17H,62H,rrH,06H,mmH BnH,63H,18H,62H,rrH,06H,mmH BnH,63H,19H,62H,rrH,06H,mmH

BnH,63H,1AH,62H,rrH,06H,mmH BnH,63H,1CH,62H,rrH,06H,mmH

BnH,63H,1DH,62H,rrH,06H,mmH BnH,63H,1EH,62H,rrH,06H,mmH

BnH,63H,1FH,62H,rrH,06H,mmH

VOCAL HARMON HARMONY M	
DETUNE MODU	LATION BnH,63H,01H,62H,1AH,06H,mmH (PSR-740 ONLY)
HARMONY1 V	OLUME BnH,63H,02H,62H,10H,06H,mmH (PSR-740 ONLY)
HARMONY2 V	
HARMONY1	
HARMONY2	
HARMONY1 DI	
HARMONY2 DI	
RPN LSB RPN MSB PITCH BEND SEN: FINE TUNING COARSE TUNING	BnH,64H BnH,65H S. BnH,65H,00H,64H,00H,06H,mmH BnH,65H,00H,64H,01H,06H,mmH, 26H,llH BnH,65H,00H,64H,02H,06H,mmH
NULL	BnH,65H,7FH,64H,7FH
ALL SOUND OFF RESET ALL CONTROLL	
ALL NOTES OFF OMNI OFF	BnH,7BH,00H BnH,7CH,00H
OMNI ON MONO	BnH,7DH,00H BnH,7EH
POLY	BnH,7FH
PROGRAM CHANGE	CnH
-CHANNEL AFTER TOUCH	DnH
PITCH BEND CHANGE	EnH
SYSTEM EXCLUSIVE MESSA <yamaha f<br="" midi=""><universal></universal></yamaha>	
— UNIVERSAL REALTIME — UNIVERSAL NON-REALTIM	
<xg standard=""> -XG PARAMETER CHANGE</xg>	F0H 43H 1nH 4CH aaH aaH aaH ddH
-XG BULK DUMP	ddH F7H F0H 43H 0nH 4CH bbH bbH aaH aaH aaH
- PARAMETER REQUEST - DUMP REQUEST - SPECIAL OPERATORS - Others	ddHddH ccH F7H F0H 43H 3nH 4CH aaH aaH aaH F7H F0H 43H 2nH 4CH aaH aaH aaH F7H
SYSTEM REALTIME MESSA MIDI CLOCK START	GE F8H FAH
STOP ACTIVE SENSING	FCH
NSMIT/RECEIVE DATA	
NNEL VOICE MESSAGES	
NOTE OFF (Receive only) US 1000nnnn(8nH) NUMBER 0kkkkkk CITY 0vyvyvy	n = 0 - 15 VOICE CHANNEL NUMBER k = 0 (C-2) - 127 (G8) v: ignored

(3) TRA

(3-1) CHAN

(3-1-1) NOTE OFF (Re	eceive only)	
STATUS	1000nnnn(8nH)	n = 0 - 15 VOICE CHANNEL NUMBER
NOTE NUMBER	0kkkkkkk	k = 0 (C-2) - 127 (G8)
VELOCITY	0vvvvvv	v: ignored

(3-1-2) NOTE ON/OFF

n = 0 - 15 VOICE CHANNEL NUMBER 1001nnnn(9nH) STATUS NOTE NUMBER k = 0 (C-2) - 127 (G8)(v≠0) NOTE ON 0kkkkkkk VELOCITY 0vvvvvv 00000000 (v=0) NOTE OFF

(3-1-3) PROGRAM CHANGE

1100nnnn(CnH) n = 0 - 15 VOICE CHANNEL NUMBER PROGRAM NUMBER Oppppppp p = 0 - 127

* PROGRAM NUMBER: XG DRUM VOICE number correspondence

P = 0 P = 1 P = 4 Standard Kit Standard2 Kit Hit Kit P = 8 P = 16 Room Kit Rock Kit P = 24 P = 25 Eletrnic Kit Analog Kit P = 27Dance Kit P = 32 P = 40 Jazz Kit Brush Kit P = 48 Symphony Kit

* PROGRAM NUMBER: XG SFX KIT number correspondence

SFX1 Kit P = 1SFX2 Kit

When DRUM VOICE is selected and program change data for a different DRUM VOICE is received, the currently selected DRUM VOICE will be replaced with the new DRUM VOICE.

(3-1-4) CHANNEL AFTER TOUCH (Receive only)

1101nnnn(DnH)

n = 0 - 15 VOICE CHANNEL NUMBER

127 AFTER TOUCH VALUE

(3-1-5) PITCH BEND CHANGE

1110nnnn(EnH) n = 0 - 15 VOICE CHANNEL NUMBER STATUS LSB PITCH BEND CHANGE LSB PITCH BEND CHANGE MSB 0vvvvvv MSB 0vvvvvvv

	ROL CHANGE		
STATUS	1011nnnn(BnH)	n = 0 - 15 VOICE CHANNEL NUMBER	
CONTROL N			
CONTROL V	ALUE 0vvvvvvv		
* Transmit	CONTROL NUMBER.		
c = 0	BANK SELECT MSB	; $v = 0:XG NORMAL$,	
		64:SFX NORMAL,	
		126:XG SFX KIT,	
		127:XG DRUM	
c = 32	BANK SELECT LSB	; v = 0 - 127	
c = 1	MODULATION	v = 0 - 127 *2	,
C - 1	Modelanon	(PSR-740 ONLY)	
c = 6	DATA ENTRY MSB	; v = 0 - 127 *1	
c = 38	DATA ENTRY LSB	v = 0 - 127 *1	
c = 36 c = 7	MAIN VOLUME	v = 0 - 127 v = 0 - 127	
c = 10	PANPOT		
	EXPRESSION	v = 0 - 127	
c = 11	SUSTAIN	; v = 0 - 127 : v = 0-63;OFF - 64-127;ON *2	
c = 64			
c = 66	SOSTENUTO	; v = 0-63:OFF , 64-127:ON *2	
c = 67	SOFT PEDAL	; v = 0-63:OFF , 64-127:ON *2	
c = 71	HARMONIC CONTENT	; v = 0:-64 - 64:0 - 127:+63 *2	
		(PSR-740 ONLY)	•
c = 72	RELEASE TIME	; v = 0:-64 - 64:0 - 127:+63	
c = 74	BRIGHTNESS	; v = 0:-64 - 64:0 - 127:+63 *2	
		(PSR-740 ONLY)	1
c = 91	REVERB SEND LEVEL	; v = 0 - 127	
c = 93	CHORUS SEND LEVEL	; v = 0 - 127	
c = 94	VARIATION SEND LEVEL	; v = 0 - 127	
		(When only Connection = 1[System])	
c = 98	NRPN LSB	Refer to "(3-4)NON-REGISTERED	
C = 90	INKFIN LSB	PARAMETER NUMBER"	,
c = 99	NRPN MSB	Refer to "(3-4)NON-REGISTERED	
C - 77	INKFIN WISB		,
400	ppull ap	PARAMETER NUMBER"	
c = 100	RPN LSB	Refer to "(3-3)REGISTERED	
		PARAMETER NUMBER"	
c = 101	RPN MSB	Refer to "(3-3)REGISTERED	
		PARAMETER NUMBER"	•
* Receive (CONTROL NUMBER.		
* Receive (c = 0	CONTROL NUMBER. BANK SELECT MSB	; $v = 0$:XG NORMAL,	
		64:SFX NORMAL,	
		64:SFX NORMAL,	
		64:SFX NORMAL, 126:XG SFX KIT,	
c = 0	BANK SELECT MSB	64:SFX NORMAL, 126:XG SFX KIT, 127:XG DRUM	
c = 0 $c = 32$	BANK SELECT MSB BANK SELECT LSB	64:SFX NORMAL, 126:XG SFX KIT, 127:XG DRUM ; v = 0 - 127	,
c = 0 $c = 32$ $c = 1$	BANK SELECT MSB BANK SELECT LSB MODULATION	64:SFX NORMAL, 126:XG SFX KIT, 127:XG DRUM ; v = 0 - 127 ; v = 0 - 127 *2	
c = 0 $c = 32$ $c = 1$ $c = 5$	BANK SELECT MSB BANK SELECT LSB MODULATION PORTAMENTO TIME	$\begin{aligned} & 64:SFX \text{ NORMAL,} \\ & 126:XG \text{ SFX KIT,} \\ & 127:XG \text{ DRUM} \\ & ; v = 0 - 127 \\ \end{aligned}$	
c = 0 c = 32 c = 1 c = 5 c = 6	BANK SELECT MSB BANK SELECT LSB MODULATION PORTAMENTO TIME DATA ENTRY MSB	$\begin{aligned} & 64:SFX \ NORMAL, \\ & 126:XG \ SFX \ KIT, \\ & 127:XG \ DRUM \\ ; v &= 0 - 127 \\ \end{aligned}$!
c = 0 c = 32 c = 1 c = 5 c = 6 c = 38	BANK SELECT MSB BANK SELECT LSB MODULATION PORTAMENTO TIME DATA ENTRY MSB DATA ENTRY LSB	64:SFX NORMAL, 126:XG SFX KIT, 127:XG DRUM ; v = 0 - 127 ; v = 0 - 127	!
c = 0 c = 32 c = 1 c = 5 c = 6 c = 38 c = 7	BANK SELECT MSB BANK SELECT LSB MODULATION PORTAMENTO TIME DATA ENTRY MSB DATA ENTRY LSB MAIN VOLUME	$\begin{aligned} & 64:SFX \text{ NORMAL,} \\ & 126:XG \text{ SFX KIT,} \\ & 127:XG \text{ DRUM} \\ & ; v = 0 - 127 \\ \end{aligned}$!
c = 0 c = 32 c = 1 c = 5 c = 6 c = 38 c = 7 c = 10	BANK SELECT MSB BANK SELECT LSB MODULATION PORTAMENTO TIME DATA ENTRY MSB DATA ENTRY LSB MAIN VOLUME PANPOT	$64:SFX NORMAL, \\ 126:XG SFX KIT, \\ 127:XG DRUM \\ ; v = 0 - 127 \\ ; v = 0 - 1$!
c = 0 c = 32 c = 1 c = 5 c = 6 c = 38 c = 7 c = 10 c = 11	BANK SELECT MSB BANK SELECT LSB MODULATION PORTAMENTO TIME DATA ENTRY MSB DATA ENTRY LSB MAIN VOLUME PANPOT EXPRESSION	64:SFX NORMAL, 126:XG SFX KIT, 127:XG DRUM ; v = 0 - 127	!
c = 0 c = 32 c = 1 c = 5 c = 6 c = 38 c = 7 c = 10	BANK SELECT MSB BANK SELECT LSB MODULATION PORTAMENTO TIME DATA ENTRY MSB DATA ENTRY LSB MAIN VOLUME PANPOT	$\begin{aligned} & 64:SFX \text{ NORMAL,} \\ & 126:XG \text{ SFX KIT,} \\ & 127:XG \text{ DRUM} \\ & ; v = 0 - 127 \\ & ; v = 0 - 63:OFF, 64-127:ON \end{aligned}$:
c = 0 c = 32 c = 1 c = 5 c = 6 c = 38 c = 7 c = 10 c = 11	BANK SELECT MSB BANK SELECT LSB MODULATION PORTAMENTO TIME DATA ENTRY MSB DATA ENTRY LSB MAIN VOLUME PANPOT EXPRESSION	64:SFX NORMAL, 126:XG SFX KIT, 127:XG DRUM ; v = 0 - 127	!
c = 0 c = 32 c = 1 c = 5 c = 6 c = 38 c = 7 c = 10 c = 11 c = 64	BANK SELECT MSB BANK SELECT LSB MODULATION PORTAMENTO TIME DATA ENTRY MSB DATA ENTRY LSB MAIN VOLUME PANPOT EXPRESSION SUSTAIN	64:SFX NORMAL, 126:XG SFX KIT, 127:XG DRUM ; v = 0 - 127 ; v = 0 - 63:OFF, 64-127:ON	!
c = 0 c = 32 c = 1 c = 5 c = 6 c = 38 c = 7 c = 10 c = 11 c = 64 c = 65	BANK SELECT MSB BANK SELECT LSB MODULATION PORTAMENTO TIME DATA ENTRY MSB DATA ENTRY LSB MAIN VOLUME PANPOT EXPRESSION SUSTAIN PORTAMENTO	64:SFX NORMAL, 126:XG SFX KIT, 127:XG DRUM ; v = 0 - 127 ; v = 0 - 63:OFF , 64-127:ON ; v = 0 -63:OFF , 64-127:ON	
c = 0 c = 32 c = 1 c = 5 c = 6 c = 38 c = 7 c = 10 c = 11 c = 64 c = 65 c = 66 c = 67	BANK SELECT MSB BANK SELECT LSB MODULATION PORTAMENTO TIME DATA ENTRY MSB DATA ENTRY LSB MAIN VOLUME PANPOT EXPRESSION SUSTAIN PORTAMENTO SOSTENUTO SOFT PEDAL	64:SFX NORMAL, 126:XG SFX KIT, 127:XG DRUM ; v = 0 - 127 ; v = 0 - 63:OFF, 64-127:ON ; v = 0 - 64-64 - 127:ON ; v = 0 - 64-64 - 127:ON	
c = 0 c = 32 c = 1 c = 5 c = 6 c = 38 c = 7 c = 10 c = 11 c = 64 c = 65 c = 66 c = 67 c = 71	BANK SELECT MSB BANK SELECT LSB MODULATION PORTAMENTO TIME DATA ENTRY MSB DATA ENTRY LSB MAIN VOLUME PANPOT EXPRESSION SUSTAIN PORTAMENTO SOSTENUTO SOSTENUTO SOFT PEDAL HARMONIC CONTENT	64:SFX NORMAL, 126:XG SFX KIT, 127:XG DRUM ; v = 0 - 127 ; v = 0 - 63:OFF, 64-127:ON ; v = 0-63:OFF, 64-127:O	
c = 0 c = 32 c = 1 c = 5 c = 6 c = 38 c = 7 c = 10 c = 11 c = 64 c = 65 c = 66 c = 67 c = 71 c = 72	BANK SELECT MSB BANK SELECT LSB MODULATION PORTAMENTO TIME DATA ENTRY MSB DATA ENTRY LSB MAIN VOLUME PANPOT EXPRESSION SUSTAIN PORTAMENTO SOSTENUTO SOFT PEDAL HARMONIC CONTENT RELEASE TIME	64:SFX NORMAL, 126:XG SFX KIT, 127:XG DRUM ; v = 0 - 127 ; v = 0 - 63:OFF, 64-127:ON ; v = 0-63:OFF, 64-127:ON ; v = 0-63:O	
c = 0 c = 32 c = 1 c = 5 c = 6 c = 38 c = 7 c = 10 c = 11 c = 64 c = 65 c = 66 c = 67 c = 71 c = 72 c = 73	BANK SELECT MSB BANK SELECT LSB MODULATION PORTAMENTO TIME DATA ENTRY MSB DATA ENTRY LSB MAIN VOLUME PANPOT EXPRESSION SUSTAIN PORTAMENTO SOSTENUTO SOFT PEDAL HARMONIC CONTENT RELEASE TIME ATTACK TIME	64:SFX NORMAL, 126:XG SFX KIT, 127:XG DRUM ; v = 0 - 127 ; v = 0 - 63:OFF, 64-127:ON ; v = 0 - 64 - 64:O - 127:+63 ; v = 0 - 64 - 64:O - 127:+63 ; v = 0 - 64 - 64:O - 127:+63	
c = 0 c = 32 c = 1 c = 5 c = 6 c = 38 c = 7 c = 10 c = 11 c = 64 c = 65 c = 66 c = 67 c = 71 c = 72 c = 73 c = 74	BANK SELECT MSB BANK SELECT LSB MODULATION PORTAMENTO TIME DATA ENTRY MSB DATA ENTRY MSB DATA ENTRY LSB MAIN VOLUME PANPOT EXPRESSION SUSTAIN PORTAMENTO SOSTENUTO SOFT PEDAL HARMONIC CONTENT RELEASE TIME ATTACK TIME BRIGHTNESS	$64:SFX NORMAL, \\ 126:XG SFX KIT, \\ 127:XG DRUM \\ ; v = 0 - 127 $	
c = 0 c = 32 c = 1 c = 5 c = 6 c = 38 c = 7 c = 10 c = 11 c = 64 c = 65 c = 66 c = 67 c = 71 c = 72 c = 73 c = 74 c = 84	BANK SELECT MSB BANK SELECT LSB MODULATION PORTAMENTO TIME DATA ENTRY MSB DATA ENTRY LSB MAIN VOLUME PANPOT EXPRESSION SUSTAIN PORTAMENTO SOSTENUTO SOFT PEDAL HARMONIC CONTENT RELEASE TIME ATTACK TIME BRIGHTNESS PORTAMENT CONTROL	64:SFX NORMAL, 126:XG SFX KIT, 127:XG DRUM ; v = 0 - 127 ; v = 0 - 63:OFF, 64-127:ON ; v = 0 - 64:Off, 64-127:ON ; v = 0 - 64 - 64:Off, 127:He3 ; v = 0 - 64 - 64:Off, 127:He3 ; v = 0 - 64 - 64:Off, 127:He3 ; v = 0 - 64 - 64:Off, 127:He3 ; v = 0 - 64 - 64:Off, 127:He3 ; v = 0 - 64 - 64:Off, 127:He3 ; v = 0 - 64 - 64:Off, 127:He3 ; v = 0 - 127 ; v = 0 - 127	
c = 0 c = 32 c = 1 c = 5 c = 6 c = 38 c = 7 c = 10 c = 11 c = 64 c = 65 c = 66 c = 67 c = 71 c = 72 c = 73 c = 74 c = 84 c = 91	BANK SELECT MSB BANK SELECT LSB MODULATION PORTAMENTO TIME DATA ENTRY MSB DATA ENTRY LSB MAIN VOLUME PANPOT EXPRESSION SUSTAIN PORTAMENTO SOSTENUTO SOFT PEDAL HARMONIC CONTENT RELEASE TIME ATTACK TIME BRIGHTNESS PORTAMENT CONTROL REVERB SEND LEVEL	64:SFX NORMAL, 126:XG SFX KIT, 127:XG DRUM ; v = 0 - 127 ; v = 0 - 63:OFF, 64-127:ON ; v = 0 - 64 - 64:0 - 127:+63 ; v = 0 - 64 - 64:0 - 127:+63 ; v = 0 - 64 - 64:0 - 127:+63 ; v = 0 - 64 - 64:0 - 127:+63 ; v = 0 - 127 ; v = 0 - 127 ; v = 0 - 127	
c = 0 c = 32 c = 1 c = 5 c = 6 c = 38 c = 7 c = 10 c = 11 c = 64 c = 65 c = 66 c = 67 c = 71 c = 72 c = 73 c = 74 c = 84 c = 91 c = 93	BANK SELECT MSB BANK SELECT LSB MODULATION PORTAMENTO TIME DATA ENTRY MSB DATA ENTRY LSB MAIN VOLUME PANPOT EXPRESSION SUSTAIN PORTAMENTO SOSTENUTO SOFT PEDAL HARMONIC CONTENT RELEASE TIME ATTACK TIME BRIGHTNESS PORTAMENT CONTROL REVERB SEND LEVEL CHORUS SEND LEVEL	64:SFX NORMAL, 126:XG SFX KIT, 127:XG DRUM ; v = 0 - 127 ; v = 0 - 63:OFF, 64-127:ON ; v = 0 - 64 - 64:0 - 127:+63 ; v = 0 - 64 - 64:0 - 127:+63 ; v = 0 - 127	
c = 0 c = 32 c = 1 c = 5 c = 6 c = 38 c = 7 c = 10 c = 11 c = 64 c = 65 c = 66 c = 67 c = 71 c = 72 c = 73 c = 74 c = 84 c = 91	BANK SELECT MSB BANK SELECT LSB MODULATION PORTAMENTO TIME DATA ENTRY MSB DATA ENTRY LSB MAIN VOLUME PANPOT EXPRESSION SUSTAIN PORTAMENTO SOSTENUTO SOFT PEDAL HARMONIC CONTENT RELEASE TIME ATTACK TIME BRIGHTNESS PORTAMENT CONTROL REVERB SEND LEVEL	64:SFX NORMAL, 126:XG SFX KIT, 127:XG DRUM ; v = 0 - 127 ; v = 0 - 63:OFF, 64-127:ON ; v = 0 - 64 - 64:O - 127:+63 ; v = 0 - 64 - 64:O - 127:+63 ; v = 0 - 64 - 64:O - 127:+63 ; v = 0 - 64 - 64:O - 127:+63 ; v = 0 - 64 - 64:O - 127:+63 ; v = 0 - 127	
c = 0 c = 32 c = 1 c = 5 c = 6 c = 38 c = 7 c = 10 c = 11 c = 64 c = 65 c = 66 c = 67 c = 71 c = 72 c = 73 c = 74 c = 84 c = 91 c = 93 c = 94	BANK SELECT MSB BANK SELECT LSB MODULATION PORTAMENTO TIME DATA ENTRY MSB DATA ENTRY LSB MAIN VOLUME PANPOT EXPRESSION SUSTAIN PORTAMENTO SOSTENUTO SOFT PEDAL HARMONIC CONTENT RELEASE TIME ATTACK TIME BRIGHTNESS PORTAMENT CONTROL REVERB SEND LEVEL CHORUS SEND LEVEL VARIATION SEND LEVEL	64:SFX NORMAL, 126:XG SFX KIT, 127:XG DRUM ; v = 0 - 127 ; v = 0 - 63:OFF, 64-127:ON ; v = 0 - 64 - 64:0 - 127:+63 ; v = 0 - 64 - 64:0 - 127:+63 ; v = 0 - 127	
c = 0 c = 32 c = 1 c = 5 c = 6 c = 38 c = 7 c = 10 c = 11 c = 64 c = 65 c = 66 c = 67 c = 71 c = 72 c = 73 c = 74 c = 84 c = 91 c = 93 c = 94 c = 96	BANK SELECT MSB BANK SELECT LSB MODULATION PORTAMENTO TIME DATA ENTRY MSB DATA ENTRY LSB MAIN VOLUME PANPOT EXPRESSION SUSTAIN PORTAMENTO SOSTENUTO SOSTENUTO SOFT PEDAL HARMONIC CONTENT RELEASE TIME ATTACK TIME BRIGHTNESS PORTAMENT CONTROL REVERB SEND LEVEL VARIATION SEND LEVEL DATA INCREMENT	64:SFX NORMAL, 126:XG SFX KIT, 127:XG DRUM ; v = 0 - 127 ; v = 0 - 63:OFF, 64-127:ON ; v = 0 - 64 - 64:0 - 127:+63 ; v = 0 - 127 (When only Connection=1[System]) ; v = 0 - 127	
c = 0 c = 32 c = 1 c = 5 c = 6 c = 38 c = 7 c = 10 c = 11 c = 64 c = 65 c = 66 c = 67 c = 71 c = 72 c = 73 c = 74 c = 84 c = 91 c = 93 c = 94 c = 96 c = 97	BANK SELECT MSB BANK SELECT LSB MODULATION PORTAMENTO TIME DATA ENTRY MSB DATA ENTRY LSB MAIN VOLUME PANPOT EXPRESSION SUSTAIN PORTAMENTO SOSTENUTO SOFT PEDAL HARMONIC CONTENT RELEASE TIME ATTACK TIME BRIGHTNESS PORTAMENT CONTROL REVERB SEND LEVEL CHORUS SEND LEVEL VARIATION SEND LEVEL DATA INCREMENT DATA DECREMENT	$64:SFX NORMAL, \\ 126:XG SFX KIT, \\ 127:XG DRUM \\ ; v = 0 - 127 \\ ; v = 0 - 63:OFF, 64-127:ON \\ ; v = 0 - 64:OFF, 64-127:ON \\ ; v = 0 - 127 \\ ; v = 0 -$	
c = 0 c = 32 c = 1 c = 5 c = 6 c = 38 c = 7 c = 10 c = 11 c = 64 c = 65 c = 66 c = 67 c = 71 c = 72 c = 73 c = 74 c = 84 c = 91 c = 93 c = 94 c = 96	BANK SELECT MSB BANK SELECT LSB MODULATION PORTAMENTO TIME DATA ENTRY MSB DATA ENTRY LSB MAIN VOLUME PANPOT EXPRESSION SUSTAIN PORTAMENTO SOSTENUTO SOSTENUTO SOFT PEDAL HARMONIC CONTENT RELEASE TIME ATTACK TIME BRIGHTNESS PORTAMENT CONTROL REVERB SEND LEVEL VARIATION SEND LEVEL DATA INCREMENT	64:SFX NORMAL, 126:XG SFX KIT, 127:XG DRUM ; v = 0 - 127 ; v = 0 - 63:OFF, 64-127:ON ; v = 0 - 64:O - 127:+63 ; v = 0 - 64 - 64:O - 127:+63 ; v = 0 - 64 - 64:O - 127:+63 ; v = 0 - 127	
c = 0 c = 32 c = 1 c = 5 c = 6 c = 38 c = 7 c = 10 c = 11 c = 64 c = 65 c = 66 c = 67 c = 71 c = 72 c = 73 c = 74 c = 84 c = 91 c = 93 c = 94 c = 96 c = 97 c = 98	BANK SELECT MSB BANK SELECT LSB MODULATION PORTAMENTO TIME DATA ENTRY MSB DATA ENTRY MSB DATA ENTRY LSB MAIN VOLUME PANPOT EXPRESSION SUSTAIN PORTAMENTO SOSTENUTO SOFT PEDAL HARMONIC CONTENT RELEASE TIME ATTACK TIME BRIGHTINESS PORTAMENT CONTROL REVERB SEND LEVEL VARIATION SEND LEVEL VARIATION SEND LEVEL DATA INCREMENT DATA DECREMENT NRPN LSB	64:SFX NORMAL, 126:XG SFX KIT, 127:XG DRUM ; v = 0 - 127 ; v = 0 - 63:OFF, 64-127:ON ; v = 0 - 64 - 64:0 - 127:+63 ; v = 0 - 64 - 64:0 - 127:+63 ; v = 0 - 127 (When only Connection=1[System]) ; v = 0 - 127 Refer to "(3-4)NON-REGISTERED PARAMETER NUMBER"	
c = 0 c = 32 c = 1 c = 5 c = 6 c = 38 c = 7 c = 10 c = 11 c = 64 c = 65 c = 66 c = 67 c = 71 c = 72 c = 73 c = 74 c = 84 c = 91 c = 93 c = 94 c = 96 c = 97	BANK SELECT MSB BANK SELECT LSB MODULATION PORTAMENTO TIME DATA ENTRY MSB DATA ENTRY LSB MAIN VOLUME PANPOT EXPRESSION SUSTAIN PORTAMENTO SOSTENUTO SOFT PEDAL HARMONIC CONTENT RELEASE TIME ATTACK TIME BRIGHTNESS PORTAMENT CONTROL REVERB SEND LEVEL CHORUS SEND LEVEL VARIATION SEND LEVEL DATA INCREMENT DATA DECREMENT	64:SFX NORMAL, 126:XG SFX KIT, 127:XG DRUM ; v = 0 - 127 ; v = 0 - 63:OFF, 64-127:ON ; v = 0 - 64 - 64:0 - 127:+63 ; v = 0 - 64 - 64:0 - 127:+63 ; v = 0 - 64 - 64:0 - 127:+63 ; v = 0 - 127 ; v = 0	
c = 0 c = 32 c = 1 c = 5 c = 6 c = 38 c = 7 c = 10 c = 11 c = 64 c = 65 c = 66 c = 67 c = 71 c = 72 c = 73 c = 74 c = 84 c = 91 c = 93 c = 94 c = 96 c = 97 c = 98	BANK SELECT MSB BANK SELECT LSB MODULATION PORTAMENTO TIME DATA ENTRY MSB DATA ENTRY MSB DATA ENTRY LSB MAIN VOLUME PANPOT EXPRESSION SUSTAIN PORTAMENTO SOSTENUTO SOFT PEDAL HARMONIC CONTENT RELEASE TIME ATTACK TIME BRIGHTINESS PORTAMENT CONTROL REVERB SEND LEVEL VARIATION SEND LEVEL VARIATION SEND LEVEL DATA INCREMENT DATA DECREMENT NRPN LSB	64:SFX NORMAL, 126:XG SFX KIT, 127:XG DRUM ; v = 0 - 127 ; v = 0 - 63:OFF, 64-127:ON ; v = 0 - 64 - 64:0 - 127:+63 ; v = 0 - 64 - 64:0 - 127:+63 ; v = 0 - 64 - 64:0 - 127:+63 ; v = 0 - 127 ; v = 0	
c = 0 c = 32 c = 1 c = 5 c = 6 c = 38 c = 7 c = 10 c = 11 c = 64 c = 65 c = 66 c = 67 c = 71 c = 71 c = 72 c = 73 c = 74 c = 84 c = 91 c = 93 c = 94 c = 96 c = 97 c = 98 c = 99	BANK SELECT MSB BANK SELECT LSB MODULATION PORTAMENTO TIME DATA ENTRY MSB DATA ENTRY MSB DATA ENTRY LSB MAIN VOLUME PANPOT EXPRESSION SUSTAIN PORTAMENTO SOSTENUTO SOFT PEDAL HARMONIC CONTENT RELEASE TIME ATTACK TIME BRIGHTINESS PORTAMENT CONTROL REVERB SEND LEVEL VARIATION SEND LEVEL VARIATION SEND LEVEL DATA INCREMENT DATA DECREMENT NRPN LSB	64:SFX NORMAL, 126:XG SFX KIT, 127:XG DRUM ; v = 0 - 127 ; v = 0 - 63:OFF, 64-127:ON ; v = 0 - 64 - 64:0 - 127:+63 ; v = 0 - 64 - 64:0 - 127:+63 ; v = 0 - 127 Refer to "(3-4)NON-REGISTERED PARAMETER NUMBER" Refer to "(3-4)NON-REGISTERED PARAMETER NUMBER"	
c = 0 c = 32 c = 1 c = 5 c = 6 c = 38 c = 7 c = 10 c = 11 c = 64 c = 65 c = 66 c = 67 c = 71 c = 71 c = 72 c = 73 c = 74 c = 84 c = 91 c = 93 c = 94 c = 96 c = 97 c = 98 c = 99	BANK SELECT MSB BANK SELECT LSB MODULATION PORTAMENTO TIME DATA ENTRY MSB DATA ENTRY MSB MAIN VOLUME PANPOT EXPRESSION SUSTAIN PORTAMENTO SOSTENUTO SOFT PEDAL HARMONIC CONTENT RELEASE TIME ATTACK TIME BRIGHTNESS PORTAMENT CONTROL REVERB SEND LEVEL CHORUS SEND LEVEL CHORUS SEND LEVEL VARIATION SEND LEVEL DATA INCREMENT DATA DECREMENT NRPN LSB NRPN MSB	64:SFX NORMAL, 126:XG SFX KIT, 127:XG DRUM ; v = 0 - 127 ; v = 0 - 63:OFF, 64-127:ON ; v = 0 - 64 - 64:0 - 127:+63 ; v = 0 - 64 - 64:0 - 127:+63 ; v = 0 - 64 - 64:0 - 127:+63 ; v = 0 - 127 ; v = 0	
c = 0 c = 32 c = 1 c = 5 c = 6 c = 38 c = 7 c = 10 c = 11 c = 64 c = 65 c = 66 c = 67 c = 71 c = 72 c = 73 c = 74 c = 84 c = 91 c = 93 c = 94 c = 98 c = 99 c = 100	BANK SELECT MSB BANK SELECT LSB MODULATION PORTAMENTO TIME DATA ENTRY MSB DATA ENTRY MSB MAIN VOLUME PANPOT EXPRESSION SUSTAIN PORTAMENTO SOSTENUTO SOFT PEDAL HARMONIC CONTENT RELEASE TIME ATTACK TIME BRIGHTNESS PORTAMENT CONTROL REVERB SEND LEVEL CHORUS SEND LEVEL CHORUS SEND LEVEL VARIATION SEND LEVEL DATA INCREMENT DATA DECREMENT NRPN LSB NRPN MSB	64:SFX NORMAL, 126:XG SFX KIT, 127:XG DRUM ; v = 0 - 127 ; v = 0 - 63:OFF, 64-127:ON ; v = 0 - 64 - 64:0 - 127:+63 ; v = 0 - 64 - 64:0 - 127:+63 ; v = 0 - 127 Refer to "(3-4)NON-REGISTERED PARAMETER NUMBER" Refer to "(3-4)NON-REGISTERED PARAMETER NUMBER" Refer to "(3-4)REGISTERED PARAMETER NUMBER"	
c = 0 c = 32 c = 1 c = 5 c = 6 c = 38 c = 7 c = 10 c = 11 c = 64 c = 65 c = 66 c = 67 c = 71 c = 72 c = 73 c = 74 c = 84 c = 91 c = 93 c = 94 c = 98 c = 99 c = 100	BANK SELECT MSB BANK SELECT LSB MODULATION PORTAMENTO TIME DATA ENTRY MSB DATA ENTRY LSB MAIN VOLUME PANPOT EXPRESSION SUSTAIN PORTAMENTO SOSTENUTO SOFT PEDAL HARMONIC CONTENT RELEASE TIME BRIGHTNESS PORTAMENT CONTROL REVERB SEND LEVEL CHORUS SEND LEVEL CHORUS SEND LEVEL DATA INCREMENT NATION SEND LEVEL	64:SFX NORMAL, 126:XG SFX KIT, 127:XG DRUM ; v = 0 - 127 ; v = 0 - 63:OFF, 64-127:ON ; v = 0 - 64 - 64:0 - 127:+63 ; v = 0 - 64 - 64:0 - 127:+63 ; v = 0 - 127 Refer to "(3-4)NON-REGISTERED PARAMETER NUMBER" Refer to "(3-4)NON-REGISTERED PARAMETER NUMBER"	

