

PortableGrand

# DGX-220 YPG-225

## Owner's Manual





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## 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.

92-BP (bottom)

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

## FCC INFORMATION (U.S.A.)

- 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.

\* This applies only to products distributed by YAMAHA CORPORATION OF AMERICA.

(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, sålæenge 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)

#### Entsorgung leerer Batterien (nur innerhalb Deutschlands)

Leisten Sie einen Beitrag zum Umweltschutz. Verbrauchte Batterien oder Akkumulatoren dürfen nicht in den Hausmüll. Sie können bei einer Sammelstelle für Altbatterien bzw. Sondermüll abgegeben werden. Informieren Sie sich bei Ihrer Kommune.

(battery)

## PRECAUTIONS

## PLEASE READ CAREFULLY BEFORE PROCEEDING

\* Please keep this manual 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:

#### Power supply/AC power adaptor

- Only use the voltage specified as correct for the instrument. The required voltage is printed on the name plate of the instrument.
- Use the specified adaptor (PA-5D or an equivalent recommended by Yamaha) only. Using the wrong adaptor can result in damage to the instrument or overheating.
- Check the electric plug periodically and remove any dirt or dust which may have accumulated on it.
- 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.

#### Do not open

 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.

#### Water warning

- 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.
- Never insert or remove an electric plug with wet hands.

#### Fire warning

• Do not put burning items, such as candles, on the unit. A burning item may fall over and cause a fire.

#### If you notice any abnormality

 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.

## 

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:

#### Power supply/AC power adaptor

- When removing the electric plug from the instrument or an outlet, always hold the plug itself and not the cord.
- Unplug the AC power adaptor when not using the instrument, or during electrical storms.
- 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.

#### Battery

- Always make sure all batteries are inserted in conformity with the +/- polarity markings. Failure to do so might result in overheating, fire, or battery fluid leakage.
- Always replace all batteries at the same time. Do not use new batteries together with old ones. Also, do not mix battery types, such as alkaline batteries with manganese batteries, or batteries from different makers, or different types of batteries from the same maker, since this can cause overheating, fire, or battery fluid leakage.
- Do not dispose of batteries in fire.

- Do not attempt to recharge batteries that are not intended to be charged.
- When the batteries run out, or if the instrument is not to be used for a long time, remove the batteries from the instrument to prevent possible leakage of the battery fluid.
- Keep batteries away from children.
- If the batteries do leak, avoid contact with the leaked fluid. If the battery fluid should come in contact with your eyes, mouth, or skin, wash immediately with water and consult a doctor. Battery fluid is corrosive and may possibly cause loss of sight or chemical burns.

#### Location

- 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 in the vicinity of a TV, radio, stereo equipment, mobile phone, or other electric devices. Otherwise, the instrument, TV, or radio may generate noise.
- 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 setting up the instrument, make sure that the AC outlet you are using is
  easily accessible. If some trouble or malfunction occurs, immediately turn off
  the power switch and disconnect the plug from the outlet.
- Use only the stand specified for the instrument. When attaching the stand or rack, use the provided screws only. Failure to do so could cause damage to the internal components or result in the instrument falling over.

#### Connections

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.

#### Maintenance

• When cleaning the instrument, use a soft, dry cloth. Do not use paint thinners, solvents, cleaning fluids, or chemical-impregnated wiping cloths.

#### Handling caution

- Do not insert a finger or hand in any gaps on the instrument.
- Never insert or drop paper, metallic, or other objects into the gaps on the panel or keyboard. If this happens, turn off the power immediately and unplug the power cord from the AC outlet. Then have the instrument inspected by qualified Yamaha service personnel.
- 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.
- 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 data

#### Saving and backing up your data

The panel settings and some other types of data is lost when you turn off the power to the instrument. Save the data to the Registration Memory (page 73.) Saved data may be lost due to malfunction or incorrect operation. Save important data to an external device such as a computer. (page 84.)

#### Backing up the external media

• To protect against data loss through media damage, we recommend that you save your important data onto two external media.

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.

When using a power adaptor, even when the power switch is in the "STANDBY" position, electricity is still flowing to the instrument at the minimum level. When you are not using the instrument for a long time, make sure you unplug the AC power adaptor from the wall AC outlet.

Make sure to discard used batteries according to local regulations.

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

#### Trademarks

• Windows is the registered trademark of Microsoft® Corporation.

• The company names and product names in this Owner's Manual are the trademarks or registered trademarks of their respective companies.