- *1 Only when setting the appointed parameter with RPN, NRPN.
- *2 Does not effect Rhythm Voice.

(3-1-6) CONTROL CHANGE

· Until a PROGRAM CHANGE message is received, the BANK SELECT operation will be suspended.
When a Voice, including VOICE BANK, is changed, set the BANK SELECT and Program

Change Message, and transmit in the following order, BANK SELECT MSB, LSB, PROGRAM CHANGE.

MODULATION controls the Vibrato Depth.

- MODULATION controls the Pitch Change Speed when the Portamento Switch = ON.
 O being the shortest time, and 127 being the longest.
 PANPOT changes the value for the melody voice and rhythm voice in relation to the preset value.
 POTAMENTO TONTENT applies adjustment to the resonance value that is set by the voice.
 HARMONIC CONTENT applies adjustment to the resonance value that is set by the voice.
 This parameter specifies relative change with the value of 64 producing 0 adjustment.
 As values get higher the sound becomes increasingly eccentric.

- This parameter specifies relative change with the value of 64 producing 0 adjustment. As values get higher the sound becomes increasingly eccentric. Note that for some voices the effective parameter range is narrower than the legal parameter range.

 RELEASE TIME applies adjustment to the envelope release time set by the voice. This parameter specifies relative change with the value of 64 producing 0 adjustment.

 AITACK TIME applies adjustment to the envelope attack time set by the voice. This parameter specifies relative change with the value of 64 producing 0 adjustment.

 BRIGHTNESS applies adjustment to the cut-off frequency set by the voice. This parameter specifies relative change with the value of 64 producing 0 adjustment. Lower voices produce a softer sound.

 For some voices the effective parameter range is narrower than the legal parameter range.

(3-2) CHANNEL MODE MESSAGES

1011nnnn(BnH) n = 0 - 15 VOICE CHANNEL NUMBER STATUS CONTROL NUMBER c = CONTROL NUMBER v = DATA VALUE Осссссс CONTROL VALUE 0vvvvvv

(3-2-1) ALL SOUND OFF (Receive only) (CONTROL NUMBER = 78H, DATA VALUE = 0) Switches off all sound from the channel.

Does not reset Note On and Hold On conditions established by Channel Messages.

```
(3-2-2) RESET ALL CONTROLLERS (Receive only)
(CONTROL NUMBER = 79H, DATA VALUE = 0)
                                                                                                                         02H 30H mmH — HARMONY1 DETUNE
02H 31H mmH — HARMONY2 DETUNE
                                                                                                                                                                                         (PSR-740 ONLY)
                                                                                                                                                                                         (PSR-740 ONLY)
    Resets controllers as follows
                                                                                                                           The MSG14H-1FH (for drums) message is accepted as long as the channel is set with a drum
         PITCH BEND CHANGE
                                            0 (Center)
                                                                                                                           rrH : drum instrument note number
          AFTER TOUCH
MODULATION
                                             0 (min.)
0 (min.)
                                                                                                                    (3-5) SYSTEM REALTIME MESSAGES
          EXPRESSION
                                             127 (max.)
          SUSTAIN
                                             0 (off)
                                                                                                                      (3-5-1) MIDI CLOCK
          SOSTENUTO
                                             0 (off)
                                                                                                                         STATUS
                                                                                                                                                     11111000 (F8H)
          SOFT PEDAL
                                             0 (off)
                                                                                                                            Transmission: 96 clocks per measure are transmitted.

Reception: If the instrument's clock is set to external, after FAH is received from the external
          NRPN
                                             Sets number to null. (Internal data remains unchanged)
         RPN
PORTAMENT CONTROL
                                             Sets number to null. (Internal data remains unchanged)
                                                                                                                            device the instrument's clock will sync with the 96 beats per measure received from the
                                             Resets portamento source note number
                                                                                                                            external device.
                                             0 (off)
         PORTAMENTO
                                                                                                                            Decides whether the internal clock, or Timing Clocks received via the MIDI IN will be used.
  (3-2-3) ALL NOTES OFF (Receive only)
                                                  (CONTROL NUMBER = 7BH, DATA VALUE = 0)
                                                                                                                       (3-5-2) START
       Switches off all of the channel's "on" note
                                                                                                                         STATUS
                                                                                                                                                     11111010 (FAH)
       However, any notes being held by SUSTAIN or SOSTENUTO continue to sound until SUSTAIN/SOSTENUTO goes off.
                                                                                                                            Transmission: Transmitted when instru
                                                                                                                                                                       ment's Rhythm or Song playback is started.
                                                                                                                            Reception: Depending upon the condition, Rhythm, Song Playback, or Song Rec will start.
  (3-2-4) OMNI OFF (Receive only) (CONTROL NUMBER = 7CH, DATA VALUE = 0)
                                                                                                                      (3-5-3) STOP
       Same processing as for All Notes Off.
                                                                                                                         STATUS
                                                                                                                                                     11111100 (FCH)
                                                                                                                            Transmission: Transmitted when instrument's Rhythm or Song playback is stopped.
  (3-2-5) OMNI ON (Receive only) (CONTROL NUMBER = 7DH , DATA VALUE = 0) Same processing as for All Notes Off. Omni On is not executed.
                                                                                                                            Reception: Depending upon the condition, Rhythm, Song Playback, or Song Rec will stop.
                                                                                                                      (3-5-4) ACTIVE SENSING
  (3-2-6) MONO (Receive only) (CONTROL NUMBER = 7EH , DATA VALUE = 0) Same processing as for All Notes Off.
                                                                                                                         STATUS
                                                                                                                                                    11111110 (FEH)
                                                                                                                            Transmission: Transmitted approximately once every 200msec.
       If the 3rd byte is in a range of 0-16 the corresponding channel will be changed to Mode 4
                                                                                                                            Reception: Depending upon the condition, Rhythm, Song Playback, or Song Rec will stop.
                                                                                                                    (3-6) SYSTEM EXCLUSIVE MESSAGE
  (3-2-7) POLY (Receive only) (CONTROL NUMBER = 7FH, DATA VALUE = 0)
Same processing as for All Sounds Off and the corresponding channel will be changed to Mode
                                                                                                                      (3-6-1) YAMAHA MIDI FORMAT
       3.
                                                                                                                         (3-6-1-1) SECTION CONTROL
(3-3) REGISTERED PARAMETER NUMBER (RPN)
    STATUS
RPN LSB
                                 1011nnnn(BnH)
01100100(64H)
                                                         n = 0 - 15 VOICE CHANNEL NUMBER
                                                                                                                             (PSR-640)
                                                                                                                             binary
                                                                                                                                                 hexadecimal
     RPN LSB NUMBER
                                 0ppppppp
01100101(65H)
                                                         p = RPN LSB(refer to the list below)
                                                                                                                             11110000
                                                                                                                                                 F0
43
                                                                                                                                                                  Exclusive status
     RPN MSB
                                                                                                                             01000011
                                                                                                                                                                   YAMAHA ID
                                                         q = RPN MSB(refer to the list below)
    RPN MSB
                                 0qqqqqq
00000110(06H)
                                                                                                                             01111110
                                                                                                                                                 7E
                                                                                                                                                                  Style
    DATA ENTRY MSB
DATA VALUE
                                  0mmmmmmm
                                                         m = Data Value
                                                                                                                             0000000
                                                                                                                                                 SS
                                                                                                                                                                  Switch No.
     DATA ENTRY LSB
                                 00100110(26H)
                                                                                                                                                                  00H
                                                                                                                                                                                    · INTRO A
     DATA VALUE
                                 Olllllll
                                                         l = Data Value
                                                                                                                                                                                    : INTRO B
                                                                                                                                                                  01H
      First appoints the parameter for RPN MSB/LSB, then sets the parameter value for data entry MSB/LSB.
                                                                                                                                                                  02H
                                                                                                                                                                                    · INTRO C
                                                                                                                                                                  03H - 07H
                                                                                                                                                                                    : INTRO D
: MAIN A
                                                                                                                                                                  08H
               D.ENTRY
    RPN
                                                                                                                                                                                    : MAIN B
: MAIN C
    MSB LSB MSB LSB PARAMETER NAME DATA RANGE
00H 00H mmH — PITCH BEND SENSITIVITY 00H - 18H(0 - 24 semitones)
                                                                                                                                                                  0AH
                                                                                                                                                                                    : MAIN D
: FILL IN A
: FILL IN B
                                                                                                                                                                  0BH - 0FH
    01H 00H mmH llH FINE TUNE
                                                                 \{mmH, llH\} =
                                                                 {00H,00H}-{40H,00H}-{7FH,7FH}
(-8192*100/8192) - 0 - (+8192*100/8192)
28H - 40H - 58H (-24 - 0) - +24 semitones)
                                                                                                                                                                  10H
                                                                                                                                                                  11H
    02H 00H mmH —
                                                                                                                                                                                     FILL IN C
                               COARSE TUNE
                                                                                                                                                                  13H - 17H
                                                                                                                                                                                    FILL IN D
                               NULL
                                                                 Clears the current RPN number setting
                                                                                                                                                                                     BREAK FILL IN A
                                                                 Does not change the internal parameter settings.
                                                                                                                                                                                     BREAK FILL IN B
                                                                                                                                                                  19H
                                                                                                                                                                                    : BREAK FILL IN C
: BREAK FILL IN D
                                                                                                                                                                  1AH
(3-4) NON-REGISTERED PARAMETER NUMBER (NRPN) (PSR-640 Receive only)
                                                                                                                                                                  1BH - 1FH
                                                         n = 0 - 15 VOICE CHANNEL NUMBER
    STATUS
                                 1011nnnn(BnH)
                                                                                                                                                                  20H
                                                                                                                                                                                    · ENDING A
     NRPN LSB
                                 01100010(62H)
                                                                                                                                                                                    : ENDING B
     NRPN LSB NUMBER
                                                         p = NRPN LSB(refer to the list below)
                                  Oppppppp
                                                                                                                                                                                    : ENDING C
                                 01100011(63H)
     NRPN MSB
                                                                                                                                                                  23H - 27H : ENDING D
Switch On/Off: 00H(Off),7FH(On)
     NRPN MSB NUMBER
                                 0qqqqqq
00000110(06H)
                                                         q = NRPN MSB(refer to the list below)
                                                                                                                             0ddddddd
                                                                                                                                                 DD
     DATA ENTRY MSB
                                                                                                                             11110111
                                                                                                                                                                  End of Exclusive
     DATA VALUE
       First appoints the parameter for NRPN MSB/LSB, then sets the parameter value for data entry
                                                                                                                             (PSR-740)
       MSB/LSB.
                                                                                                                            binary
11110000
                                                                                                                                                 hexadecimal
                                                                                                                                                 F0
                                                                                                                                                                  Exclusive status
     NRPN
               D.ENTRY
                                                                                                                             01000011
                                                                                                                                                 43
7E
                                                                                                                                                                   YAMAHA ID
                                                                    DATA RANGE
00H - 40H - 7FH (-64 - 0 - +63)
00H - 40H - 7FH (-64 - 0 - +63)
    MSB LSB MSB LSB PARAMETER NAME 01H 08H mmH — VIBRATO RATE
                                                                                                                             011111110
                                                                                                                                                                  Style
    01H 08H mmH —
01H 09H mmH —
                                                                                                                             00000000
                               VIBRATO DEPTH
                                                                                                                                                                  Switch No.
    01H 0AH mmH
01H 20H mmH
                               VIBRATO DELAY
FILTER CUTOFF FREQUENCY
                                                                    00H - 40H - 7FH (-64 - 0 - +63)
00H - 40H - 7FH (-64 - 0 - +63)
                                                                                                                                                                  00H
                                                                                                                                                                                    : INTRO A
                                                                    00H - 40H - 7FH (-64 - 0 - +63)

00H - 40H - 7FH (-64 - 0 - +63)

00H - 40H - 7FH (-64 - 0 - +63)

(PSR-740 ONLY)

00H - 40H - 7FH (-64 - 0 - +63)

(PSR-740 ONLY)
                                                                                                                                                                  01H
                                                                                                                                                                                    : INTRO B
    01H 21H mmH
01H 30H mmH
                               FILTER RESONANCE
EQ BASS
                                                                                                                                                                                    : INTRO C
                                                                                                                                                                  02H
                                                                                                                                                                                     INTRO D
COUNT INTRO A
                                                                                                                                                                  03H
                                                                                                                                                                  04H
    01H 31H mmH —
                              EQ TREBLE
                                                                                                                                                                                    : COUNT INTRO B
: COUNT INTRO C
: COUNT INTRO D
                                                                                                                                                                  05H
                                                                    00H - 40H - 7FH (-64 - 0 - +63)
(PSR-740 ONLY)
    01H 34H mmH —
                               EQ BASS FREQUENCY
                                                                                                                                                                  07H
                                                                                                                                                                                     MAIN A
MAIN B
                                                                    (PSR-740 ONLY)

00H - 40H - 7FH (-64 - 0 - +63)

(PSR-740 ONLY)

00H - 40H - 7FH (-64 - 0 - +63)
    01H 35H mmH —
                               EQ TREBLE FREQUENCY
                                                                                                                                                                  09H
                                                                                                                                                                                     MAIN C
MAIN D
                                                                                                                                                                  0AH
    01H 63H mmH -
                               EG ATTACK TIME
                                                                    00H - 40H - 7FH (-64 - 0 - +63)

00H - 40H - 7FH (-64 - 0 - +63)

00H - 40H - 7FH (-64 - 0 - +63)

00H - 40H - 7FH (-64 - 0 - +63)

00H - 40H - 7FH (-64 - 0 - +63)

00H - 40H - 7FH (-64 - 0 - +63)

00H - 40H - 7FH (-64 - 0 - +63)

00H - 40H - 7FH (-64 - 0 - +63)
                                                                                                                                                                  0BH - 0FH
                               EG DECAY TIME
EG RELEASE
     01H 64H mmH —
                                                                                                                                                                  10H
                                                                                                                                                                                     FILL IN A
    01H 66H mmH -
                                                                                                                                                                                     FILL IN B
                               DRUM FILTER CUTOFF FREQ
DRUM FILTER RESONANCE
     14H rrH mmH —
                                                                                                                                                                  12H
                                                                                                                                                                                    : FILL IN C
     15H rrH mmH -
                                                                                                                                                                                    : FILL IN D
: BREAK FILL IN A
                                                                                                                                                                   13H - 17H
     16H rrH mmH -
                               DRUM AEG ATTACK RATE
                                                                                                                                                                  18H
                               DRUM AEG DECAY RATE
     17H rrH mmH —
                                                                                                                                                                                    : BREAK FILL IN B
: BREAK FILL IN C
                                                                                                                                                                  19H
                               DRUM PITCH COARSE
     18H rrH mmH -
                                                                    00H - 40H - 7FH (-64 - 0 - +63)
00H - 7FH (0 - max.)
                               DRUM PITCH FINE
DRUM LEVEL
                mmH
     19H rrH
                                                                                                                                                                                    : BREAK FILL IN D
: ENDING A
: ENDING B
                                                                                                                                                                  1BH - 1FH
     1AH rrH mmH —
                                                                                                                                                                  20H
21H
                                                                     00H,01H - 40H - 7FH
(random,left - center - right)
     1CH rrH mmH —
                               DRUM PANPOT
                                                                                                                                                                                    : ENDING C
: ENDING D
                                                                                                                                                                  22H
                               DRUM REVERB SEND LEVEL
     1DH rrH mmH -
                                                                     00H - 7FH (0 - max.)
                                                                                                                                                                  23H
                               DRUM CHORUS SEND LEVEL
                                                                     00H - 7FH (0 - max.)
     1EH rrH mmH —
                                                                                                                                                                  24H
                                                                                                                                                                                     SIMPLE ENDING A
```

1FH rrH mmH -

00H 01H mmH —

01H 1AH mmH -

02H 10H mmH -

02H 11H mmH —

02H 20H mmH — 02H 21H mmH —

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DRUM VARIATION SEND LEVEL

HARMONY MUTE DETUNE MODULATION

HARMONY1 VOLUME HARMONY2 VOLUME

HARMONY1 PAN

HARMONY2 PAN

00H - 7FH (0 - max.)

(PSR-740 ONLY) (PSR-740 ONLY)

(PSR-740 ONLY)

(PSR-740 ONLY)

(PSR-740 ONLY)

(PSR-740 ONLY)

SIMPLE ENDING B

: SIMPLE ENDING C

SIMPLE ENDING D

Switch On/Off: 00H(Off).7FH(On)

26H

When an ON code is received, the appointed section will be changed.

End of Exclusive

Oddddddd 11110111

(3-6-1-2) TEMPO CONTROL

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01111110	7E	Style
00000000	01	
Ottttttt	TT	Tempo4
Ottttttt	TT	Tempo3
Ottttttt	TT	Tempo2
Ottttttt	TT	Tempo1
11110111	F7	End of Exclusive

The internal clock will be set to the received Tempo value.

Tempo Meta Event is a large data block (24-bit), it is divided into 4 groups with 7-bits going into each of the Tempos 1-4 (4 receives the remaining 3 bits)

(3-6-2) UNIVERSAL SYSTEM EXCLUSIVE

(3-6-2-1) UNIVERSAL REALTIME MESSAGE

(3-6-2-1-1) MIDI MASTER VOLUME (Receive only)

binary	hexadecimal	
11110000	F0	Exclusive status
01111111	7F	Universal Realtime
01111111	7F	ID of target Device
00000100	04	Sub-ID #1=Device Control Message
00000001	01	Sub-ID #2=Master Volume
Osssssss	SS	Volume LSB
Otttttt	TT	Volume MSB
11110111	F7	End of Exclusive
or		
11110000	F0	Exclusive status
01111111	7F	Universal Realtime
0xxxnnnn	XN	When N is received N=0-F,
		whichever is received.
		When N is transmitted N always=0.
		X = don't care
00000100	04	Sub-ID #1=Device Control Message
00000001	01	Sub-ID #2=Master Volume
Osssssss	SS	Volume LSB
Otttttt	TT	Volume MSB
11110111	F7	End of Exclusive
The volume for all	channels will be	changed simultaneously.

The TT value is used as the MIDI Master Volume value. (the ss value is ignored.)

(3-6-2-2) UNIVERSAL NON REALTIME MESSAGE

(3-6-2-2-1) GENERAL MIDI SYSTEM ON

binary	hexadecimal	
11110000	F0	Exclusive status
01111110	7E	Universal Non-Realtime
01111111	7F	ID of target Device
00001001	09	Sub-ID #1=General MIDI Message
00000001	01	Sub-ID #2=General MIDI On
11110111	F7	End of Exclusive
or		
11110000	F0	Exclusive status
01111110	7E	Universal Non-Realtime
0xxxnnnn	XN	When N is received N=0-F, whichever is received.
		When N is transmitted N always=0.
		X = don't care
00001001	09	Sub-ID #1=General MIDI Message
00000001	01	Sub-ID #2=General MIDI On
11110111	F7	End of Exclusive

Depending upon the received ON message, the System Mode will be changed to XG. Except MIDI Master Tuning, all control data be reset to default values.

This message requires approximately 50ms to execute, so sufficient time should be allowed before the next message is sent.

The bank select message for the channel 10 and the NRPN message are not received in the GM

(3-6-3) XG STANDARD

(3-6-3-1) XG PARAMETER CHANGE

(3-6-3-1-1) XG SYSTEM ON

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
0001nnnn	1N	Device Number
01001100	4C	Model ID
00000000	00	Address High
00000000	00	Address Mid
01111110	7E	Address Low
00000000	00	Data
11110111	F7	End of Exclusive

Depending upon the received ON message, the SYSTEM MODE will be changed to XG.Controllers will be reset, all values of Multi Part and Effect, and All System values denoted by "XG" data within All System will be reset to default values in the table.

This message requires approximately $50 \mathrm{ms}$ to execute, so sufficient time should be allowed before the next message is sent.

(3-6-3-1-2) XG PARMETER CHANGE

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
0001nnnn	1N	Device Number
01001100	4C	Model ID
0aaaaaaa	AA	Address High
Oaaaaaaa	AA	Address Mid
0aaaaaaa	AA	Address Low
0ddddddd	DD	Data
11110111	F7	End of Exclusive

For parameters with data size of 2 or 4, transmit the appropriate number of data bytes. For more information on Address and Parameters, refer to < Table 1-2>-< Table 1-8>-

The data types listed below are transmitted and received.

System Data Multi Effect1 Data

Multi EQ Data (PSR-740 ONLY) Multi Effect2 Data (PSR-740 ONLY)

Special Effect Data (PSR-740 ONLY)

Multi Part Data A/D Part Data (PSR-740 ONLY)

Drums Setup Data

(3-6-3-2) XG BULK DUMP

binary	hexadecimal	
01110000	F0	Exclusive status
01000011	43	YAMAHA ID
0000nnnn	0N	Device Number
01001100	4C	Model ID
0bbbbbbb	BB	ByteCount MSB
0bbbbbbb	BB	ByteCount LSB
Oaaaaaaa	AA	Address High
0aaaaaaa	AA	Address Mid
Oaaaaaaa	AA	Address Low
0ddddddd	DD	Data
Осссссс	CC	Check sum
11110111	F7	End of Exclusive

For more information on Address and Byte Count, refer to < Table 1-2 > - < Table 1-8 >. The Check Sum value is set such that the sum of Byte Count, Address, Data, and Check Sum has value zero in its seven least significant bits.

If the top of the block is appointed to the Address the XG Bulk Dump, Bulk Request will be received.

The Block is a unit that consists of the data, arranged in the list, as the Total Size.

The data types listed below are transmitted and received.(These are transmitted only after a Bulk Dump request is received.)

System Data

System Information (Transmit ONLY) Multi Effect 1 Data

Multi EQ Data (PSR-740 ONLY)
Multi EG Data (PSR-740 ONLY)
Multi Effect2 Data (PSR-740 ONLY)
Special Effect Data (PSR-740 ONLY)
Multi Part Data
A/D Part Data (PSR-740 ONLY)

Drums Setup Data

(3-6-3-3) XG PARAMETER REQUEST (Receive only)

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
0011nnnn	3n	Device Number
01001100	4C	Model ID
Oaaaaaaa	AA	Address High
0aaaaaaa	AA	Address Mid
Oaaaaaaa	AA	Address Low
11110111	F7	End of Exclusive

For more information on Address and Byte Count refer to < Table 1-2 > - < Table 1-8 >.

The data types listed below are received. System Data Multi Effect1 Data

Multi EQ Data (PSR-740 ONLY) Multi Effect2 Data (PSR-740 ONLY)

Special Effect Data (PSR-740 ONLY) Multi Part Data A/D Part Data (PSR-740 ONLY)

Drums Setup Data

(3-6-3-4) XG DUMP REQUEST (Receive only)

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
0010nnnn	2n	Device Number
01001100	4C	Model ID
00aaaaaaa	AA	Address High
00aaaaaaa	AA	Address Mid
00aaaaaaa	AA	Address Low
11110111	F7	End of Exclusive

For more information on Address and Byte Count refer to < Table 1-2 > - < Table 1-8 >.

The data types listed below are received.

System Data System Information

System mrormanon Multi Effect I Data Multi EQ Data (PSR-740 ONLY) Multi Effect Data (PSR-740 ONLY) Special Effect Data (PSR-740 ONLY) Multi Part Data

A/D Part Data (PSR-740 ONLY)

Drums Setup Data

(3-6-4) CLAVINOVA MIDI COMPLIANCE

(3-6-4-1) DOC MULTI TIMBRE ON / OFF (Receive only)

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
00000001	01	Clavinova commmon ID
00010nnn	1N	N: 3(DOC Multi Timbre Off), 4(DOC Multi Timbre On)
11110111	F7	End of Exclusive

(3-6-4-2) MIDI FA CANCEL(Receive only)

binary	hexadecimal	, , , , , , , , , , , , , , , , , , , ,
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
00000001	01	Clavinova common ID
01100001	61	MIDI FA Cancel
11110111	F7	End of Exclusive

If this message is received, even if FAH is received the accompaniment/song will not start.

(3-6-4-3) BULK DATA ORGAN FLUTE DATA (PSR-740 ONLY)

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
00000001	01	Clavinova common ID
00000110	06	Bulk ID
00001011	0B	Bulk No.(0BH : ORGAN FLUTE DATA)
00000000	00	Data Length
00000000	00	Data Length
00000001	01	Data Length
00000110	06	Data Length
0ddddddd	d1	Bulk Data 1st
0ddddddd	d22	Bulk Data 22th
00cccccc	cc	don't care
11110111	F7	End of Exclusive

[BULK

K DATA]			
1st OnH	n: channel No.		Discription
2nd Drawber	[1']	00 - 07H	0:-∞ [dB]
3rd	[1 1/3']	00 - 07H	1:-12 [dB]
4th	[aux. 1]	00H	2:-9 [dB]
5th	[2']	00 - 07H	3:-6 [dB]
6th	[2 2/3']	00 - 07H	4:-4.5 [dB]
7th	[4']	00 - 07H	5:-3 [dB]
8th	[5 1/3']	00 - 07H	6:-1.5 [dB]
9th	[8']	00 - 07H	7:0 [dB]
10th	[16']	00 - 07H	
11th	[Attack 2']	00 - 07H	
12th	[Attack 2 2/3']	00 - 07H	
13th	[Attack 4']	00 - 07H	
14th Settings	[Attack Length]	00 - 07H	
15th	[Response]	00 - 07H	
16th	[Attack Mode]	00 - 01H	00H : Each, 01 : First
17th	[Wave Variation]	00 - 01H	00H: Sine, 01H: Tone Wheel
18th	[Volume]	00 - 08H	
19th	[aux. 4]	00H	
20th	[aux. 5]	00H	
21th	[aux. 6]	00H	
22th	[aux. 7]	00H	

(3-6-5) SPECIAL OPERATORS

(3-6-5-1) VOLUME ,EXPRESSION AND PAN REALTIME CONTROL OFF

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
00000001	01	Clavinova common ID
00010001	11	Sub ID
0000nnnn	0N	N = MIDI Channel
01000101	45	Volume and Expression Realtime Control Off
0vvvvvvv	VV	Value VV: Off=7FH, on=OOH
11110111	F7	End of Exclusive

When "On" is received, subsequent volume, expression, and PAN changes are only valid after

the reception of the next key on.

Normal operation resumes when "Off" is received.

(3-6-5-2) Vocal Harmony Pitch to Note (PSR-740 ONLY)

(3-0-3-2) Vocai i	iannony Filen to	NOTE (FOILT)
binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
00000001	01	Clavinova common ID
00010001	11	Sub ID
00000000	00	Channel No. (always 00)
01010000	50	Vocal Harmony Additional Parameter Control No.
00000000	00	Pitch to Note Parameter No.
Osssssss	SS	Pitch To Note switch 00H : Off 01H : On
11110111	F7	End of Exclusive

(3-6-5-3) Voca	I Harmony Pitch to Note Part (PSR-740 ONLY)	
binary	hexadecimal	

11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
00000001	01	Clavinova common ID
00010001	11	Sub ID
00000000	00	Channel No. (always 00)
01010000	50	Vocal Harmony Additional Parameter Control No
00000001	01	Pitch to Note Part Parameter No.
Osssssss	SS	Pitch To Note Part No.
		00H: Right1
		01H: Right2
		02H : Left
		04H: Upper
11110111	F7	End of Exclusive

(3-6-5-4) Vocal Harmony Vocoder Part (Harmony Part(Panel)) (PSR-740 ONLY)

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
00000001	01	Clavinova common ID
00010001	11	Sub ID
00000000	00	Channel No. (always 00)
01010000	50	Vocal Harmony Additional Parameter Control No.
00010000	10	Vocoder Part Parameter No.
Osssssss	SS	Harmony Part No.
		00H : Off
		01H : Upper
		02H : Lower
11110111	F7	End of Exclusive

(3-6-5-5) Voval Harmony Additional Reverb Depth(Receive only) (PSR-740 ONLY)

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
00000001	01	Clavinova common ID
00010001	11	Sub ID
00000000	00	Channel No. (always 00)
01010000	50	Vocal Harmony Additional Parameter Control No.
00010001	11	Voval Harmony Additional Reverb Depth Parameter No.
Osssssss	SS	Value (0 - 7FH)
11110111	F7	End of Exclusive

(3-6-5-6) Vocal Harmony Additional Chorus Depth(Receive only) (PSR-740 ONLY)

binary	hexadecii	mal
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
00000001	01	Clavinova common ID
00010001	11	Sub ID
00000000	00	Channel No. (always 00)
01010000	50	Vocal Harmony Additional Parameter Control No.
00010010	12	Voval Harmony Additional Chorus Depth Parameter No.
Osssssss	SS	Value (0 - 7FH)
11110111	F7	End of Exclusive

(3-6-6) Others

(3-6-6-1) MIDI MASTER TUNING(Receive only)

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
0001nnnn	1N	When N is received N=0-F, whichever is received.
		When N is transmitted N always=0.
00100111	27	Model ID
00110000	30	Sub ID
00000000	00	
00000000	00	
0mmmmmmm	MM	Master Tune MSB
Ollllll	LL	Master Tune LSB
Осссссс	CC	don't care
11110111	F7	End of Exclusive

Changes tuning of all channels.

MM, LL values are used to define the MIDI Master Tuning value.

T = M-128

T : Tuning value (-99cent - +99cent) M : A single byte value (28-228) consists of bytes 0-3 of MM = MSB, bytes 0-3 of LL = LSB.

In this setting, GM System ON, XG System ON will not be reset.