## **Copyright Notice**

The following is the title, credits and copyright notices for the song pre-installed in this electronic keyboard:

Mona Lisa from the Paramount Picture CAPTAIN CAREY, U.S.A. Words and Music by Jay Livingston and Ray Evans Copyright © 1949 (Renewed 1976) by Famous Music Corporation International Copyright Secured All Rights Reserved

Composition Title : Against All Odds Composer's Name : Collins 0007403 Copyright Owner's Name : EMI MUSIC PUBLISHING LTD / HIT & RUN MUSIC LTD Can't Help Falling In Love from the Paramount Picture BLUE HAWAII Words and Music by George David Weiss, Hugo Peretti and Luigi Creatore Copyright © 1961 by Gladys Music, Inc. Copyright Renewed and Assigned to Gladys Music All Rights Administered by Cherry Lane Music Publishing Company, Inc. and Chrysalis Music International Copyright Secured All Rights Reserved

#### All Rights Reserved, Unauthorized copying, public performance and broadcasting are strictly prohibited.

This product incorporates and bundles computer programs and contents in which Yamaha owns copyrights or with respect to which it has license to use others' copyrights. Such copyrighted materials include, without limitation, all computer software, style files, MIDI files, WAVE data, musical scores and sound recordings. Any unauthorized use of such programs and contents outside of personal use is not permitted under relevant laws. Any violation of copyright has legal consequences. DON'T MAKE, DISTRIBUTE OR USE ILLEGAL COPIES.

This device is capable of using various types/formats of music data by optimizing them to the proper format music data for use with the device in advance. As a result, this device may not play them back precisely as their producers or composers originally intended.

Copying of the commercially available musical data including but not limited to MIDI data and/or audio data is strictly prohibited except for your personal use.

## **Panel Logos**



#### **GM System Level 1**

"GM System Level 1" is an addition to the MIDI standard which ensures that any GM-compatible music data can be accurately played by any GM-compatible tone generator, regardless of manufacturer. The GM mark is affixed to all software and hardware products that support GM System Level.



#### XGlite

As its name implies, "XGlite" is a simplified version of Yamaha's high-quality XG tone generation format. Naturally, you can play back any XG song data using an XGlite tone generator. However, keep in mind that some songs may play back differently compared to the original data, due to the reduced set of control parameters and effects.



#### USB

USB is an abbreviation for Universal Serial Bus. It is a serial interface for connecting a computer with peripheral Devices. It allows "hot swapping" (connecting peripheral devices while the power to the computer is on).



## STYLE FILE

The Style File Format 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.

Congratulations and thank you for purchasing the Yamaha DGX-220/YPG-225 Portable Grand!

Please read this owner's manual carefully before using the instrument in order to take full advantage of its various features.

Make sure to keep this manual in a safe and handy place even after you finish reading, and refer to it often when you need to better understand an operation or function.

## **Accessories**

The DGX-220/YPG-225 package includes the following items. Please check that you have them all.

- Owner's Manual
- Music rest
- Accessory CD-ROM



## **Special Features of the DGX-220/YPG-225**

#### Play a Variety of Instrument Voices ► Page 14

The instrument voice that sounds when you play the keyboard can be changed to violin, flute, harp, or any of an extensive range of voices. You can change the mood of a song written for piano, for example, by using violin to play it instead. Experience a whole new world of musical variety.

#### Play Along with Styles ► Page 19

Want to play with full accompaniment? Try the auto-accompaniment Styles. The accompaniment styles provide the equivalent of a full backing band covering a wide variety of styles from waltzes to 8-beat to euro-trance ... and much more. Select a style that matches the music you want to play, or experiment with new styles to expand your musical horizons.

#### Performance assistant technology Page 29

Play along with a song on the instrument's keyboard and produce a perfect performance every time ... even if you play wrong notes! All you have to do is play on the keyboard-alternately on the left- and right-hand ranges of the keyboard, for example-and you'll sound like a pro as long as you play in time with the music.

#### Learning Music is Fun ► Page 36

This instrument includes a range of songs covering a variety of genres that are enjoyable to listen to, or to play along with. You can start practicing with just one hand, and you can even practice at your own tempo, one note at a time as slowly as you like, until you are able to play at full speed. Song playback will automatically follow your tempo. You can also use songs you have downloaded from the Internet for lessons, so your musical resources are essentially unlimited! The instrument will even evaluate and grade your performance for you!