MIDI Data Format

< Table 1-1> Parmeter Basic Address

	Para Add		Change					
	(H)	(M)	(L)	Description				
SYSTEM	00	00	00	System				
	00	00	7D	Drum Setup Reset				
	00	00	7E	XG System On				
	00	00	7F	All Parameter Reset				
INFORMATION	01	00	00	System Information				
EFFECT 1	02	01	00	Effect1(Reverb, Chorus, Variation)				
MULTI EQ	02	40	00	Multi EQ(PSR-740 ONLY)				
EFFECT 2	03	00	00	Effect2(PSR-740 ONLY)				
SPECIAL EFFECT	04	00	00	Special Effect2(PSR-740 ONLY)				
MULTI PART	08	00	00	Multi Part 1				
		0.77		i				
	08	0F	00	Multi Part 16				
A/D PART	10	00	00	A/D Part 1(PSR-740 ONLY)				
DRUM	30	0D	00	Drum Setup 1	Address			Parameter
	31	0D	00	Drum Setup 2	:			:
					3n	0D	0	note number 13
					3n	0E	0	note number 14
						:		:
					3n	5B	0	note number 91

<Table 1-2> MIDI Parameter Change table (SYSTEM)

Address (H)	Size (H)	Data (H)	Prameter Name	Description	Default Value (H)
00 00 00	4	0000	Master Tune	-102.4+102.3[cent]	00 04 00 00
01		07FF		1st bit3-0 \rightarrow bit15-12	(400)
02				2nd bit3-0 \rightarrow bit11-8	(With XG, GM On, it will not reset.)
03				3rd bit3-0 \rightarrow bit7-4	
				4th bit3-0 \rightarrow bit3-0	
04	1	007F	Master Volume	0127	7F
05	1		Not Used		
06	1	2858	Transpose	-24+24[semitones]	40
7D		On	Drum Setup Reset	n=Drum Setup Number	
7E		00	XG System On	00=XG Sytem on	
7F		00	All Parameter Reset	00=on (receive only)	
TOTAL SIZE 7				• • • • • • • • • • • • • • • • • • • •	

$<\!\!Table\ 1\text{-}3\!\!>\!MIDI\ Parameter\ table\ (System\ information)$

Add (H)	ress		Size (H)	Data (H)	Prameter Name	Description
01	00	00	E	207F	Model Name	32127(ASCII)
		:				
		0D				
		0E	1	00		
		0F	1	00		
TOT	TAL S	IZE 10				

(Transmitted by Dump Request. Not received. Bulk Dump Only)

<Table 1-4> MIDI Parameter Change table (EFFECT 1)

Address (H)		Size (H)	Data (H)	Prameter Name	Description	Default Value (H)
02 01	00	2	007F	Reverb Type MSB	Refer to the Ef. Type List	01(=HALL1)
02 01	00	-	007F	Reverb Type LSB	00 : basic type	00
	02	1	007F	Reverb Parameter 1	Refer to the Ef. Parameter List	Depend on Reverb type
	03	1	007F	Reverb Parameter 2	Refer to the Ef. Parameter List	Depend on Reverb type
	04	i	007F	Reverb Parameter 3	Refer to the Ef. Parameter List	Depend on Reverb type
	05	1	007F	Reverb Parameter 4	Refer to the Ef. Parameter List	Depend on Reverb type
	06	i	007F	Reverb Parameter 5	Refer to the Ef. Parameter List	Depend on Reverb type
	07	1	007F	Reverb Parameter 6	Refer to the Ef. Parameter List	Depend on Reverb type
	08	i	007F	Reverb Parameter 7	Refer to the Ef. Parameter List	Depend on Reverb type
	09	i	007F	Reverb Parameter 8	Refer to the Ef. Parameter List	Depend on Reverb type
	0A	1	007F	Reverb Parameter 9	Refer to the Ef. Parameter List	Depend on Reverb type
	0B	1	007F	Reverb Parameter 10	Refer to the Ef. Parameter List	Depend on Reverb type
	0C	1	007F	Reverb Return	-∞0+6dB(064127)	40
	0D	1	017F	Reverb Pan	L63CR63(164127)	40
TOTAL S		1	01/F	Revero Pan	L03CR03(104127)	40
02 01	10	1	007F	Reverb Parameter 11	Refer to the Ef. Parameter List	Depend on Reverb type
	11	ī	007F	Reverb Parameter 12	Refer to the Ef. Parameter List	Depend on Reverb type
	12	1	007F	Reverb Parameter 13	Refer to the Ef. Parameter List	Depend on Reverb type
	13	1	007F	Reverb Parameter 14	Refer to the Ef. Parameter List	Depend on Reverb type
	14	i	007F	Reverb Parameter 15	Refer to the Ef. Parameter List	Depend on Reverb type
	15	1	007F	Reverb Parameter 16	Refer to the Ef. Parameter List	Depend on Reverb type
TOTAL S			0071	Revers Farancier 10	Refer to the Er. I municipi Elist	Depend on Revero type
02 01	20	2	007F	Chorus Type MSB	Refer to the Ef. Type List	41(=Chorus1)
			007F	Chorus Type LSB	00 : basic type	00
	22	1	007F	Chorus Parameter 1	Refer to the Ef. Parameter List	Depend on Chorus Type
	23	1	007F	Chorus Parameter 2	Refer to the Ef. Parameter List	Depend on Chorus Type
	24	1	007F	Chorus Parameter 3	Refer to the Ef. Parameter List	Depend on Chorus Type
	25	1	007F	Chorus Parameter 4	Refer to the Ef. Parameter List	Depend on Chorus Type
	26	1	007F	Chorus Parameter 5	Refer to the Ef. Parameter List	Depend on Chorus Type
	27	1	007F	Chorus Parameter 6	Refer to the Ef. Parameter List	Depend on Chorus Type
	28	1	007F	Chorus Parameter 7	Refer to the Ef. Parameter List	Depend on Chorus Type
	29	1	007F	Chorus Parameter 8	Refer to the Ef. Parameter List	Depend on Chorus Type
	2A	1	007F	Chorus Parameter 9	Refer to the Ef. Parameter List	Depend on Chorus Type
	2B	1	007F	Chorus Parameter 10	Refer to the Ef. Parameter List	Depend on Chorus Type
	2C	ī	007F	Chorus Return	-∞0+6dB(064127)	40
	2D	1	017F	Chorus Pan	L63CR63(164127)	40
	2E	i	007F	Send Chorus To Reverb	-∞0+6dB(064127)	00
TOTAL S		•	00	bona choras to nevero		
02 01	30	1	007F	Chorus Parameter 11	Refer to the Ef. Parameter List	Depend on Chorus Type
	31	1	007F	Chorus Parameter 12	Refer to the Ef. Parameter List	Depend on Chorus Type
	32	1	007F	Chorus Parameter 13	Refer to the Ef. Parameter List	Depend on Chorus Type
	33	1	007F	Chorus Parameter 14	Refer to the Ef. Parameter List	Depend on Chorus Type
	34	1	007F	Chorus Parameter 15	Refer to the Ef. Parameter List	Depend on Chorus Type
	35	1	007F	Chorus Parameter 16	Refer to the Ef. Parameter List	Depend on Chorus Type

Address		Size	Data	Prameter Name	Description	Default Value
(H)		(H)	(H)			(H)
02 01	40	2	007F	Variation Type MSB	Refer to the Ef. Type List	05(=DELAY L,C,R)
		_	007F	Variation Type LSB	00 : basic type	00
	42	2	007F	Vari. Param. 1 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		_	007F	Vari. Param. 1 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
	44	2	007F	Vari. Param. 2 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
			007F	Vari. Param. 2 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
	46	2	007F	Vari. Param. 3 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
			007F	Vari. Param. 3 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
	48	2	007F	Vari. Param. 4 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
			007F	Vari. Param. 4 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
	4A	2	007F	Vari. Param. 5 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
			007F	Vari. Param. 5 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
	4C	2	007F	Vari. Param. 6 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
			007F	Vari. Param. 6 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
	4E	2	007F	Vari. Param. 7 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
			007F	Vari. Param. 7 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
	50	2	007F	Vari, Param, 8 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
			007F	Vari. Param. 8 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
	52	2	007F	Vari, Param, 9 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
			007F	Vari. Param. 9 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
	54	2	007F	Vari. Param. 10 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
			007F	Vari, Param, 10 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
	56	1	007F	Variation Return	-∞0+6dB(064127)	40
	57	1	017F	Variation Pan	L63CR63(164127)	40
	58	1	007F	Send Vari. To Reverb	-∞0+6dB(064127)	00
	59	1	007F	Send Vari. To Chorus	-∞0+6dB(064127)	00
	5A	1	0001	Variation Connection	0:insertion,1:system	00
	5B	1	007F	Variation Part	part116(015),AD1(64),off(1663,65127)	7F
	5C	1	007F	MW Vari. Ctrl Depth	-64+63	40
	5D	1	007F	PB Vari. Ctrl Depth	-64+63	40
	5E	1	007F	CAT Vari. Ctrl Depth	-64+63	40
	5F	1	007F	Not Used		
	60	i	007F	Not Used		
TOTAL S	IZE 21					
02 01	70	1	007F	Variation Parameter 11	option Parameter	Depend on Variation Type
	71	1	007F	Variation Parameter 12	option Parameter	Depend on Variation Type
	72	1	007F	Variation Parameter 13	option Parameter	Depend on Variation Type
	73	i	007F	Variation Parameter 14	option Parameter	Depend on Variation Type
	74	1	007F	Variation Parameter 15	option Parameter	Depend on Variation Type
	75	i	007F	Variation Parameter 16	option Parameter	Depend on Variation Type
TOTAL S	IZE 6					

$< Table \ 1-5 > MIDI \ Parameter \ Change \ table \ (MULTI \ EQ)(PSR-740 \ ONLY)$

Address (H)		Size (H)	Data (H)	Prameter Name	Description	Default Value (H)
	00	1	344C	EQ Type	0:FLAT	00
02 40	00	•	5440	EQ 19pc	1:JAZZ	00
					2:POPS	
					3:ROCK	
					4:CLASSIC	
	01	1	344C	EQ Gain1	-12+12[dB]	40
	02	1	0428	EQ Frequency1	322000[Hz]	0C
	03	1	0178	EQ Q1	0.112.0	07
	04	1	0001	EQ Shape1	00:Shelving,01:Peaking	00
	05	1	344C	EQ Gain2	-12+12[dB]	40
	06	1	0E36	EQ Frequency2	0.110[KHz]	1C
	07	1	0178	EQ Q2	0.112.0	07
	08	1		Not Used		
	09	1	344C	EQ Gain3	-12+12[dB]	40
	0A	1	0E36	EQ Frequency3	0.110[KHz]	22
	0B	1	0178	EQ Q3	0.112.0	07
	0C	1		Not Used		
	0D	1	344C	EQ Gain4	-12+12[dB]	40
	0E	1	0E36	EQ Frequency4	0.110[KHz]	2E
	0F	1	0178	EQ Q4	0.112.0	07
	10	1		Not Used		
	11	1	344C	EQ Gain5	-12+12[dB]	40
	12	1	1C3A	EQ Frequency5	0.516.0[KHz]	34
	13	1	0178	EQ Q5	0.112.0	07
	14	1	0001	EQ Shape5	00:Shelving,01:Peaking	00
TOTAL SIZ	Œ 15					

< Table 1-6 > MIDI Parameter change table (Effect2)(PSR-740 ONLY)

				•	<i>'</i>	
Address		Size	Data	Prameter Name	Description	Default Value
(H)		(H)	(H)			(H)
03 On	00	2	007F	Insertion Type MSB	Refer to the Ef. Type List "49(=DISTORTIO	N)"
			007F	Insertion Type LSB	00 : basic type	00
	02	1	007F	Insertion Parameter1	Refer to the Ef. Parameter List	Depend on Insertion Type
	03	1	007F	Insertion Parameter2	Refer to the Ef. Parameter List	Depend on Insertion Type
	04	1	007F	Insertion Parameter3	Refer to the Ef. Parameter List	Depend on Insertion Type
	05	1	007F	Insertion Parameter4	Refer to the Ef. Parameter List	Depend on Insertion Type
	06	1	007F	Insertion Parameter5	Refer to the Ef. Parameter List	Depend on Insertion Type
	07	1	007F	Insertion Parameter6	Refer to the Ef. Parameter List	Depend on Insertion Type
	08	1	007F	Insertion Parameter7	Refer to the Ef. Parameter List	Depend on Insertion Type
	09	1	007F	Insertion Parameter8	Refer to the Ef. Parameter List	Depend on Insertion Type
	0A	1	007F	Insertion Parameter9	Refer to the Ef. Parameter List	Depend on Insertion Type
	0B	1	007F	Insertion Parameter10	Refer to the Ef. Parameter List	Depend on Insertion Type
	0C	i	007F	Insertion Part	Part116,OFF	7F
	0D	1	007F	MW INS CTRL DPT		40
	0E	i	007F	BEND INS CTRL DPT		40
	0F	1	007F	CAT INS CTRL DPT		40
	10	1	007F	Not Used		
	11	1	007F	Not Used		
TOTAL S	IZE 12					
02 0-	20	1	00 TE	Incoming Demonstrati	Defeate the Eff Demonstra Line	Daniel and Investigation 1 Trees
03 On	20	1	007F	Insertion Parameter 11	Refer to the Ef. Parameter List	Depend on Insertion 1 Type
	21	1	007F	Insertion Parameter12	Refer to the Ef. Parameter List	Depend on Insertion 1 Type
	22	1	007F	Insertion Parameter13	Refer to the Ef. Parameter List	Depend on Insertion 1 Type
	23	1	007F	Insertion Parameter14	Refer to the Ef. Parameter List	Depend on Insertion 1 Type
	24	1	007F	Insertion Parameter15	Refer to the Ef. Parameter List	Depend on Insertion 1 Type
	25	1	007F	Insertion Parameter16	Refer to the Ef. Parameter List	Depend on Insertion 1 Type
TOTAL S	IZE 06					

MIDI Data Format

Add (H)	lress		Size (H)	Data (H)	Prameter Name	Description	Default Value (H)
03	0n	30	2	007F 007F	Ins. Param.1 MSB Ins. Param.1 LSB	Refer to the Ef. Parameter List Refer to the Ef. Parameter List	Depend on Insertion Type Depend on Insertion Type
03	0n	32	2	007F	Ins. Param.2 MSB	Refer to the Ef. Parameter List	Depend on Insertion Type
				007F	Ins. Param.2 LSB	Refer to the Ef. Parameter List	Depend on Insertion Type
03	0n	34	2	007F	Ins. Param.3 MSB	Refer to the Ef. Parameter List	Depend on Insertion Type
				007F	Ins. Param.3 LSB	Refer to the Ef. Parameter List	Depend on Insertion Type
03	0n	36	2	007F	Ins. Param.4 MSB	Refer to the Ef. Parameter List	Depend on Insertion Type
				007F	Ins. Param.4 LSB	Refer to the Ef. Parameter List	Depend on Insertion Type
03	0n	38	2	007F	Ins. Param.5 MSB	Refer to the Ef. Parameter List	Depend on Insertion Type
				007F	Ins. Param.5 LSB	Refer to the Ef. Parameter List	Depend on Insertion Type
03	0n	3A	2	007F	Ins. Param.6 MSB	Refer to the Ef. Parameter List	Depend on Insertion Type
				007F	Ins. Param.6 LSB	Refer to the Ef. Parameter List	Depend on Insertion Type
03	0n	3C	2	007F	Ins. Param.7 MSB	Refer to the Ef. Parameter List	Depend on Insertion Type
				007F	Ins. Param.7 LSB	Refer to the Ef. Parameter List	Depend on Insertion Type
03	0n	3E	2	007F	Ins. Param.8 MSB	Refer to the Ef. Parameter List	Depend on Insertion Type
				007F	Ins. Param.8 LSB	Refer to the Ef. Parameter List	Depend on Insertion Type
03	0n	40	2	007F	Ins. Param.9 MSB	Refer to the Ef. Parameter List	Depend on Insertion Type
				007F	Ins. Param.9 LSB	Refer to the Ef. Parameter List	Depend on Insertion Type
03	0n	42	2	007F	Ins. Param.10 MSB	Refer to the Ef. Parameter List	Depend on Insertion Type
				007F	Ins. Param.10 LSB	Refer to the Ef. Parameter List	Depend on Insertion Type
TO	DAT C	T7E 14					

TOTAL SIZE 14

For effect types that do not require MSB, the Parameters for Address 02-0B will be received. Address 30-42 will not be received. For effect types that require MSB, the Parameters for Address 30-42 will be received. Address 02-0B will not be received. When Bulk Dumps that include Effect Type data are transmitted, the Parameters for Address 02 - 0B will always be transmitted. But, effects that require MSB, when the bulk dump is received the Parameters for Address 02 - 0B will not be received. n=Insertion Effect No.(0-1)

$< Table \ 1-7 > MIDI \ Parameter \ Change \ table \ (SPECIAL \ EFFECT) \ (PSR-740 \ ONLY)$

Address (H)		Size (H)	Data (H)	Prameter Name	Description (H)	Default Value (H)
04 00	00	2	007F	I Fee T MCD	. ,	
04 00	00	2	007F 007F	Insertion Effect Type MSB Insertion Effect Type LSB	Refer to the Effect Map 00 : basic type	49(=DISTORTION) 00
	02	1	007F	Insertion Effect Parameter1	Refer to the Ef. Parameter List	
		1				depends on insertion 1 type
	03	1	007F	Insertion Effect Parameter2	Refer to the Ef. Parameter List	depends on insertion 1 type
	04	1	007F	Insertion Effect Parameter3	Refer to the Ef. Parameter List	depends on insertion 1 type
	05	1	007F	Insertion Effect Parameter4	Refer to the Ef. Parameter List	depends on insertion 1 type
	06	1	007F	Insertion Effect Parameter5	Refer to the Ef. Parameter List	depends on insertion 1 type
	07	1	007F	Insertion Effect Parameter6	Refer to the Ef. Parameter List	depends on insertion 1 type
	08	1	007F	Insertion Effect Parameter7	Refer to the Ef. Parameter List	depends on insertion 1 type
	09	1	007F	Insertion Effect Parameter8	Refer to the Ef. Parameter List	depends on insertion 1 type
	0A	1	007F	Insertion Effect Parameter9	Refer to the Ef. Parameter List	depends on insertion 1 type
	0B	1	007F	Insertion Effect Parameter 10	Refer to the Ef. Parameter List	depends on insertion 1 type
	0C	1	007F	Insertion Effect Part	Part116(015)	7F
					AD1(64)	
					Off(1663, 65127)	
	0D	1	007F	Not Used		
	0E	1	007F	Not Used		
	0F	1	007F	Not Used		
	10	1	007F	Not Used		
	11	1	007F	Not Used		
TOTAL S	SIZE 12					
04 00	14	1	007F	Unique Insertion Effect External	116(015)	7F
				Control CH1(Harmony Channel)	Off(127)	
	15	1	007F	Unique Insertion Effect External	116(015)	7F
				Control CH2(Melody Channel)	Off(127)	
TOTAL S	SIZE 2					
04 00	20	1	007F	Insertion Effect Parameter11	Refer to the Ef. Parameter List	depends on insertion 1 type
	21	1	007F	Insertion Effect Parameter 12	Refer to the Ef. Parameter List	depends on insertion 1 type
	22	1	007F	Insertion Effect Parameter13	Refer to the Ef. Parameter List	depends on insertion 1 type
	23	1	007F	Insertion Effect Parameter14	Refer to the Ef. Parameter List	depends on insertion 1 type
	24	1	007F	Insertion Effect Parameter15	Refer to the Ef. Parameter List	depends on insertion 1 type
	25	1	007F	Insertion Effect Parameter16	Refer to the Ef. Parameter List	depends on insertion 1 type
TOTAL S	SIZE 6					•

< Table 1-8 > MIDI Parameter Change table (MULTI PART)

<	< Table 1-8 > MIDI Parameter Change table (MULTI PART)										
Ad (H	ddress		Size (H)	Data (H)	Prameter Name	Description	Default Value (H)				
08	nn	00	1	0020	Element Reserve	032	0(Part10),2(Others)				
	nn	01	1	007F	Bank Select MSB	0127	7F(Part10),00(Others)				
	nn	02	1	007F	Bank Select LSB	0127	00				
	nn	03	1	007F	Program Number	1128	00				
	nn	04	1	000F, 7F	Rcv Channel	016;116,127;off	Part No.				
	nn	05	1	0001	Mono/Poly Mode	0:mono,1:poly	01				
	nn	06	1	0002	Same Note Number	0:single	00				
					Key On Assign	1:multi 2:inst (for DRUM)					
	nn	07	1	0003	Part Mode	0:normal 13:drum thru,drum12	00 (Except Part10) 02 (Part10)				
	nn	08	1	2858	Note Shift	-24+24[semitones]	40				
	nn	09	2	00FF	Detune	-12.8+12.7[Hz]	08 00				
	nn	0A				1st bit30 \rightarrow bit74	(80)				
						2nd bit30 \rightarrow bit30					
	nn	0B	1	007F	Volume	0127	64				
	nn	0C	1	007F	Velocity Sense Depth	0127	40				
	nn	0D	1	007F	Velocity Sense Offset	0127	40				
	nn	0E	1	007F	Pan	0:random	40				
						L63CR63(164127)					
	nn	0F	1	007F	Note Limit Low	C-2G8	00				
	nn	10	1	007F	Note Limit High	C-2G8	7F				
	nn	11	1	007F	Dry Level	0127	7F				
	nn	12	1	007F	Chorus Send	0127	00				
	nn	13	1	007F	Reverb Send	0127	28				
	nn	14	1	007F	Variation Send	0127	00				
	nn	15	1	007F	Vibrato Rate	-64+63	40				
	nn	16	1	007F	Vibrato Depth	-64+63	40				
	nn	17	1	007F	Vibrato Delay	-64+63	40				
	nn	18	1	007F	Filter Cutoff Freq.	-64+63	40				
	nn	19	1	007F	Filter Resonance	-64+63	40				
	nn	1A	1	007F	EG Attack Time	-64+63	40				
	nn	1B	1	007F	EG Decay Time	-64+63	40				
	nn	1C	1	007F	EG Release Time	-64+63	40				

Address (H)		Size (H)	Data (H)	Prameter Name	Description	Default Value (H)
nn	1D	1	2858	MW Pitch Control	-24+24[semitones]	40
nn	1E	1	007F	MW Filter Control	-9600+9450[cent]	40
nn	1F	1	007F	MW Amp. Control	-100+100[%]	40
nn	20	1	007F	MW LFO PMod Depth	0127	0A
nn	21	1	007F	MW LFO FMod Depth	0127	00
nn	22	1	007F	MW LFO AMod Depth	0127	00
nn	23	1	2858	Bend Pitch Control	-24+24[semitones]	42
nn	24	1	007F	Bend Filter Control	-9600+9450[cent]	40
nn	25	1	007F	Bend Amp. Control	-100+100[%]	40
nn	26	1	007F	Bend LFO PMod Depth	0127	00
nn	27	1	007F	Bend LFO FMod Depth	0127	00
nn	28	1	007F	Bend LFO AMod Depth	0127	00
TOTAL S	SIZE 29			· · · · · · · · · · · · · · · · · · ·		
nn	30			Not Used		
nn	: 40			: Not Used		
nn	41	1	007F	Scale Tuning C	-64+63[cent]	40
nn	42	1	007F	Scale Tuning C#	-64+63[cent]	40
nn	43	1	007F	Scale Tuning D	-64+63[cent]	40
nn	44	1	007F	Scale Tuning D#	-64+63[cent]	40
nn	45	1	007F	Scale Tuning D#	-64+63[cent]	40
	46	1	007F	Scale Tuning E Scale Tuning F	-64+63[cent]	40
nn	47	1	007F	Scale Tuning F Scale Tuning F#	-64+63[cent]	40
nn	48	1				
nn			007F	Scale Tuning G	-64+63[cent]	40
nn	49	1	007F	Scale Tuning G#	-64+63[cent]	40
nn	4A	1	007F	Scale Tuning A	-64+63[cent]	40
nn	4B	1	007F	Scale Tuning A#	-64+63[cent]	40
nn	4C	1	007F	Scale Tuning B	-64+63[cent]	40
nn	4D	1	2858	CAT Pitch Control	-24+24[semitones]	40
nn	4E	1	007F	CAT Filter Control	-9600+9450[cent]	40
nn	4F	1	007F	CAT Amplitude Control	-100+100[%]	40
nn	50	1	007F	CAT LFO PMod Depth	0127	00
nn	51	1	007F	CAT LFO FMod Depth	0127	00
nn	52	1	007F	CAT LFO AMod Depth	0127	00
nn	53 :			Not Used		
	66			Not Used		
nn	67	1	0001	Portamento Switch	off/on	00
nn	68	1	007F	Portamento Time	0127	00
nn	69			Not Used		
	:			: Not Head		
mom + * ·	6E			Not Used		
TOTAL S	SIZE 3F					

nn = PartNumber

Hank Select LSB
 Soft Pedal
 Pitch EG
 Portamento
 Soft Pedal
 Mono/Poly
 Scale Tuning

< Table 1-9 > MIDI Parameter Change table (A/D PART) (PSR-740 ONLY)

Address (H)		Size (H)	Data (H)	Prameter Name	Description	Default Value (H)
10 nn	00	1	` /	Not Use		` /
	01	1		Not Use		
	02	1		Not Use		
	03	1		Not Use		
	04	1	000F, 7F	Rcv Channel	A1A16, OFF	7F
	05	1		Not Use		
	:					
	0A	1		Not Use		
	0B	1	007F	Volume	0127	00
	0C	1		Not Use		
	0D	1		Not Use		
	0E	1	017F	Pan	L63CR63 (1127)	40
	0F	1		Not Use		
	10	1		Not Use		
	11	1	007F	Dry Level	0127	7F
	12	1	007F	Chorus Send	0127	00
	13	1	007F	Reverb Send	0127	00
	14	1	007F	Variation Send	0127	00
TOTAL S	IZE 15					

< Table 1-10 > MIDI Parameter Change table (DRUM SETUP)

Addı	ress		Size	Data	Prameter Name	Description	Default Value
(H)	. 000		(H)	(H)	Transcer Transc	(H)	(H)
3n	rr	00	1	007F	Pitch Coarse	-64+63	40
3n	rr	01	1	007F	Pitch Fine	-64+63[cent]	40
3n	rr	02	1	007F	Level	0127	Depend on the Note
3n	rr	03	1	007F	Alternate Group	0:off,1127	Depend on the Note
3n	rr	04	1	007F	Pan	0:random	Depend on the Note
						L63CR63(164127)	•
3n	rr	05	1	007F	Reverb Send Level	0127	Depend on the Note
3n	rr	06	1	007F	Chorus Send Level	0127	Depend on the Note
3n	rr	07	1	007F	Variation Send Level	0127	7F
3n	rr	08	1	0001	Key Assign	0:single,1:multi	00
3n	rr	09	1	0001	Rcv Note Off	off/on	Depend on the Note
3n	rr	0A	1	0001	Rcv Note On	off/on	01
3n	rr	0B	1	007F	Filter Cutoff Freq.	-6463	40
3n	rr	0C	1	007F	Filter Resonance	-6463	40
3n	rr	0D	1	007F	EG Attack Rate	-6463	40
3n	rr	0E	1	007F	EG Decay1 Rate	-6463	40
3n	rr	0F	1	007F	EG Decay2 Rate	-6463	40
TOT	AL S	SIZE 10					

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norm Setup Number(0-1)
rr:note number(0DH - 5BH)
If XG SYSTEM ON and/or GM On message is received, all Drum Setup Parameter will be reset to default values.
According to the Drum Setup Reset message, individual Drum Setup Parameters can be reset to default values.

MIDI Data Format

< Table 1-11 > Effect Type List

XG ESSENTIAL EFFECT
Same as LSB=0
XG OPTION EFFECT
XG OPTION EFFECT(only PSR-740)
Expanded type for PSR-740/640
* If the received value does not contain an effect type in the TYPE LSB, the LSB will be directed to TYPE 0.
* Panel Effects are based on the "[Number] Effect Name".

REVERB TYPE (PSR-740/640)

TYPE	MSB	TYPE LSB										
DEC	HEX	00	01	02	0307	08	0915	16	17	18	19	20
000	00	NO EFFECT										
001	01	[1]HALL1	[5]HALL2					[2]HALL2	[3]HALL3	[4]HALL4		
002	02		[11]ROOM2	[12]ROOM3				[6]ROOM1	[7]ROOM2	[8]ROOM3	[9]ROOM4	
003	03	[15]STAGE1	[16]STAGE2					[13]STAGE1	[14]STAGE2			
004	04	[19]PLATE						[17]PLATE1	[18]PLATE2			
005	05	NO EFFECT										
:		:										
015	0F	NO EFFECT										
016		[20]WHITE ROOM										
017		[21]TUNNEL										
018		[22]CANYON										
019	13	[23]BASEMENT										
020	14	NO EFFECT										
:	:	:										
127	7F	NO EFFECT										

CHORUSTYPE (PSR-740/640)

TYPE	MSB	TYPE LSB										
DEC	HEX	00	01	02	0307	08	0915	16	17	18	19	20
000	00	NO EFFECT										
001	01	NO EFFECT										
:	:	:										
064	40	NO EFFECT										
065	41	[6]CHORUS1	[7]CHORUS2	[5]CHORUS5		[8]CHORUS4						
066	42	[9]CELESTE1		[10]CELESTE3		[2]CHORUS2		[3]CHORUS3	[1]CHORUS1			
067	43	[15]FLANGER 1	[14]FLANGER4			[11]FLANGER1			[13]FLANGER3			
068	44	[17]SYMPHONIC						[16]Symphonic				
		(PSR-740)						(PSR-740)				
069	45	NO EFFECT										
:	:	:										
071	47	NO EFFECT										
072	48	[18]PHASER 1										
		(PSR-740)										
073	49	NO EFFECT										
:	:	:										
086	56	NO EFFECT										
087	57	[19]ENSEMBLE										
		DETUNE(PSR-740)										
088	58	NO EFFECT										
:		:										
127	7F	NO EFFECT										

VARIATION TYPE (0-63) (PSR-640)

TYPE	MSB	TYPE LSB										
DEC	HEX	00	01	02	0307	08	0915	16	17	18	19	20
000	00	NO EFFECT										
001	01	[1]HALL1	[5]HALL2					[2]HALL2	[3]HALL3	[4]HALL4		
002	02	[10]ROOM1	[11]ROOM2	[12]ROOM3				[6]ROOM1	[7]ROOM2	[8]ROOM3	[9]ROOM4	
003	03	[15]STAGE1	[16]STAGE2					[13]STAGE1	[14]STAGE2			
004	04	[19]PLATE						[17]PLATE1	[18]PLATE2			
005	05	[21]DELAY L,C,R						[20]Delay LCR				
006	06	[22]DELAY L,R										
007	07	[23]ECHO										
800	08	[24]CROSS DELAY										
009	09	[25]ER1	[26]ER2									
010	0A	[27]GATE REVERB										
011	0B	[28]REVERS GATE										
012	0C	NO EFFECT or THRU*										
:	:	:										
019	13	NO EFFECT or THRU*										
020	14	[29]KARAOKE 1	[30]KARAOKE 2	[31]KARAOKE 3								
021	15	NO EFFECT or THRU*										
:	:	:										
063	3F	NO EFFECT or THRU*										
No effect w	hen Effect C	onnection = System.										

Through when Effect Connection = System.

VARIATION TYPE (64-127) (PSR-640)

TYPE	MSB	TYPE LSB										
DEC	HEX	00	01	02	0307	08	0915	16	17	18	19	20
064	40	THRU										
065	41	[37]CHORUS1	[38]CHORUS2			[39]CHORUS4						
066	42			[41]CELESTE3		[33]CHORUS2			[32]CHORUS1	[53]Rotary Sp5		
067	43	[46]FLANGER 1	[45]FLANGER 4			[42]FLANGER1		[43]FLANGER2	[44]FLANGER3			
068	44	[48]SYMPHONIC						[47]Symphonic				
069	45	[54]ROTARY SP.						[49]Rotary Sp1				
070	46	[57]TREMOLO						[55]Tremolo1	[52]Rotary Sp4			
071	47	[60]AUTO PAN						[59]AutoPan	[50]Rotary Sp2	[51]Rotary Sp3	[56]Tremolo2	[58]Gtr Tremolo
072	48	[61]PHASER				[62]PHASER 2						
073	49	[65]DISTORTION										
074	4A	[66]OVER DRIVE										
075	4B	[67]AMP SIM.						[63]DIST.HARD				
076	4C	[70]3BAND EQ						[68]EQ DISCO	[69]EQ TEL			
077	4D	[71]2BAND EQ										
078	4E	[73]AUTO WAH						[72]Auto Wah				
079	4F	NO EFFECT or THRU*										
:	:	:										
127	7F	NO EFFECT or THRU*										

^{*} No effect when Effect Connection = System.
Through when Effect Connection = Insertion.

VARIATION TYPE (0-63) (PSR-740)

TYPE	MSB	TYPE LSB										
DEC	HEX	00	01	02	0307	08	0915	16	17	18	19	20
000	00	NO EFFECT										
001	01	[1]HALL1	[5]HALL2					[2]HALL2	[3]HALL3	[4]HALL4		
002	02	[10]ROOM1	[11]ROOM2	[12]ROOM3				[6]ROOM1	[7]ROOM2	[8]ROOM3	[9]ROOM4	
003	03	[15]STAGE1	[16]STAGE2					[13]STAGE1	[14]STAGE2			
004	04	[19]PLATE						[17]PLATE1	[18]PLATE2			
005	05	[21]DELAY L,C,R						[20]Delay LCR				
006	06	[22]DELAY L,R										
007	07	[23]ECHO										
800	08	[24]CROSS DELAY										
009	09	[25]ER1	[26]ER2									
010	0A	[27]GATE REVERB										
011	0B	[28]REVERS GATE										
012	0C	NO EFFECT or THRU*										
:	:	:										
015	0F	NO EFFECT or THRU*										
016	10	[29]WHITE ROOM										
017	11	[30]TUNNEL										
018	12	[31]CANYON										
019	13	[32]BASEMENT										
020	14	[33]KARAOKE 1	[34]KARAOKE 2	[35]KARAOKE 3								
021	15	NO EFFECT or THRU*										
:	:	:										
063	3F	NO EFFECT or THRU*										

Through when Effect Connection = System.

Through when Effect Connection = Insertion.

VARIATION TYPE (64-127) (PSR-740)

TYPE		TYPE LSB										
DEC	HEX	00	01	02	0307	08	0915	16	17	18	19	20
064	40	THRU		<u>, </u>								
065	41	[41]CHORUS1	[42]CHORUS2	[40]CHORUS5		[43]CHORUS4						
066	42	[44]CELESTE1	[39]CHORUS4	[45]CELESTE3		[37]CHORUS2		[38]CHORUS3	[36]CHORUS1	[57]Rotary Sp5		
067	43	[50]FLANGER 1	[49]FLANGER 4	(40)		[46]FLANGER1		[47]FLANGER2	[48]FLANGER3	(er) reason y epe		
068	44	[52]SYMPHONIC	(10)			(-,		[51]Symphonic	(10)			
069	45	[58]ROTARY SP.						[53]Rotary Sp1				
070	46	[62]TREMOLO						[60]Tremolo1	[56]Rotary Sp4			
071	47	[65]AUTO PAN						[64]AutoPan	[54]Rotary Sp2	[55]Rotary Sp3	[61]Tremolo2	[63]Gtr Tremolo
072	48	[66]PHASER				[67]PHASER 2				(,		
073	49	[70]DISTORTION	[72]COMP +DISTORTION									
074	4A	[71]OVER DRIVE										
075	4B	[73]AMP SIM.						[68]DIST.HARD	[69]DIST.SOFT			
076	4C	[76]3BAND EQ						[74]EQ DISCO	[75]EQ TEL			
077	4D	[77]2BAND EQ										
078	4E	[79]AUTO WAH	[82]AUTO WAH +DIST	(83)AUTO WAH +OVERDRIVE				[78]Auto Wah				
079	4F	THRU										
080	50	[89]PITCH CHANGE1	[90]PITCH CHANGE2									
081	51	[84]HARMONIC ENHANCER										
082	52	[80]TOUCH WAH 1	(85)TOUCH WAH +DIST	[86]TOUCH WAH +OVERDRIVE		[81]TOUCH WAH 2						
083	53	[87]COMPRESSOR										
084	54	[88]NOISE GATE										
085	55	[91]VOICE CANCEL										
086	56	[59]2WAY ROTARY SP										
087	57	[92]ENSEMBLE DETUNE										
088	58	[93]AMBIENCE										
089	59	THRU										
:	:											
092	5C	THRU										
093	5D	[94]TALKING MODULATOR										
094 095	5E 5F	[95]LO-FI	(OZIO) (EDDDI) (E									
		[96]DIST+DELAY	[97]OVERDRIVE +DELAY									
096	60	[98]COMP+DIST +DELAY	(99)COMP +OVERDRIVE +DELAY									
097	61	[100]WAH+DIST +DELAY	[101]WAH +OVERDRIVE +DELAY									
098	62	THRU										
:	:											
127	7F	THRU										

INSERTIONTYPE (PSR-740)

	MSB	TYPE LSB										
DEC	HEX	00	01	02	0307	08	0915	16	17	18	19	20
000	0	THRU										
001	1	[1]HALL 1	[5]HALL 2					[2]HALL2	[3]HALL3	[4]HALL4		
002	2	[10]ROOM 1	[11]ROOM 2	[12]ROOM 3				[6]ROOM1	[7]ROOM2	[8]ROOM3	[9]ROOM4	
003	3	[15]STAGE 1	[16]STAGE 2					[13]STAGE1	[14]STAGE2			
004	4	[19]PLATE						[17]PLATE1	[18]PLATE2			
005	5	[21]DELAY L,C,R						[20]Delay LCR				
006	6	[22]DELAY L,R										
007	7	[23]ECHO										
008	8	[24]CROSS DELAY										
009	9	THRU										
:	:	:										
019	13	THRU										
020	14	[25]KARAOKE 1	[26]KARAOKE 2	[27]KARAOKE 3								
021	15	THRU										
:	:	:										
064	40	THRU										
065	41	[33]CHORUS 1	[34]CHORUS 2	[32]CHORUS 3		[35]CHORUS 4						
066	42	[36]CELESTE 1	[31]CELESTE 2	[37]CELESTE 3		[29]CELESTE 4				[49]Rotary Sp5		
067	43	[42]FLANGER 1	[41]FLANGER 2			[38]FLANGER 3		[39]FLANGER2	[40]FLANGER3			
068	44	[44]SYMPHONIC						[43]Symphonic				
069	45	[50]ROTARY SPEAKER 1						[45]Rotary Sp1				
070	46	[53]TREMOLO						[51]Tremolo1	[48]Rotary Sp4			
071	47	[56]AUTO PAN						[55]AutoPan	[46]Rotary Sp2	[47]Rotary Sp3	[52]Tremolo2	[54]Gtr Tremolo
072	48	[57]PHASER 1										
073	49	[60]DISTORTION										
074		[61]OVER DRIVE										
075	4B	[62]AMP SIMULATOR							[59]DIST.SOFT			
076	4C	[65]3-BAND EQ						[63]EQ DISCO	[64]EQTEL			
077	4D	[66]2-BAND EQ										
078	4E	[68]AUTO WAH(LFO)						[67]Auto Wah				
079	4F	THRU										
080	50	THRU										
081	51	[69]HARMONIC ENHANCER										
082	52	[70]TOUCH WAH 1				[71]TOUCH WAH 2						
083	53	[72]COMPRESSOR										
084	54	[73]NOISE GATE										
085	55	THRU										
086	56	THRU										
087	57	[74]ENSEMBLE DETUNE										
088	58	THRU										
:	:	:										
127	7F	THRU										

< Table 1-12 > Effect Parameter List

HALL1 HALL2 ROOM1 ROOM2 ROOM3	STAGE1 STAGE2 PLATE	reverb variation insertion block)	

No.	Parameter	Display	Value	See Table	Comment	Control
1	Reverb Time	0.3-30.0s	0-69	table#4		
2	Diffusion	0-10	0-10			
3	Initial Delay	0.1mS-99.3mS	0-63	table#5		
4	HPF Cutoff	Thru-8.0kHz	0-52	table#3		
5	LPF Cutoff	1.0k-Thru	34-60	table#3		
6						
7						
8						
.9	l					_
10	Dry/Wet	D63>W - D=W - D <w63< td=""><td>1-127</td><td></td><td></td><td>•</td></w63<>	1-127			•
11	Rev Delav	0.1mS-99.3mS	0-63	table#5		
				table#5	DOD 740	
12	Density	0-4 (reverb, variation block)	0-4 0-3		PSR-740	
		0-4 (reverb, variation block) 0-2 (insertion block)	0-3		PSR-640	
13	Er/Rev Balance	F63>R - F≡R - F <r63< td=""><td>1-127</td><td>l</td><td>l</td><td>l</td></r63<>	1-127	l	l	l
14	High Damp	0.1-1.0	1-10			
15	Feedback Level	-63-+63	1-127	l	l	l
16	I CCUDACK LEVEI	-03-103	1-12/	l	l	l
	l	I.			l	

No.	Parameter	Display	Value	See Table	Comment	Control
1	Reverb Time	0.3-30.0s	0-69	table#4		
2	Diffusion	0-10	0-10			
3	Initial Delay	0.1mS-99.3mS	0-63	table#5		
4 5	HPF Cutoff	Thru-8.0kHz	0-52	table#3		
	LPF Cutoff	1.0k-Thru	34-60	table#3		
6	Width	0.5-10.2m	0-37	table#11		
7	Heigt	0.5-20.2m	0-73	table#11		
8	Depth	0.5-30.2m	0-104	table#11		
9	Wall Vary	0-30	0-30			
10	Dry/Wet	D63>W - D=W - D <w63< td=""><td>1-127</td><td></td><td></td><td>•</td></w63<>	1-127			•
11	Rev Delay	0.1mS-99.3mS	0-63	table#5		
12	Density	0-4	0-4		PSR-740	
	1	0-4	0-3		PSR-640	
13	Er/Rev Balance	E63>R - E=R - E <r63< td=""><td>1-127</td><td></td><td></td><td>I</td></r63<>	1-127			I
14	High Damp	0.1-1.0	1-10		PSR-740 only	I
15	Feedback Level	-63-+63	1-127			
16	1					I

DELAY L,C,R (variation, insertion block)

	.,C,R (variation, insertion b	··· <i>'</i>				
No.	Parameter	Display	Value	See Table	Comment	Control
1	Lch Delay	0.1-715.0ms (variation block) 0.1-715.0ms (Insertion block)	1-7150 1-7150			
2	Rch Delay	0.1-715.0ms (variation block)	1-7150 1-7150			
3	Cch Delay	0.1-715.0ms (Insertion block) 0.1-715.0ms (variation block)	1-7150			
4	Feedback Delay	0.1-715.0ms (Insertion block) 0.1-715.0ms (variation block) 0.1-715.0ms (Insertion block)	1-7150 1-7150 1-7150			
5	Feedback Level	-63-+63	1-127			
6	Cch Level	0-127	0-127			
7	High Damp	0.1-1.0	1-10			
8 9						
10	Dry/Wet	D63>W - D=W - D <w63< td=""><td>1-127</td><td></td><td></td><td>•</td></w63<>	1-127			•
11						
12						
13	EQ Low Frequency	32Hz-2.0kHz 50Hz-2.0kHz	4-40 8-40	table#3 table#3	PSR-740 PSR-640	
14	EQ Low Gain	-12-+12dB	52-76			
15	EQ High Frequency	500Hz-16.0kHz	28-58	table#3		
16	EQ High Gain	-12-+12dB	52-76			

DELAY L,R (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Lch Delay	0.1-715.0ms (variation block)	1-7150			
		0.1-715.0ms (Insertion block)	1-7150			
2	Rch Delay	0.1-715.0ms (variation block)	1-7150			
	1	0.1-715.0ms (Insertion block)	1-7150			
3	Feedback Delay 1	0.1-715.0ms (variation block)	1-7150			
		0.1-715.0ms (Insertion block)	1-7150			
4	Feedback Delay 2	0.1-715.0ms (variation block)	1-7150			
		0.1-715.0ms (Insertion block)	1-7150			
5	Feedback Level	-63-+63	1-127			
6	High Damp	0.1-1.0	1-10			
7						
8 9						
10	Dry/Wet	D63>W - D=W - D <w63< td=""><td>1-127</td><td></td><td></td><td>•</td></w63<>	1-127			•
11						
12						
13	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	PSR-740	
		50Hz-2.0kHz	8-40	table#3	PSR-640	
14	EQ Low Gain	-12-+12dB	52-76	tabiono	1 011 010	
15	EQ High Frequency	500Hz-16.0kHz	28-58	table#3		
16	EQ High Gain	-12-+12dB	52-76			1

ECHO (variation, insertion block)