Excellen







PorBossa

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### Be sure to do the following operations BEFORE turning on the power.

## **Power Requirements**

Although the instrument will run either from an optional AC adaptor or batteries, Yamaha recommends use of an AC adaptor whenever possible. An AC adaptor is more environmentally friendly than batteries and does not deplete resources.



Replace the compartment cover, making sure that it locks firmly in place.

 Connecting the AC power adaptor automatically supplies power from the adaptor and overrides battery power, even when batteries are installed.



For battery operation the instrument requires six 1.5V "D" size, R20P (LR20) or equivalent batteries. (Alkaline batteries are recommended.) When battery power becomes too low for proper operation, make sure to replace all batteries, following the precautions listed below.

If necessary, also make sure to save all important User data (see page 49), since custom panel settings are lost when the batteries are removed.

#### 

- Use only manganese or alkaline batteries for this instrument. Other types of batteries (including rechargeable batteries) may exhibit a sudden drop in power when the batteries are low, possibly resulting in a loss of flash memory data.
- Be sure to install the batteries in the same direction, maintaining the correct polarity (as shown). Incorrect battery installation may result in heat, fire and/or leaking of corrosive chemicals.
- When the batteries run down, replace them with a complete set of six new batteries. NEVER mix old and new batteries. Do not use different kinds of batteries (e.g. alkaline and manganese) at the same time.
- If the instrument will not be used for an extended period of time, remove the batteries to prevent possible fluid leakage.
- Please use the power adaptor when transferring data to flash memory. Batteries (including rechargeable types) can be drained rapidly by this type of operation. If the batteries do become drained during a data transfer, both the data being transferred and the data currently in the transfer destination will be lost.

NOTE

### Make all necessary connections below BEFORE turning the power on.

### **Connecting Headphones (PHONES/OUTPUT Jack)**



The DGX-220/YPG-225 speakers are automatically shut off when a plug is inserted into this jack.

The PHONES/OUTPUT jack also functions as an external output. You can connect the PHONES/OUTPUT jack to a keyboard amplifier, stereo system, mixer, tape recorder, or other line-level audio device to send the instrument's output signal to that device.

#### 

 Avoid listening with the headphones at high volume for long periods of time; doing so may not only result in ear fatigue, it may be damaging to your hearing.

#### 

 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. Also, be sure to set the volumes of all devices at their minimum levels and gradually raise the volume controls while playing the instrument to set the desired listening level.

#### **Connecting a Footswitch (SUSTAIN Jack)**



The sustain function lets you produce a natural sustain as you play by pressing a footswitch. Plug the Yamaha FC4 or FC5 footswitch into this jack and use it to switch sustain on and off.

#### **Connecting to a Computer (USB Terminal)**



Connect the instrument's USB terminal to the USB terminal of a computer, and you can transfer performance data and song files between the two (page 79). To use the USB data-transfer features you'll need to do the following:

• First, make sure the POWER switch on the instrument is set to OFF, then use a USB cable to connect the instrument to the computer. After making the connections, turn on the power of the instrument.

• Install the USB MIDI driver on your computer. Installation of the USB MIDI driver is described on page 87.

NOTE

Make sure to purchase a quality USB cable at a musical instrument store, computer store or electrical appliance store.

#### **Turning the Power On**

Turn down the volume by turning the [MASTER VOL-UME] control to the left and press the [STANDBY/ON] switch to turn on the power. Press the [STANDBY/ON] switch again to turn the power OFF.



Backup data in the flash memory is loaded to the instrument when the power is turned on. If no backup data exists on flash memory, all instrument settings are restored to the initial factory defaults when the power is turned on.

#### 

• 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 instrument for a long time, make sure you unplug the AC power adaptor from the wall AC outlet, and/or remove the batteries from the instrument.

#### $\triangle$ caution

 Never attempt to turn the power off when a "WRITING!" message is shown in the display. Doing so can damage the flash memory and result in data loss.

NOTE

Make sure that the footswitch plug is properly connected to the SUS-TAIN jack before turning on the power.

Do not press the footswitch while turning the power on. Doing this changes the recognized polarity of the footswitch, resulting in reversed footswitch operation.