ECHO (V	ariation, insertion block)					
No.	Parameter	Display	Value	See Table	Comment	Control
1	Lch Delay1	0.1-355.0ms (variation block) 0.1-355.0ms (insertion block)	1-3550 1-3550			
2	Lch Feedback Level	-63-+63	1-127			
3	Rch Delay1	0.1-355.0ms (variation block) 0.1-355.0ms (insertion block)	1-3550 1-3550			
4	Rch Feedback Level	-63-+63	1-127			
5	High Damp	0.1-1.0	1-10			
6	Lch Delay2	0.1-355.0ms (variation block)	1-3550			
7	But Bullion	0.1-355.0ms (insertion block)	1-3550			
/	Rch Delay2	0.1-355.0ms (variation block)	1-3550			
8 9	Delay2 Level	0.1-355.0ms (insertion block) 0-127	1-3550 0-127			
10	Dry/Wet	D63>W - D=W - D <w63< td=""><td>1-127</td><td></td><td></td><td>•</td></w63<>	1-127			•
11 12						
13	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	PSR-740	
"	La con rioquency	50Hz-2.0kHz	8-40	table#3	PSR-640	
14	EQ Low Gain	-12-+12dB	52-76		1	1
15	EQ High Frequency	500Hz-16.0kHz	28-58	table#3		1
16	EQ High Gain	-12-+12dB	52-76			

CROSS DELAY (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	L->R Delay	0.1-355.0ms (variation block)	1-3550			
	·	0.1-355.0ms (insertion block)	1-3550			
2	R->L Delay	0.1-355.0ms (variation block)	1-3550			
	· ·	0.1-355.0ms (insertion block)	1-3550			
3	Feedback Level	-63-+63	1-127			
4	Input Select	L,R,L&R	0-2			
5	High Damp	0.1-1.0	1-10			
6	· ·					
7						
8						
9						
10	Dry/Wet	D63>W - D=W - D <w63< td=""><td>1-127</td><td></td><td></td><td>•</td></w63<>	1-127			•
11						
12						
13	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	PSR-740	
1		50Hz-2.0kHz	8-40	table#3	PSR-640	
14	EQ Low Gain	-12-+12dB	52-76	l		
15	EQ High Frequency	500Hz-16.0kHz	28-58	table#3		
16	EQ High Gain	-12-+12dB	52-76			

EARLY REF1,EARLY REF2(variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Type	S-H, L-H, Rdm, Rvs, Plt, Spr	0-5			
2	Room Size	0.1-7.0	0-44	table#6		
3	Diffusion	0-10	0-10			
4	Initial Delay	0.1mS-99.3mS	0-63	table#5		
5	Feedback Level	-63-+63	1-127			
6	HPF Cutoff	Thru-8.0kHz	0-52	table#3		
7	LPF Cutoff	1.0k-Thru	34-60	table#3		
8						
9						
10	Dry/Wet	D63>W - D=W - D <w63< td=""><td>1-127</td><td></td><td></td><td>•</td></w63<>	1-127			•
11	Liveness	0-10	0-10			
12	Density	0-3	0-3			
13	High Damp	0.1-1.0	1-10			
14						
15			1			
16			1			

GATE REVERB, REVERSE GATE (variation block)

		= (• aa				
No.	Parameter	Display	Value	See Table	Comment	Control
1	Type	TypeA,TypeB	0-1			
2	Room Size	0.1-20.0	0-127	table#6		
3	Diffusion	0-10	0-10			
4	Initial Delay	0.1mS-200.0mS	0-127	table#5		
5	Feedback Level	-63-+63	1-127			
6	HPF Cutoff	Thru-8.0kHz	0-52	table#3		
7	LPF Cutoff	1.0k-Thru	34-60	table#3		
8						
9						
10	Dry/Wet	D63>W - D=W - D <w63< td=""><td>1-127</td><td></td><td></td><td>•</td></w63<>	1-127			•
11	Liveness	0-10	0-10			
12	Density	0-3	0-3			
13	High Damp	0.1-1.0	1-10			
14	,					
15	1			1		1
16						

KARAOKE1,2,3 (variation, insertion block)

NANAONE 1,2,5 (Variation, inscribin block)						
No.	Parameter	Display	Value	See Table	Comment	Control
1	Delay Time	0.1mS-400.0mS	0-127	table#7		
2	Feedback Level	-63-+63	1-127			
3	HPF Cutoff	Thru-8.0kHz	0-52	table#3		
4	LPF Cutoff	1.0k-Thru	34-60	table#3		
5						
6						
7						
8						
9						_
10	Dry/Wet	D63>W - D=W - D <w63< td=""><td>1-127</td><td></td><td></td><td>•</td></w63<>	1-127			•
1						
11						
12						
13						
14						
15						
16						

CHORUS1,2,3,4, CELESTE1,2,3,4 (chorus, variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	LFO Frequency	0.00Hz-39.7Hz	0-127	table#1		
2	LFO Depth	0-127	0-127			
3	Feedback Level	-63-+63	1-127			
4	Delay Offset	0.0mS-50mS	0-127	table#2		
5	· ·					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	PSR-740	
		50Hz-2.0kHz	8-40	table#3	PSR-640	
7	EQ Low Gain	-12-+12dB	52-76			
8	EQ High Frequency	500Hz-16.0kHz	28-58	table#3		
9	EQ High Gain	-12-+12dB	52-76			
10	Dry/Wet	D63>W - D=W - D <w63< td=""><td>1-127</td><td></td><td></td><td>•</td></w63<>	1-127			•
		l				
11	EQ Mid Frequency	100Hz-10.0kHz (variation block)	14-54	table#3	PSR-740 only	
12	EQ Mid Gain	-12-+12dB (variation block)	52-76		PSR-740 only	
13	EQ Mid Width	1.0-12.0 (variation block)	10-120		PSR-740 only	
14						
15	Input Mode	mono/stereo	0-1			
16						

FLANGER1,2,3 (chorus, variation, insertion block)

_,		,				
No.	Parameter	Display	Value	See Table	Comment	Control
1	LFO Frequency	0.00Hz-39.7Hz	0-127	table#1		
2	LFO Depth	0-127	0-127			
3	Feedback Level	-63-+63	1-127			
4	Delay Offset	0.0mS-50mS	0-127	table#2		
5						
6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	PSR-740	
		50Hz-2.0kHz	8-40	table#3	PSR-640	
7	EQ Low Gain	-12-+12dB	52-76			
8	EQ High Frequency	500Hz-16.0kHz	28-58	table#3		
9	EQ High Gain	-12-+12dB	52-76			
10	Dry/Wet	D63>W - D=W - D <w63< td=""><td>1-127</td><td></td><td></td><td>•</td></w63<>	1-127			•
11	EQ.M. 4 E	40011- 40 0111- 6	14-54	table#3	DOD 740	
11	EQ Mid Frequency EQ Mid Gain	100Hz-10.0kHz (variation block) -12-+12dB (variation block)	52-76	table#3	PSR-740 only PSR-740 only	
13	EQ Mid Width	1.0-12.0 (variation block)	10-120		PSR-740 only	
14	I FO Phase Difference	-180-+180deg(resolution=3deg.)	4-124		F3K-740 Ully	
15	LFO Fliase Dillefelice	-100-+100deg(resolution=3deg.)	4-124			
15						1

SYMPHONIC (chorus, variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control	
1	LFO Frequency	0.00Hz-39.7Hz	0-127	table#1			
2	LFO Depth	0-127	0-127				
3	Delay Offset	0.0mS-50mS	0-127	table#2			
4	-						
5							
6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	PSR-740		
		50Hz-2.0kHz	8-40	table#3	PSR-640		
7	EQ Low Gain	-12-+12dB	52-76				
8	EQ High Frequency	500Hz-16.0kHz	28-58	table#3			
9	EQ High Gain	-12-+12dB	52-76				
10	Dry/Wet	D63>W - D=W - D <w63< td=""><td>1-127</td><td></td><td></td><td>. • </td><td></td></w63<>	1-127			. •	
11	EQ Mid Frequency	100Hz-10.0kHz (variation block)	14-54	table#3	PSR-740 only		
12	EQ Mid Gain	-12-+12dB (variation block)	52-76		PSR-740 only		
13	EQ Mid Width	1.0-12.0 (variation block)	10-120		PSR-740 only		
14			1	l	1		
15			1	l	1		
16	I		i	1	1	1	

ENSEMBLE DETUNE (chorus, variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control	
1 2 3 4 5 6 7 8	Detune Lch Init Delay Rch Init Delay	-50-+50cent 0.0mS-50mS 0.0mS-50mS	14-114 0-127 0-127	table#2 table#2			
9 10	Dry/Wet	D63>W - D=W - D <w63< td=""><td>1-127</td><td></td><td></td><td>•</td><td></td></w63<>	1-127			•	
11	EQ Low Frequency	32Hz-2.0kHz (variation, insertion block)	4-40	table#3			
12	EQ Low Gain	-12-+12dB (variation, insertion block)	52-76				
13	EQ High Frequency	500Hz-16.0kHz (variation, insertion block)	28-58	table#3			
14	EQ High Gain	-12-+12dB (variation, insertion block)	52-76				
15 16		(variation, insertion block)					

	CE (variation block)	Tay :	Lv	I	la .			TION, OVERDRIVE (variat		I Value	I Can Table	I Cammant	1.00
No.	Parameter Delay Time	Display 0.0mS-50mS	Value 0-127	See Table table#2	Comment	Control	No. 1	Parameter Drive	Display 0-127	0-127	See Table	Comment	Co
2	Output Phase	normal/invers	0-1				2	EQ Low Frequency	32Hz-2.0kHz 50Hz-2.0kHz	4-40 8-40	table#3 table#3	PSR-740 PSR-640	
4							3 4	EQ Low Gain LPF Cutoff	-12-+12dB 1.0k-Thru	52-76 34-60	table#3		
6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3			5	Output Level	0-127	0-127	tubio#6		
7 8	EQ Low Gain EQ High Frequency	-12-+12dB 500Hz-16.0kHz	52-76 28-58	table#3			6 7	EQ Mid Frequency	100Hz-10.0kHz	14-54	table#3	PSR-740	
9 10	EQ High Gain Dry/Wet	-12-+12dB D63>W - D=W - D <w63< td=""><td>52-76 1-127</td><td></td><td></td><td></td><td>8</td><td>EQ Mid Gain</td><td>500Hz-10.0kHz -12-+12dB</td><td>28-54 52-76</td><td>table#3</td><td>PSR-640</td><td></td></w63<>	52-76 1-127				8	EQ Mid Gain	500Hz-10.0kHz -12-+12dB	28-54 52-76	table#3	PSR-640	
11	·						9 10	EQ Mid Width Dry/Wet	1.0-12.0 D63>W - D=W - D <w63< td=""><td>10-120 1-127</td><td></td><td></td><td></td></w63<>	10-120 1-127			
12							11	Edge(Clip Curve)	0-127	0-127	mild-sharp		
13 14							12	Luge(Clip Culve)	0-127	0-127	IIIIu-siiaip		
15 16							13 14						
	SPEAKER (variation, in:	sertion block)				·	15 16						
No.	Parameter LFO Frequency	Display 0.00Hz-39.7Hz	Value 0-127	See Table table#1	Comment	Control		DIST (variation block)	_				
2	LFO Depth	0-127	0-127				No.	Parameter Drive	Display 0-127	Value 0-127	See Table	Comment	Co
4							2	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3		
5 6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	PSR-740		3 4	EQ Low Gain LPF Cutoff	-12-+12dB 1.0k-Thru	52-76 34-60	table#3		
7	EQ Low Gain	50Hz-2.0kHz -12-+12dB	8-40 52-76	table#3	PSR-640		5 6	Output Level	0-127	0-127			
8 9	EQ High Frequency EQ High Gain	500Hz-16.0kHz -12-+12dB	28-58 52-76	table#3			7 8	EQ Mid Frequency EQ Mid Gain	100Hz-10.0kHz -12-+12dB	14-54 52-76	table#3		
10	Dry/Wet	D63>W - D=W - D <w63< td=""><td>1-127</td><td></td><td></td><td></td><td>9</td><td>EQ Mid Width</td><td>1.0-12.0</td><td>10-120</td><td></td><td></td><td></td></w63<>	1-127				9	EQ Mid Width	1.0-12.0	10-120			
11	EQ Mid Frequency	100Hz-10.0kHz (variation block)	14-54	table#3	PSR-740 only		10	Dry/Wet	D63>W - D=W - D <w63< td=""><td>1-127</td><td></td><td></td><td></td></w63<>	1-127			
12 13	EQ Mid Gain EQ Mid Width	-12-+12dB (variation block) 1.0-12.0 (variation block)	52-76 10-120		PSR-740 only PSR-740 only		11 12	Edge(Clip Curve) Attack	0-127 1ms-40ms	0-127 0-19	mild-sharp table#8		
14 15		,			,		13 14	Release Threshold	10ms-680ms -48dB—6dB	0-15 79-121	table#9		
16							15	Ratio	1.0-20.0	0-7	table#10		
	OTARY SPEAKER (variat						16	 MULATOR (variation, inse	rtion block)				
No.	Parameter Rotor Speed	Display 0.0Hz-39.7Hz	Value 0-127	See Table table#1	Comment	Control	No.	Parameter	Display	Value	See Table	Comment	Co
2	Drive Low Drive High	0-127 0-127	0-127 0-127				1 2	Drive AMP Type	0-127 Off,Stack,Combo,Tube	0-127 0-3			
4	Low/High	L63>H - L=H - L <h63< td=""><td>1-127</td><td></td><td></td><td></td><td>3 4</td><td>LPF Cutoff Output Level</td><td>1.0k-Thru 0-127</td><td>34-60 0-127</td><td>table#3</td><td></td><td></td></h63<>	1-127				3 4	LPF Cutoff Output Level	1.0k-Thru 0-127	34-60 0-127	table#3		
6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3			5	_ upar cover	1	3-121			
7 8	EQ Low Gain EQ High Frequency	-12-+12dB 500Hz-16.0kHz	52-76 28-58	table#3			6 7						
9 10	EQ High Gain	-12-+12dB	52-76				8 9						
	C	10011- 10 0111-	14.54	toblo#2			10	Dry/Wet	D63>W - D=W - D <w63< td=""><td>1-127</td><td></td><td></td><td></td></w63<>	1-127			
11 12 13	Crossover Frequency Mic L-R Angle	100Hz-10.0kHz 0deg-180deg(resolution=3deg.)	14-54 0-60	table#3			11	Edge(Clip Curve)	0-127	0-127	mild-sharp		
13 14							12						
15 16							14 15						
	.O (variation, insertion b	lock)	1	1			16						
No.	Parameter	Display	Value	See Table	Comment	Control	3BAND No.	EQ(MONO) (variation, inse	ertion block) Display	Value	See Table	Comment	Co
2	LFO Frequency AM Depth	0.00Hz-39.7Hz 0-127	0-127 0-127	table#1		•	1	EQ Low Gain	-12-+12dB	52-76			+
3 4	PM Depth	0-127	0-127				2	EQ Mid Frequency	100Hz-10.0kHz 500Hz-10.0kHz	14-54 28-54	table#3 table#3	PSR-740 PSR-640	
5 6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	PSR-740		3 4	EQ Mid Gain EQ Mid Width	-12-+12dB 1.0-12.0	52-76 10-120			
7		50Hz-2.0kHz -12-+12dB	8-40	table#3	PSR-640		5	EQ High Gain	-12-+12dB 50Hz-2.0kHz	52-76	table#3		
8	EQ Low Gain EQ High Frequency	500Hz-16.0kHz	52-76 28-58	table#3			6 7	EQ Low Frequency EQ High Frequency	500Hz-16.0kHz	8-40 28-58	table#3		
9 10	EQ High Gain	-12-+12dB	52-76				8 9						
11	EQ Mid Frequency	100Hz-10.0kHz (variation block)	14-54	table#3	PSR-740 only		10						
12	EQ Mid Gain FO Mid Width	-12-+12dB (variation block)	52-76		PSR-740 only		11 12						
13 14	LFO Phase Difference	1.0-12.0 (variation block) -180-+180deg(resolution=3deg.)	10-120 4-124		PSR-740 only		13						
15 16	Input Mode	mono/stereo	0-1				14 15	Input Mode	mono/stereo	0-1			
	AN (variation, insertion b		Value	See Table	Comment	Control	2BAND	│ EQ(STEREO) (variation, ir	nsertion block)	_	1		
1	Parameter LFO Frequency	Display 0.00Hz-39.7Hz	0-127	table#1	Comment	•	No.	Parameter	Display 32Hz-2.0kHz	Value	See Table	Comment	Co
3	L/R Depth F/R Depth	0-127 0-127	0-127 0-127				'	EQ Low Frequency	50Hz-2.0kHz	4-40 8-40	table#3 table#3	PSR-740 PSR-640	
4 5	PAN Direction	L<->R,L->R,L<-R,Lturn,Rturn,L/R	0-5				2 3	EQ Low Gain EQ High Frequency	-12-+12dB 500Hz-16.0kHz	52-76 28-58	table#3		
6	EQ Low Frequency	32Hz-2.0kHz	4-40 8-40	table#3	PSR-740 PSR-640		4 5	EQ High Gain	-12-+12dB	52-76			
7	EQ Low Gain	50Hz-2.0kHz -12-+12dB	52-76	table#3	r 3N-040		6						
8	EQ High Frequency EQ High Gain	500Hz-16.0kHz -12-+12dB	28-58 52-76	table#3			7 8						
10			1				9 10						
11 12	EQ Mid Frequency EQ Mid Gain	100Hz-10.0kHz (variation block) -12-+12dB (variation block)	14-54 52-76	table#3	PSR-740 only PSR-740 only		11						
13	EQ Mid Width	1.0-12.0 (variation block)	10-120		PSR-740 only		12						
14 15							13 14						
16 ASED	1 (chorus veri-ti '	ortion block)	1	I	<u> </u>		15 16		1				
ASER No.	1 (chorus, variation, ins Parameter	Display	Value	See Table	Comment	Control		AH (variation, insertion b					
1 2	LFO Frequency LFO Depth	0.00Hz-39.7Hz 0-127	0-127 0-127	table#1			No.	Parameter LFO Frequency	Display 0.00Hz-39.7Hz	Value 0-127	See Table table#1	Comment	Co
3	Phase Shift Offset	0-127	0-127				2	LFO Depth	0-127	0-127	IGIJIE#1		
4 5	Feedback Level	-63-+63	1-127	1.			3 4	Cutoff Frequency Offset Resonance	0-127 1.0-12.0	0-127 10-120			
6	EQ Low Frequency	32Hz-2.0kHz 50Hz-2.0kHz	4-40 8-40	table#3 table#3	PSR-740 PSR-640		5 6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	PSR-740	
7 8	EQ Low Gain EQ High Frequency	-12-+12dB 500Hz-16.0kHz	52-76 28-58	table#3			7	EQ Low Gain	50Hz-2.0kHz -12-+12dB	8-40 52-76	table#3	PSR-640	
9	EQ High Gain	-12-+12dB D63>W - D=W - D <w63< td=""><td>52-76</td><td>Capiero</td><td></td><td></td><td>8</td><td>EQ High Frequency</td><td>500Hz-16.0kHz</td><td>28-58</td><td>table#3</td><td></td><td></td></w63<>	52-76	Capiero			8	EQ High Frequency	500Hz-16.0kHz	28-58	table#3		
10	Dry/Wet		1-127			•	9 10	EQ High Gain Dry/Wet	-12-+12dB D63>W - D=W - D <w63< td=""><td>52-76 1-127</td><td></td><td></td><td></td></w63<>	52-76 1-127			
11	Stage	4,5,6 (chorus, insertion block) 4-12 (variation block)	4-6 4-12		PSR-740		11	Drive	0-127(variation block)	0-127			
12	Diffusion	6-10 (variation block) mono/stereo	6-10 0-1		PSR-640		12 13						
13	Silusion	monoyatel 60	0.1				14 15						
14 15							15 16						L
16 ACED	2 (variation 511)	1	1	1	l .			AH+DIST, AUTO WHA+OD					
ASER No.	2 (variation block) Parameter	Display	Value	See Table	Comment	Control	No. 1	Parameter LFO Frequency	Display 0.00Hz-39.7Hz	Value 0-127	See Table table#1	Comment	Co
1 2	LFO Frequency LFO Depth	0.00Hz-39.7Hz 0-127	0-127 0-127	table#1			2 3	LFO Depth Cutoff Frequency Offset	0-127 0-127	0-127 0-127			
3	Phase Shift Offset	0-127	0-127				4	Cutoff Frequency Offset Resonance	0-127 1.0-12.0	0-127 10-120			
4 5	Feedback Level	-63-+63	1-127				5 6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3		
6	EQ Low Frequency	32Hz-2.0kHz 50Hz-2.0kHz	4-40 8-40	table#3 table#3	PSR-740 PSR-640		7 8	EQ Low Gain	-12-+12dB 500Hz-16.0kHz	52-76 28-58	table#3		
7	EQ Low Gain	-12-+12dB	52-76		r 3N-040		9	EQ High Frequency EQ High Gain	-12-+12dB	52-76	table#3		
	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	1	1 1	10	Dry/Wet	D63>W - D=W - D <w63< td=""><td>1-127</td><td>1</td><td>I</td><td>1</td></w63<>	1-127	1	I	1
8 9	EQ High Gain	-12-+12dB	52-76						1				
9 10	EQ High Gain Dry/Wet	-12-+12dB D63>W - D=W - D <w63< td=""><td>52-76 1-127</td><td></td><td></td><td>•</td><td>11 12</td><td>Drive EQ Low Gain(distortion)</td><td>0-127 -12-+12dB</td><td>0-127 52-76 52-76</td><td></td><td></td><td></td></w63<>	52-76 1-127			•	11 12	Drive EQ Low Gain(distortion)	0-127 -12-+12dB	0-127 52-76 52-76			

Drive EQ Low Gain(distortion) EQ Mid Gain(distortion) LPF Cutoff Output Level

0-127 -12-+12dB -12-+12dB 1.0kHz-thru 0-127

0-127 52-76 52-76 34-60 0-127

table#3

11 12 13 Stage

14 15 16

LFO Phase Difference

3,4,5,6 3,4,5 -180deg-+180deg (resolution=3deg.)

3-6 3-5 4-124

PSR-740 PSR-640

MIDI Data Format

TOUCH WAH 1 (variation.	insertion block). TOUC	H WAH+DIST (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Sensitive	0-127	0-127			
2	Cutoff Frequency Offset	0-127	0-127			•
3	Resonance	1.0-12.0	10-120			
4						
5						
6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3		
7	EQ Low Gain	-12-+12dB	52-76			
8	EQ High Frequency	500Hz-16.0kHz	28-58	table#3		
9	EQ High Gain	-12-+12dB	52-76			
10	Dry/Wet	D63>W - D=W - D <w63< td=""><td>1-127</td><td></td><td></td><td></td></w63<>	1-127			
11	Drive	0-127(variation block)	0-127			
12		(1			
13						
14						
15						
16	1		1			I

TOUCH WAH 2 (variation, insertion block), TOUCH WAH+ODRV (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Sensitive	0-127	0-127			
2	Cutoff Frequency Offset	0-127	0-127			•
3	Resonance	1.0-12.0	10-120			
4	1					
5	1					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3		
7	EQ Low Gain	-12-+12dB	52-76			
8	EQ High Frequency	500Hz-16.0kHz	28-58	table#3		
9	EQ High Gain	-12-+12dB	52-76			
10	Dry/Wet	D63>W - D=W - D <w63< td=""><td>1-127</td><td></td><td></td><td></td></w63<>	1-127			
11	Drive	0-127(variation block)	0-127			
12	EQ Low Gain(distortion)	-12-+12dB(variation block)	52-76			
13	EQ Mid Gain(distortion)	-12-+12dB(variation block)	52-76			
14	LPF Cutoff	1.0kHz-thru(variation block)	34-60	table#3		
15	Output Level	0-127(variation block)	0-127			
16	Release	10-680ms	52-67			

PITCH CHANGE 1 (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Pitch	-24-+24	40-88			
2	Initial Delay	0.1mS-400.0mS	0-127	table#7		
3	Fine 1	-50-+50	14-114			
4	Fine 2	-50-+50	14-114			
5	Feedback Level	-63-+63	1-127			
6						
7						
8						
9						
10	Dry/Wet	D63>W - D=W - D <w63< td=""><td>1-127</td><td></td><td></td><td>•</td></w63<>	1-127			•
11	Pan 1	L63-R63	1-127			
12	Output Level 1	0-127	0-127			
13	Pan 2	L63-R63	1-127			
14	Output Level 2	0-127	0-127			
15						
16						

PITCH CHANGE 2 (variation block)

- [No.	Parameter	Display	Value	See Table	Comment	Control
ı	1	Pitch	-24-+24	40-88			
	2	Initial Delay	0.1mS-400.0mS	0-127	table#7		
	3	Fine 1	-50-+50cent	14-114			
	4	Fine 2	-50-+50cent	14-114			
	5	Feedback Level	-63-+63	1-127			
	6						
	7						
	8						
	9						
	10	Dry/Wet	D63>W - D=W - D <w63< td=""><td>1-127</td><td></td><td></td><td>•</td></w63<>	1-127			•
	11	Pan 1	L63-R63	1-127			
	12	Output Level 1	0-127	0-127			
	13	Pan 2	L63-R63	1-127			
	14	Output Level 2	0-127	0-127			
	15	Output Level 2	0-127	0-127			
	16			l			

COMPRESSOR (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Attack	1-40ms	0-19	table#8		
2	Release	10-680ms	0-15	table#9		
3	Threshold	-48—6dB	79-121			
4	Ratio	1.0-20.0	0-7	table#10		
5 6	Output Level	0-127	0-127			
7						
8						
9						
10						
11						
13						
13						
15			I			
16						
L 16	1					

NOISE GATE (variation, insertion block)

	No.	Parameter	Display	Value	See Table	Comment	Control
Π	1	Attack	1-40ms	0-19	table#8		
- 1	2	Release	10-680ms	0-15	table#9		
- 1	3	Threshold	-72—30dB	55-97			
- 1	4	Output Level	0-127	0-127			
- 1	5						
- 1	6						
- 1	7						
- 1	8						
- 1	9						
- 1	10						
- 1							
- 1	11						
- 1	12						
- 1	13						
- 1	14			l	l		
- 1	15			l	l		
- 1	16			l	l		

VOICE CANCEL (variation block)

	ANCEL (Variation block)					
No.	Parameter	Display	Value	See Table	Comment	Control
1						
2	1					
3	1					
4	1					
5	1					
6	1					
7	1					
8	1					
9	1					
10	1					
l	l					
11	Low Adjust	0-26	0-26			
12	High Adjust	0-26	0-26			
13	1					
14 15	1	1	I	l		l
16	1	1	I	l		l
16	1	1	1	ı	I	1

NO EFFECT (reverb, chorus, variation block), THRU (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1						
2						
3						
4						
5						
6						
7						
8						
9 10						
10						
11						
12						
13						
14						
15						
16				1		1

HARMONIC ENHANCER (variation block)

Parameter	Display	Value	See Table	Comment	Control
HPF Cutoff	500Hz-16kHz	28-58	table#3		
Drive	0-127	0-127			
Mix Level	0-127	0-127			
					1
	Parameter HPF Cutoff	HPF Cutoff 500Hz-16kHz Drive 0-127	Parameter Display Value HPF Cutoff 500Hz-16kHz 28-58 Drive 0-127 0-127	Parameter Display Value See Table HPF Cutoff 500Hz-16kHz 28-58 table#3 Drive 0-127 0-127	Parameter Display Value See Table Comment HPF Cutoff 500Hz-16kHz 28-58 table#3 Drive 0-127 0-127

TALKING MODULATION (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Vowel	a,i,u,e,o	0-4			
2	Move speed	1-62	1-62			
3	Drive	0-127	0-127			
4 5	Output Level	0-127	0-127			
5	'					
6						
7						
8						
9						
10						
11						
12						
13						
14						
15			1	l	1	
16			1	l	1	

LO-FI (variation block)

No.	Parameter	Display	Value	See lable	Comment	Control
1	Sampling Freq Control	a,i,u,e,o	0-4			
2	Word Length	1-62	1-62			
3	Output Gain	0-127	0-127			
4	LPF Cutoff	0-127	0-127			
5	Filter Type	Thru,PowerBass,Radio,Tel,Clean,Low	0-5			
6	LPF Resonance	1.0-12.0	10-120			
7	Bit Assign	0-6	0-6			
8	Emphasis	Off/On	0-1			
9						
10	Dry/Wet	D63>W - D=W - D <w63< td=""><td>1-127</td><td></td><td></td><td> • </td></w63<>	1-127			•
	-					
11						
12						
13						
14						
15	Input Mode	mono/stereo				
16	· ·					

DIST+DELAT (variation block), OVERDRIVE+DELAT (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Lch Delay Time	0.1-1486.0ms	1-14860			
2	Rch Delay Time	0.1-1486.0ms	1-14860			
3	Delay Feedback Time	0.1-1486.0ms	1-14860			
4	Delay Feedback Level	-63-+63	1-127			
5	Delay Mix	0-127	0-127			
6	Dist Drive	0-127	0-127			
7	Dist Output Level	0-127	0-127			
8	Dist EQ Low Gain	-12-+12dB	52-76			
9	Dist EQ Mid Gain	-12-+12dB	52-76			
10	Dry/Wet	D63>W - D=W - D <w63< td=""><td>1-127</td><td></td><td></td><td>•</td></w63<>	1-127			•
11						
12						
13						
14						
15						
16	1	1	1	ľ	I	1

COMP+DIST+DELAT (variation block), COMP+OVERDRIVE+DELAT (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Delay Time	0.1-1486.0ms	1-14860			
2	Delay Feedback Level	-63-+63	1-127			
3	Delay Mix	0-127	0-127			
4	Dist Drive	0-127	0-127			
5	Dist Output Level	0-127	0-127			
6	Dist EQ Low Gain	-12-+12dB	52-76			
7	Dist EQ Mid Gain	-12-+12dB	52-76			
8						
9						
10	Dry/Wet	D63>W - D=W - D <w63< td=""><td>1-127</td><td></td><td></td><td>•</td></w63<>	1-127			•
11	Comp. Attack	1ms-40ms	0-19	table#8		
12	Comp. Release	10ms-680ms	0-15	table#9		
13	Comp. Threshold	-48dB—6dB	79-121			
14	Comp. Ratio	1.0-20.0	0-7	table#10		
15				1	1	1
16	1	1		1		1

WAH+DIST+DELAT (variation block), WAH+OVERDRIVE+DELAT (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Delay Time	0.1-1486.0ms	1-14860			
2	Delay Feedback Level	-63-+63	1-127			
3	Delay Mix	0-127	0-127			1 1
4	Dist Drive	0-127	0-127			
5	Dist Output Level	0-127	0-127			
6	Dist EQ Low Gain	-12-+12dB	52-76			
7	Dist EQ Mid Gain	-12-+12dB	52-76			1 1
8						
9						
10	Dry/Wet	D63>W - D=W - D <w63< td=""><td>1-127</td><td></td><td></td><td> • </td></w63<>	1-127			•
						1 1
11	Wah Sensitive	0-127	0-127			
12	Wah Cutoff Freq Offset	0-127	0-127			
13	Wah Resonance	1.0-12.0	10-120			
14	Wah Release	10-680ms	52-67	l	1	1 1
15				l		1 1
16						1 1

^{*&}quot;Dry/Wet" is avilable when variation connection = Insertion.

< Table 1-13 > Effect Data Value Assign Table

able#	1 requenc	:v						Table#	
Data		Data	Value	Data	Value	Data	Value	Data	-
0	0.00	32	1.35	64	2.69	96	8.41	0	r
1	0.04	33	1.39	65	2.78	97	8.75	1	t
2	0.08	34	1.43	66	2.86	98	9.08	2	T
3	0.13	35	1.47	67	2.94	99	9.42	3	T
4	0.17	36	1.51	68	3.03	100	9.76	4	T
5	0.21	37	1.56	69	3.11	101	10.1	5	T
6	0.25	38	1.60	70	3.20	102	10.8	6	T
7	0.29	39	1.64	71	3.28	103	11.4	7	Г
8	0.34	40	1.68	72	3.37	104	12.1	8	T
9	0.38	41	1.72	73	3.45	105	12.8	9	T
10	0.42	42	1.77	74	3.53	106	13.5	10	Г
11	0.46	43	1.81	75	3.62	107	14.1	11	Г
12	0.51	44	1.85	76	3.70	108	14.8	12	Γ
13	0.55	45	1.89	77	3.87	109	15.5	13	Г
14	0.59	46	1.94	78	4.04	110	16.2	14	
15	0.63	47	1.98	79	4.21	111	16.8	15	Γ
16	0.67	48	2.02	80	4.37	112	17.5	16	Γ
17	0.72	49	2.06	81	4.54	113	18.2	17	Γ
18	0.76	50	2.10	82	4.71	114	19.5	18	Г
19	0.80	51	2.15	83	4.88	115	20.9	19	Г
20	0.84	52	2.19	84	5.05	116	22.2	20	Γ
21	0.88	53	2.23	85	5.22	117	23.6	21	Γ
22	0.93	54	2.27	86	5.38	118	24.9	22	
23	0.97	55	2.31	87	5.55	119	26.2	23	Γ
24	1.01	56	2.36	88	5.72	120	27.6	24	
25	1.05	57	2.40	89	6.06	121	28.9	25	Γ
26	1.09	58	2.44	90	6.39	122	30.3	26	Ĺ
27	1.14	59	2.48	91	6.73	123	31.6	27	Ĺ
28	1.18	60	2.52	92	7.07	124	33.0	28	Γ
29	1.22	61	2.57	93	7.40	125	34.3	29	
30	1.26	62	2.61	94	7.74	126	37.0	30	ſ
31	1.30	63	2.65	95	8.08	127	39.7	31	Γ

	time				_
Data	Value	Data	Value	Data	Value
0	0.3	32	3.5	64	17.0
1	0.4	33	3.6	65	18.0
2	0.5	34	3.7	66	19.0
3	0.6	35	3.8	67	20.0
4	0.7	36	3.9	68	25.0
5	0.8	37	4.0	69	30.0
6	0.9	38	4.1		
7	1.0	39	4.2		
8	1.1	40	4.3	l	
9	1.2	41	4.4	1	
10	1.3	42	4.5	1	
11	1.4	43	4.6	1	
12	1.5	44	4.7	1	
13	1.6	45	4.8	1	
14	1.7	46	4.9	1	
15	1.8	47	5.0	1	
16	1.9	48	5.5	1	
17	2.0	49	6.0	1	
18	2.1	50	6.5	1	
19	2.2	51	7.0	1	
20	2.3	52	7.5	1	
21	2.4	53	8.0		
22	2.5	54	8.5	1	
23	2.6	55	9.0	İ	
24	2.7	56	9.5	i	
25	2.8	57	10.0	İ	
26	2.9	58	11.0		
27	3.0	59	12.0	1	
28	3.1	60	13.0	1	
29	3.2	61	14.0	İ	
30	3.3	62	15.0	1	
31	3.4	63	16.0	1	

Data	Value	Data	Value	Data	Value	Data	Value
0	0.1	32	100.9	64	201.6	96	302.4
1	3.2	33	104.0	65	204.8	97	305.5
2	6.4	34	107.2	66	207.9	98	308.7
3	9.5	35	110.3	67	211.1	99	311.8
4	12.7	36	113.5	68	214.2	100	315.0
5	15.8	37	116.6	69	217.4	101	318.1
6	19.0	38	119.8	70	220.5	102	321.3
7	22.1	39	122.9	71	223.7	103	324.4
8	25.3	40	126.1	72	226.8	104	327.6
9	28.4	41	129.2	73	230.0	105	330.7
10	31.6	42	132.4	74	233.1	106	333.9
11	34.7	43	135.5	75	236.3	107	337.0
12	37.9	44	138.6	76	239.4	108	340.2
13	41.0	45	141.8	77	242.6	109	343.3
14	44.2	46	144.9	78	245.7	110	346.5
15	47.3	47	148.1	79	248.9	111	349.6
16	50.5	48	151.2	80	252.0	112	352.8
17	53.6	49	154.4	81	255.2	113	355.9
18	56.8	50	157.5	82	258.3	114	359.1
19	59.9	51	160.7	83	261.5	115	362.2
20	63.1	52	163.8	84	264.6	116	365.4
21	66.2	53	167.0	85	267.7	117	368.5
22	69.4	54	170.1	86	270.9	118	371.7
23	72.5	55	173.3	87	274.0	119	374.8
24	75.7	56	176.4	88	277.2	120	378.0
25	78.8	57	179.6	89	280.3	121	381.1
26	82.0	58	182.7	90	283.5	122	384.3
27	85.1	59	185.9	91	286.6	123	387.4
28	88.3	60	189.0	92	289.8	124	390.6
29	91.4	61	192.2	93	292.9	125	393.7
30	94.6	62	195.3	94	296.1	126	396.9
31	97.7	63	198.5	95	299.2	127	400.0

Data	Value	Data	Value	Data	Value	Data
0	0.5	32	8.8	64	17.6	96
1	0.8	33	9.1	65	17.9	97
2	1.0	34	9.4	66	18.2	98
3	1.3	35	9.6	67	18.5	99
4	1.5	36	9.9	68	18.8	100
5	1.8	37	10.2	69	19.1	101
6	2.0	38	10.4	70	19.4	102
7	2.3	39	10.7	71	19.7	103
8	2.6	40	11.0	72	20.0	104
9	2.8	41	11.2	73	20.2	
10	3.1	42	11.5	74	20.5	
11	3.3	43	11.8	75	20.8	
12	3.6	44	12.1	76	21.1	
13	3.9	45	12.3	77	21.4	
14	4.1	46	12.6	78	21.7	
15	4.4	47	12.9	79	22.0	
16	4.6	48	13.1	80	22.4	
17	4.9	49	13.4	81	22.7	
18	5.2	50	13.7	82	23.0	
19	5.4	51	14.0	83	23.3	
20	5.7	52	14.2	84	23.6	
21	5.9	53	14.5	85	23.9	
22	6.2	54	14.8	86	24.2	
23	6.5	55	15.1	87	24.5	
24	6.7	56	15.4	88	24.9	
25	7.0	57	15.6	89	25.2	
26	7.2	58	15.9	90	25.5	
27	7.5	59	16.2	91	25.8	
28	7.8	60	16.5	92	26.1	
29	8.0	61	16.8	93	26.5	
30	8.3	62	17.1	94	26.8	
31	8.6	63	17.3	95	27.1	1

Data	Value	Data	Value	Data	Value	Data	Value
0	0.0	32	3.2	64	6.4	96	9.6
1	0.1	33	3.3	65	6.5	97	9.7
2	0.2	34	3.4	66	6.6	98	9.8
3	0.3	35	3.5	67	6.7	99	9.9
4	0.4	36	3.6	68	6.8	100	10.0
5	0.5	37	3.7	69	6.9	101	11.1
6	0.6	38	3.8	70	7.0	102	12.2
7	0.7	39	3.9	71	7.1	103	13.3
8	0.8	40	4.0	72	7.2	104	14.4
9	0.9	41	4.1	73	7.3	105	15.5
10	1.0	42	4.2	74	7.4	106	17.1
11	1.1	43	4.3	75	7.5	107	18.6
12	1.2	44	4.4	76	7.6	108	20.2
13	1.3	45	4.5	77	7.7	109	21.8
14	1.4	46	4.6	78	7.8	110	23.3
15	1.5	47	4.7	79	7.9	111	24.9
16	1.6	48	4.8	80	8.0	112	26.5
17	1.7	49	4.9	81	8.1	113	28.0
18	1.8	50	5.0	82	8.2	114	29.6
19	1.9	51	5.1	83	8.3	115	31.2
20	2.0	52	5.2	84	8.4	116	32.8
21	2.1	53	5.3	85	8.5	117	34.3
22	2.2	54	5.4	86	8.6	118	35.9
23	2.3	55	5.5	87	8.7	119	37.5
24	2.4	56	5.6	88	8.8	120	39.0
25	2.5	57	5.7	89	8.9	121	40.6
26	2.6	58	5.8	90	9.0	122	42.2
27	2.7	59	5.9	91	9.1	123	43.7
28	2.8	60	6.0	92	9.2	124	45.3
29	2.9	61	6.1	93	9.3	125	46.9
30	3.0	62	6.2	94	9.4	126	48.4
31	3.1	63	6.3	95	9.5	127	50.0

Data	Value	Data	Value	Data	Value	Data	Value
0	0.1	32	50.5	64	100.8	96	151.2
1	1.7	33	52.0	65	102.4	97	152.8
2	3.2	34	53.6	66	104.0	98	154.4
3	4.8	35	55.2	67	105.6	99	155.9
4	6.4	36	56.8	68	107.1	100	157.5
5	8.0	37	58.3	69	108.7	101	159.1
6	9.5	38	59.9	70	110.3	102	160.6
7	11.1	39	61.5	71	111.9	103	162.2
8	12.7	40	63.1	72	113.4	104	163.8
9	14.3	41	64.6	73	115.0	105	165.4
10	15.8	42	66.2	74	116.6	106	166.9
11	17.4	43	67.8	75	118.2	107	168.5
12	19.0	44	69.4	76	119.7	108	170.1
13	20.6	45	70.9	77	121.3	109	171.7
14	22.1	46	72.5	78	122.9	110	173.2
15	23.7	47	74.1	79	124.4	111	174.8
16	25.3	48	75.7	80	126.0	112	176.4
17	26.9	49	77.2	81	127.6	113	178.0
18	28.4	50	78.8	82	129.2	114	179.5
19	30.0	51	80.4	83	130.7	115	181.1
20	31.6	52	81.9	84	132.3	116	182.7
21	33.2	53	83.5	85	133.9	117	184.3
22	34.7	54	85.1	86	135.5	118	185.8
23	36.3	55	86.7	87	137.0	119	187.4
24	37.9	56	88.2	88	138.6	120	189.0
25	39.5	57	89.8	89	140.2	121	190.6
26	41.0	58	91.4	90	141.8	122	192.1
27	42.6	59	93.0	91	143.3	123	193.7
28	44.2	60	94.5	92	144.9	124	195.3
29	45.7	61	96.1	93	146.5	125	196.9
30	47.3	62	97.7	94	148.1	126	198.4
31	48.9	63	99.3	95	149.6	127	200.0

		_	
	Table#		
_			Attack Time
4		Value	
2	0	1	
	1	2	
1	2	3	
7	3	4	
5	4	5	
П	5	6	
3	6	7	
3	7	8	
3	8	9	
1	9	10	
9	10	12	
5	11	14	
7	12	16	
	13	18	
2	14	20	
3	15	23	
	16	26	
5	17	30	
5	18	35	
П	19	40	
7			•
3	Table#	9	
3			Release Time
4			1

29	2.9	61	6.1	93	9.3		
30	3.0	62	6.2	94	9.4		
31	3.1 63		6.3	95	9.5		
Table#3 EQ Frequency							
Data		lue	Data	Va			
0	THRU		32		00		
1		22	33	_	00		
2		25	34		0k		
3		28	35		1k		
4		32	36		2k		
5	_	36	37		4k		
6		40	38	1.	6k		
7		45	39	1.8k			
8		50	40	2.0k			
9	56		41	2.2k			
10		63	42	2.5k			
11	70		43	2.	8k		
12	80		44	3.2k			
13		90	45	3.6k			
14		00	46	4.0k			
15		10	47	4.	5k		
16	1:	25	48	5.	0k		
17	1-	40	49		6k		
18	10	60	50	6.	3k		
19	180		51	7.	0k		
20		00	52	_	0k		
21		25	53	_	0k		
22		50	54	10.			
23	2	80	55	11.	0k		
24		15	56	12.			
25	3	55	57	14.	0k		
26	4	າດ	58	16	0k		