## **Front Panel**



#### Front Panel

I [STANDBY/ON] switch ...... page 11
[MASTER VOLUME] control .... pages 11, 50
[P.A.T. ON/OFF] button ..... page 30
[MUSIC DATABASE] button ..... page 42
[FUNCTION] button ..... page 75
LESSON [L], [R], [START] buttons . page 37
[METRONOME ON/OFF] button .... page 36
[TEMPO/TAP] button ..... page 35
SONG MEMORY [REC], [1]–[5], [A] buttons.... page 45
[REPEAT & LEARN]/ [ACMP ON/OFF] button .... pages 41, 20
[A-B REPEAT]/ [INTRO/ENDING/rit.] button .... pages 71, 64

[REW]/ [MAIN/AUTO FILL] buttonpages 26, 64
[FF]/ [SYNC STOP] buttonpages 26, 64
[PAUSE]/ [SYNC START] buttonpages 26, 63
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<b>[</b> [SONG] button page 25
[EASY SONG ARRANGER] button page 43
<b>()</b> [STYLE] button page 19
<b>[VOICE] button</b> page 14
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② CATEGORY [★] and [▼] buttonspages 51, 75

Voice Category List (page 100)



2 Number buttons [0]–[9], [+] and [-] buttons pages 51, 75
[DEMO] button page 26
B REGIST MEMORY [MEMORY/BANK],
[1], [2] buttons page 73
[PORTABLE GRAND] button page 17
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[DUAL ON/OFF] button page 15
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PITCH BEND wheel page 59

Rear Pane
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USB terminal	pages 11, 79
SUSTAIN jack	page 11
PHONES/OUTPUT jack	page 11
OC IN 12V jack	page 10



In addition to piano, organ, and other "standard" keyboard instruments, this instrument has a large range of voices that includes guitar, bass, strings, sax, trumpet, drums and percussion, sound effects ... a wide variety of musical sounds.

## Select and Play a Voice—MAIN

This procedure selects the main voice you will play on the keyboard.

## 1

## Press the [VOICE] button.

The voice number and name will be displayed.



## Select the voice you want to play.

While watching the displayed voice name rotate the dial. The available voices will be selected and displayed in sequence. The voice selected here becomes the main voice.

For this example select the "092 Flute" voice.

NOTE

 You can also select the voice using the CATEGORY [▲] and [♥] buttons after pressing the [VOICE] button. (page 51)



3 Play the keyboard.

Try selecting and playing a variety of voices.

## Play Two Voices Simultaneously—DUAL

You can select a second voice which will play in addition to the main voice when you play the keyboard. The second voice is known as the "dual" voice.

## Press the [DUAL ON/OFF] button. The [DUAL ON/OFF] button turns the dual voice on or off. When turned on the dual voice icon will appear in the display. The currently selected dual voice will sound in addition to the main voice when you play the keyboard.

NOTE

• The dual voice feature cannot be used during a song lesson (page 36).





## 2 Press and hold the [DUAL ON/OFF] button for longer than a second.

"D.VOICE" appears in the display for a few seconds, then the currently selected dual voice will be displayed.

NOTE

 You can also select the Dual Voice display by pressing the [FUNCTION] button and then using the CATEGORY [★] and [▼] buttons to select the "D.Voice" item.



## Select the desired dual voice.

Watch the displayed dual voice and rotate the dial until the voice you want to use is selected. The voice selected here becomes the dual voice. For this example try selecting the "109 Vibraphone" voice.





Try selecting and playing a range of dual voices.

## Play Different Voices with the Left and Right Hands—SPLIT

In the split mode you can play different voices to the left and right of the keyboard "split point". The main and dual voices can be played to the right of the split point, while the voice played to the left of the split point is known as the "split voice". The split point setting can be changed as required (page 65).



## Press the [SPLIT ON/OFF] button.

The [SPLIT ON/OFF] button turns the split voice on or off. When turned on the split voice icon will appear in the display. The currently selected split voice will sound to the left of the keyboard split point.



NOTE

• You can also select the Split

 The split voice feature cannot be used during a song lesson (page 36).



## **2** Press and hold the [SPLIT ON/OFF] button for longer than a second.

"S.VOICE" appears in the display for a few seconds, then the currently selected split voice will be displayed.



## **2** Select the desired split voice.

Watch the displayed split voice and rotate the dial until the voice you want to use is selected. The voice selected here becomes the split voice which will play to the left of the keyboard split point. For this example try selecting the "033 Folk Guitar" voice.







Try selecting and playing a range of split voices.

## **Play the Grand Piano Voice**

When you just want to play piano, all you have to do is press one convenient button.

## Press the [PORTABLE GRAND] button.

The "001 Grand Piano" voice will be selected.