Data	Value	Data	Value	Data	Value	Data	Value
0	0.1	32	5.1	64	10.1	96	15.1
1	0.3	33	5.3	65	10.3	97	15.3
2	0.4	34	5.4	66	10.4	98	15.5
3	0.6	35	5.6	67	10.6	99	15.6
4	0.7	36	5.7	68	10.8	100	15.8
5	0.9	37	5.9	69	10.9	101	15.9
6	1.0	38	6.1	70	11.1	102	16.1
7	1.2	39	6.2	71	11.2	103	16.2
8	1.4	40	6.4	72	11.4	104	16.4
9	1.5	41	6.5	73	11.5	105	16.6
10	1.7	42	6.7	74	11.7	106	16.7
11	1.8	43	6.8	75	11.9	107	16.9
12	2.0	44	7.0	76	12.0	108	17.0
13	2.1	45	7.2	77	12.2	109	17.2
14	2.3	46	7.3	78	12.3	110	17.3
15	2.5	47	7.5	79	12.5	111	17.5
16	2.6	48	7.6	80	12.6	112	17.6
17	2.8	49	7.8	81	12.8	113	17.8
18	2.9	50	7.9	82	12.9	114	18.0
19	3.1	51	8.1	83	13.1	115	18.1
20	3.2	52	8.2	84	13.3	116	18.3
21	3.4	53	8.4	85	13.4	117	18.4
22	3.5	54	8.6	86	13.6	118	18.6
23	3.7	55	8.7	87	13.7	119	18.7
24	3.9	56	8.9	88	13.9	120	18.9
25	4.0	57	9.0	89	14.0	121	19.1
26	4.2	58	9.2	90	14.2	122	19.2
27	4.3	59	9.3	91	14.4	123	19.4
28	4.5	60	9.5	92	14.5	124	19.5
29	4.6	61	9.7	93	14.7	125	19.7
30	4.8	62	9.8	94	14.8	126	19.8
31	5.0	63	10.0	95	15.0	127	20.0

l	19	40					
	Table#	0					
1		-	Release Tim				
ł		Value	 				
ł	0	10					
ł	1	15					
ł	2	25					
ł	3	35					
ł	_						
ł	4	45					
1	5	55					
ļ	6	65					
l	7	75					
	8	85					
	9	100					
	10	115					
]	11	140					
	12	170					
l	13	230					
I	14	340					
	15	680					
	Table#10						
l	Compi	ressor l	Ratio				
	Data	Value					

Table#10							
	Compi	ressor l	Ratio				
	Data	Value					
	0	1.0					
	1	1.5					
	2	2.0	l				
	3	3.0					
	4	5.0					
	5	7.0					
	6	10.0					
	7	20.0	l				

MIDI Implementation Chart

[Portable Keyboard] Date :3-MAR-1999
Model : PSR-740 MIDI Implementation Chart Version : 1.0

Function	Transmitted	Recognized	Remarks
Basic Default Channel Changed	1 - 16	1 - 16	
Default Mode Messages Altered	3 x ********	3 x x	
Note Number :True voice	0 - 127	0 - 127 0 - 127	
Velocity Note ON Note OFF	o 9nH,v=1-127 x 9nH,v=0	o 9nH,v=1-127 x	
After Key's Touch Ch's	x x	x o	
Pitch Bend	0	0	
0,3 1,7,10,1 6,3 Control 64,66-6 Change 71-72,7 7 8 91,93-9 96-9 98-9 100-10 Prog Change :True #	0	0 0 0 0 0 0 0 0 0 0 0 0 0	Bank Select Portamento Time Data Entry Portamento Sound Controller Sound Controller Portament Cntrl Effect SendLevel Data Inc,Dec NRPN LSB,MSB RPN LSB,MSB
System Exclusive	0	0	
: Song Pos. Common : Song Sel. : Tune	x x x	x x x	
System : Clock Real Time : Commands	0 0	0 0	
: All Sound Of Aux : Reset All Cnt : Local ON/OF Mes- : All Notes OF sages : Active Sense : Reset	S X F X F X	0 0 x o(123-127) 0 x	

 Mode 1 : OMNI ON , POLY
 Mode 2 : OMNI ON , MONO
 o : Yes

 Mode 3 : OMNI OFF, POLY
 Mode 4 : OMNI OFF, MONO"
 x : No

[Portable Keyboard] Model : PSR-640

MIDI Implementation Chart

Date :3-MAR-1999 Version : 1.0

Function	Transmitted		Recognized		Remarks
Basic Default Channel Changed	1 - 16 1 - 16	*1 *1	1 - 16 1 - 16	*2 *2	
Default Mode Messages Altered	3 x ********		3 x x		
Note Number :True voice	0 - 127		0 - 127 0 - 127		
Velocity Note ON Note OFF	o 9nH,v=1-127 x 9nH,v=0		o 9nH,v=1-127 x		
After Key's Touch Ch's	x x		x o		
Pitch Bend	0		0		
0,33 1,4 7,10,1 6,33 Control 64,66-6 Change 73 71,73-74 8-9 91,93-94 96-9 98-99 100-10	5		0 0 0 0 0 0 0 0 0 0 0 0 0 0		Bank Select Data Entry Portamento Sound Controller Sound Controller Portament Cntrl Effect SendLevel Data Inc,Dec NRPN LSB,MSB RPN LSB,MSB
System Exclusive	0		0		
: Song Pos. Common : Song Sel. : Tune	x x x		x x x		
System : Clock Real Time : Commands	0 0		0		
: All Sound Of Aux : Reset All Cnt : Local ON/OF Mes- sages : All Notes OF sages : Active Sense : Reset	·ls x ·F x ·F x		0 0 X 0(123-127) 0 X		

Mode 1 : OMNI ON , POLY Mode 3 : OMNI OFF, POLY

Mode 2 : OMNI ON ,MONO Mode 4 : OMNI OFF,MONO o : Yes x : No

MIDI Implementation Chart

- *1 The tracks for each channel can be selected on the panel. See page 130 for more information.
- *2 Incoming MIDI messages control the PSR-740/640 as 16 channel multi timbral tone generator when initially shipped (factory set). The MIDI messages don't affect the panel controls including the Panel Voice selection since they are directly sent to the tone generator of the PSR-740/640.

However, the following MIDI messages affects the panel controls such as Panel Voice, Style, Multi Pad and Song settings:

- MIDI MASTER TUNE, MASTER TUNE (XG System Parameter).
- TRANSPOSE (XG System Parameter).
- System Exclusive Messages related to the REVERB, CHO-RUS, DSP EFFECT and MULTI EFFECT (PSR-740 only) settings.
- XG MULTI EQ PARAMETER (PSR-740 only)

Also, the MIDI messages affect the panel settings when one of the following MIDI reception modes is selected.

These modes can be selected on the panel (see page 131).

Keyboard: The Note On/Off messages received at the designated Keyboard (receive) channel are processed the same as the notes normally played on the keyboard. In this mode, only the following channel messages will be recognized:

Note On/Off

Control Changes

Bank Select (R1 voice only)

Modulation

Volume(R1 voice only)

Data entry

Pan (R1 voice only)

Expression Sustain Sostenuto Soft Pedal Harmonic Content

Release time Brightness

Reverb send level (R1 voice only) Chorus send level (R1 voice only) Variation send level (R1 voice only)

NRPN (Vibrato rate, Vibrato depth) (R1 voice only)

(PSR-740 only)

RPN (Pich bend sensitivity)

All Notes Off

• Program Change (R1 voice only)

Pitch Bend

Root: The note on/off messages received at the channel(s)

set to "Root" are recognized as the bass notes in the

accompaniment section.

The bass notes will be detected regardless of the

accompaniment on/off the PSR-740/640.

However, the following MIDI messages affects and split point settings on the PSR-740/640 panel.

Chord: The note on/off messages received at the channel(s)

set to "Chord" are recognized as the fingerings in the

accompaniment section.
The chards to be detected Parameter

The chords to be detected Parameter. depend on the

fingering mode on the PSR-740/640.

The chords will be detected regardless of the accompaniment on/off and split point settings on the

PSR-740/640 panel.

V. Harmony: See "Vocal Harmony MIDI Specifications" (see

below). (PSR-740 only)

Off: The MIDI channel messages will not be received at

the designated channel.

Vocal Harmony MIDI Specifications (PSR-740 ONLY)

Channel me	ff		Harmony ch	Melody ch	
9n kk	vv	note on message	0	O	Specifies pitch in the Vocoder mode. Velocity not recognized. Also used as Gender Threshold source for the Melody channel.
8n kk 9n kk		note off message	0	0	Turns the current note off in the Vocoder mode. Also used as Gender Threshold source for the Melody channel.
2) Control cha	ange				
Bn 40		damper pedal	0	0	
64		RPN	0	0	
65		RPN	0	0	
62		NRPN NRPN	0	0	
63 06		Data entry MSB	0	0	
64		Data Increment	ő	ŏ	
26		Data Decrement	ŏ	ŏ	
7B		All note off	0	0	
3) RPN					
3) KPN MSB	LSB				
00	00	Pitch bend sensitivity	0	0	
7F	7F	NULL	Ö	Ö	
4) NRPN					
MSB	LSB				
00	00	Harmony mute	0	X	
01	08	Vibrato rate modulation	0	0	
01	09	Vibrato depth modulation	ŏ	ŏ	
01	0A	Vibrato delay modulation	Ö	0	
01	1A	Detune modulation	0	X	Controls the overall amount of detune.
02	10	Harmony 1 volume	0	X	
02	11	Harmony 2 volume	O	X	
02	20	Harmony 1 pan	0	Х	
02	21	Harmony 2 pan	ŏ	X	
		• •			
02	30	Harmony 1 detune	0	X	
02	31	Harmony 2 detune	0	Χ	
5) Pitch bend					
E0 nn	nn		0	0	Only effective when melody channel Lead Gender ON.

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Specifications

Keyboards

 61 standard-size keys (C1 — C6) with touch response.

Display

Large multi-function LCD display

- STANDBY/ON
- Master Volume : MIN -MAX
- Input Volume : MIC/LINE (PSR-740)

• PSR-740 : 10 Songs PSR-640: 8 Songs

Language

· English, German, French, Spanish, Italian, Japanese

Realtime Controls

- Pitch Bend wheel
- (PSR-740) · Modulation wheel

Control & Number Buttons

- VOICE R1

- STYLE
- TEMPO/TAP
- ACMP/SONG VOLUMEVOICE CHANGE

- ORGAN FLUTE (PSR-740) **GROOVE** (PSR-740) MULTI EFFECT (PSR-740) VOCAL HARMONY (PSR-740)
- DIRECT ACCESS
- NEXT/BACK
- EXIT

Voice

PSR-740

- 267 Panel Voices +13 Drum Kits + 480 XG Voices + 1 Organ Voice
- PSR-640

- XG Voices

- Part on/off (R1/R2/L)
- · Voice Change : Voice number
- Parameter Edit : Octave, Pan, Reverb Depth, Chorus Depth, DSP Depth

Organ Flutes

(PSR-740)

- Attack Mode
- Attack Footage
- Response
- Footage

- 160 Styles

- MAIN/AUTO FILL, SIMPLE ENDING/rit. (PSR-740), ENDING/rit.
- Beat Indicator
- Accompaniment Volume
- Voice Change: Voice number

- Parameter Edit : Pan, Reverb depth, Chorus depth, DSP depth (PSR-640)
 One Touch Setting
 Fingering Mode : Multi Finger/Single Finger/Fingered 1/Fingered 2/Full Keyboard

Groove

(PSR-740)

- Groove type: 11 types • Dynamics type: 18 types
- - 36 Multi Pad Banks
 - 4 Pads + STOP
 - · Chord Match
 - Naming

Digital Effects

PSR-740

- · Reverb: 24 types
- Chorus : 20 types
- DSP (system/insertion): 102 types
 DSP1 3 (Multi Effect): 74 types
- DSP4 (microphone sound): 74 types
- Harmony/Echo : 22 types
- Master ÉQ : 5types

PSR-640

- · Reverb: 24 types
- Chorus : 16 types
- DSP (system/insertion): 74 types
- Harmony/Echo : 22 types

Registration Memory

- 32 Registration Banks: 1 4
- Naming
- Accompaniment Freeze

Disk Operations

- Song playback/recordingLoad
- Save · Utility: Format, Song Copy, Delete File

- Song Volume
- Song Track Settings : ON/OFF
- Repeat Play
- Song Transpose

Song Recording

- · Quick Record, Multi Record
- Recording Tracks: 1 Punch In/Punch Out
- Quantize
- Naming Clear
- Setup Data : Volume, Octave, Pan, Reverb depth, Chorus depth, DSP depth

Multi Pad Recording

- User Pad Bank: 4 (37 40)
- Naming
- Clear
- Chord Match

Style Recording

- User Styles: 3 (161 163)
- Recording Tracks
 - PSR-740 : 12 Sections x 8 tracks PSR-640 : 10 Sections x 8 tracks
- Drum Cancel
- Quantize
- Naming
- Clear • Ctab

MIDI

- · Transmit settings
- Receive settings
- Local Control Clock
- · Initial Data Send
- MIDI template

Other functions

- Metronome
- Part Octave

- Scale Tuning
- Split Point
- Touch Sensitivity
- Voice Set
- · Footswitch function
- · Foot Volume function Pitch Bend Range
- Modulation Wheel function (PSR-740)

Auxiliary Jacks

- DC IN 10-12V
- PHONES
- FOOT SWITCH
- FOOT VOLUME
- AUX OUT (R, L+R/L)
- MIDI IN/OUT, TO HOST
- (PSR-740) MIC/LINE IN

Amplifiers

• 6W + 6W

Speakers

• 12 cm (4-3/4") x 2 + 5cm x 2

Power Consumption

• 24W

Power Supply

• Adaptor : Yamaha PA-6 power adaptor Rated Voltage Rated Current DC 10-12V 2A

Dimensions (W x D x H)

• 973 x 399 x 161 (mm) (38-5/16" x 15-11/16" x 6-5/16")

Weight

- PSR-740: 10.2kg • PSR-640: 10kg
- **Supplied Accessories**
 - Sample Disk Music Stand
- Owner's Manual

· Keyboard Stand

with your Yamaha dealer.

- **Optional Accessories** Headphones : HPE-150
- AC Power Adaptor : PA-6 · Foot Switch : FC4, FC5
- Specifications and descriptions in this owner's manual are for information purposes only. Yamaha Corp. reserves the right to change or modify products or specifications at any time without prior notice. Since specifications, equipment or options may not be the same in every locale, please check

: L-6, L-7

- VOICE L
- VOICE R2FUNCTION
- SONG
- TRANSPOSE
- MIXER

- Data dial, [1] [0], [+/YES], [-/NO]
- Polyphony: 64
- 223 Panel Voices +12 Drum Kits + 480
- Polyphony: 32

- Voice SetR1/R2/L Voices
- Mixer : Volume
- Organ type : 8 types Vibrato Speed
- Length
- **Auto Accompaniment**

 - No Styles
 Accompaniment Track: RHYTHM1/2, BASS, CHORD 1/2, PAD, PHRASE1/2
 Accompaniment Track Settings: ON/OFF
 Accompaniment Control: ACMP ON/OFF, SYNC START, SYNC STOP, START/ STOP, COUNT INTRO (PSR-740), INTRO,

 - Mixer : Volume
 - Master Tuning

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 with FCC

regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

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

The above statements apply ONLY to those products distributed by Yamaha Corporation of America or its subsidiaries.

(class B)

OBSERVERA!

Apparaten kopplas inte ur växelströmskällan (nätet) så länge som den ar ansluten till vägguttaget, även om själva apparaten har stängts av.

ADVARSEL: Netspæendingen til dette apparat er IKKE afbrudt, sálæenge netledningen siddr i en stikkontakt, som er t endt — også selvom der or slukket på apparatets afbryder.

VAROITUS: Laitteen toisiopiiriin kytketty käyttökytkin ei irroita koko laitetta verkosta.

(standby)

^{*} This applies only to products distributed by YAMAHA CORPORATION OF AMERICA

Limited Warranty

90 DAYS LABOR 1 YEAR PARTS

Yamaha Corporation of America, hereafter referred to as Yamaha, warrants to the original consumer of a product included in the categories listed below, that the product will be free of defects in materials and/or workmanship for the periods indicated. This warranty is applicable to all models included in the following series of products:

PSR SERIES OF PORTATONE ELECTRONIC KEYBOARDS

If during the first 90 days that immediately follows the purchase date, your new Yamaha product covered by this warranty is found to have a defect in material and/or workmanship, Yamaha and/or its authorized representative will repair such defect without charge for parts or labor.

If parts should be required after this 90 day period but within the one year period that immediately follows the purchase date, Yamaha will, subject to the terms of this warranty, supply these parts without charge. However, charges for labor, and/or any miscellaneous expenses incurred are the consumers responsibility. Yamaha reserves the right to utilize reconditioned parts in repairing these products and/or to use reconditioned units as warranty replacements.

THIS WARRANTY IS THE ONLY EXPRESS WARRANTY WHICH YAMAHA MAKES IN CONNECTION WITH THESE PRODUCTS. ANY IMPLIED WARRANTY APPLICABLE TO THE PRODUCT, INCLUDING THE WARRANTY OF MERCHANT ABILITY IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY. YAMAHA EXCLUDES AND SHALL NOT BE LIABLE IN ANY EVENT FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Some states do not allow limitations that relate to implied warranties and/or the exclusion of incidental or consequential damages. Therefore, these limitations and exclusions may not apply to you.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

CONSUMERS RESPONSIBILITIES

If warranty service should be required, it is necessary that the consumer assume certain responsibilities:

- 1. Contact the Customer Service Department of the retailer selling the product, or any retail outlet authorized by Yamaha to sell the product for assistance. You may also contact Yamaha directly at the address provided below.
- Deliver the unit to be serviced under warranty to: the retailer selling the product, an authorized service center, or to Yamaha with an explanation of the problem. Please be prepared to provide proof purchase date (sales receipt, credit card copy, etc.) when requesting service and/or parts under warranty.
- 3. Shipping and/or insurance costs are the consumers responsibility.* Units shipped for service should be packed securely.

*Repaired units will be returned PREPAID if warranty service is required within the first 90 days.

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.

4. Your owners manual contains important safety and operating instructions. It is your responsibility to be aware of the contents of this manual and to follow all safety precautions.

EXCLUSIONS

This warranty does not apply to units whose trade name, trademark, and/or ID numbers have been altered, defaced, exchanged removed, or to failures and/or damages that may occur as a result of:

- $1. \ Neglect, abuse, abnormal strain, modification or exposure to extremes in temperature or humidity.\\$
- 2. Improper repair or maintenance by any person who is not a service representative of a retail outlet authorized by Yamaha to sell the product, an authorized service center, or an authorized service representative of Yamaha.
- 3. This warranty is applicable only to units sold by retailers authorized by Yamaha to sell these products in the U.S.A., the District of Columbia, and Puerto Rico. This warranty is not applicable in other possessions or territories of the U.S.A. or in any other country.

Please record the model and serial number of the product you have purchased in the spaces provided below.

Model	Serial #	Sales Slip #
Purchased from(Retailer)		Date

YAMAHA CORPORATION OF AMERICA Electronic Service Division 6600 Orangethorpe Avenue Buena Park, CA 90620

KEEP THIS DOCUMENT FOR YOUR RECORDS. DO NOT MAIL!

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For details of products, please contact your nearest Yamaha or the authorized distributor listed below.

Pour plus de détails sur les produits, veuillez-vous adresser à Yamaha ou au distributeur le plus proche de vous figurant dans la liste suivante.

Die Einzelheiten zu Produkten sind bei Ihrer unten aufgeführten Niederlassung und bei Yamaha Vertragshändlern in den jeweiligen Bestimmungsländern erhältlich.

Para detalles sobre productos, contacte su tienda Yamaha más cercana o el distribuidor autorizado que se lista debajo.

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135 Milner Avenue, Scarborough, Ontario, M1S 3R1, Canada Tel: 416-298-1311

U.S.A.

Yamaha Corporation of America

6600 Orangethorpe Ave., Buena Park, Calif. 90620, U.S.A.

Tel: 714-522-9011

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Yamaha de Mexico S.A. De C.V.,

Departamento de ventas

Javier Rojo Gomez No.1149, Col. Gpe Del Moral, Deleg. Iztapalapa, 09300 Mexico, D.F. Tel: 686-00-33

Yamaha Musical do Brasil LTDA.

Av. Rebouças 2636, São Paulo, Brasil Tel: 011-853-1377

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Yamaha Music Argentina S.A.

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61D, Sallynoggin Road, Dun Laoghaire, Co. Dublin Tel: 01-2859177

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Yamaha Music Belgium

Keiberg Imperiastraat 8, 1930 Zaventem, Belgium Tel: 02-7258220

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Yamaha Musique France.

Division Claviers

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Yamaha-Hazen Electronica Musical, S.A.

Jorge Juan 30, 28001, Madrid, Spain Tel: 91-577-7270

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Yamaha Scandinavia AB

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YS Copenhagen Liaison Office

Generatorvei 8B DK-2730 Herley, Denmark Tel: 44 92 49 00

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F-Musiikki Oy Kluuvikatu 6, P.O. Box 260, SF-00101 Helsinki, Finland Tel: 09 618511

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Grini Næringspark 1 N-1345 Østerås, Norway Tel: 67 16 77 70

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11/F., Silvercord Tower 1, 30 Canton Road, Tsimshatsui, Kowloon, Hong Kong Tel: 2737-7688

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Cosmos Corporation

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Yamaha Music Malaysia, Sdn., Bhd.

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