NOTE

• When you press the [PORTA-BLE GRAND] button all settings other than touch sensitivity are turned off. The dual and split voices will also be turned off, so only the Grand Piano voice will play over the entire keyboard.

## Fun Sounds

This instrument includes a range of drum kits and unique sound effects you can use for entertainment. Laughter, babbling brooks, jet fly-bys, eerie effects, and much more. These sounds can be a great way to enhance the mood at parties.

## - Drum Kits -

Drum kits are collections of drum and percussion instruments. When you select a violin or other normal instrument main voice, for example, all keys produce the sound of the same violin, only at different pitches. If you select a drum kit as the main voice, however, each key produces the sound of a different drum or percussion instrument.

### • Drum Kit Selection Procedure $\rightarrow$ (refer to steps 1 and 2 on page 14)

- **1** Press the [VOICE] button.
- **2** Use the dial to select "117 Std.Kit1".

### **3** Try out each key and enjoy the drum and percussion sounds!

Try out each key and enjoy the drum and percussion sounds! Don't forget the black keys! You'll hear a triangle, maracas, bongos, drums ... a comprehensive variety of drum and percussion sounds. For details on the instruments included in the drum kit voices (voice numbers 117 to 128), see the "Drum Kit List" on page 104.



## Sound Effects

The sound effects are included in the drum kit voice group (voice numbers 127 and 128). When either of these voices are selected you will be able to play a range of sound effects on the keyboard.

### ♦ Sound Effect Selection Procedure $\rightarrow$ (refer to steps 1 and 2 on page 14)

**1** Press the [VOICE] button.

**2** Use the dial to select "128 SFX Kit2".

**3** Try out each key and enjoy the sound effects!



As you try out the various keys you'll hear the sound of a submarine, a telephone bell, a creaking door, laughter, and many other useful effects. "127 SFX Kit1" includes lightning, running water, dogs barking, and others. Some keys do not have assigned sound effects, and will therefore produce no sound. For details on the instruments included in the SFX kit voices, see "SFX Kit 1" and "SFX Kit 2" in the "Drum Kit List" on page 104. •



This instrument has an auto accompaniment feature that produces accompaniment (rhythm + bass + chords) in the style you choose to match chords you play with your left hand. You can select from 150 different styles covering a range of musical genres and time signatures (see page 106 for a complete list of the available styles).

In this section we'll learn how to use the auto accompaniment features.

## **Select a Style Rhythm**

Most styles includes a rhythm part. You can select from a wide variety of rhythmic types—rock, blues, Euro trance, and many, many more. Let's begin by listening to just the basic rhythm. The rhythm part is played using percussion instruments only.

## Press the [STYLE] button.

The style number and name will appear in the display.





## Select a style.

Use the dial to select the style you want to use. A list of all the available styles is provided on page 106.





## **2** Press the [START/STOP] button.

The style rhythm will start playing. Press the [START/STOP] button a second time when you want to stop playback.



#### NOTE

 Style numbers 121, 133–150 have no rhythm part and therefore no rhythm will play if you use them for the above example. For these styles first turn auto accompaniment on as described on page 20, press the [START/STOP] button, and the accompaniment bass and chord parts will begin playing when you play a key to the left of the keyboard split point. Play Along with a Style

## You learned how to select a style rhythm on the preceding page. Here we'll see how to add bass and chord accompaniment to the basic rhythm to produce a full, rich accompaniment that you can play along with. Press the [STYLE] button and select the desired style. Turn automatic accompaniment on. Press the [ACMP ON/OFF] button. Pressing this button a second time will turn automatic accompaniment off. 7=,=,=, STYLE ACMP ENDING/rit. AUTO FILL This icon appears when auto-ACMP ON matic accompaniment is on. NOTE • The keyboard split point can be • When automatic accompaniment is on ... changed as required: refer to The area of the keyboard to the left of the split point (54 : F#2) becomes the page 65. "auto accompaniment region" and is used only for specifying the accompaniment chords. Split point (54 : F#2) Auto accompaniment

## Turn sync start on.

region

Press the [SYNC START] button to turn the sync start function on.



When sync start is on, the bass and chord accompaniment included in a style will start playing as soon as you play a note to left of the keyboard split point. Press the button a second time to turn the sync start function off.



### Play a left-hand chord to start the style.

You can still "play" chords even if you don't actually know any chords. This instrument will recognize even a single note as a chord. Try playing from one to three notes at the same time to the left of the split point. The accompaniment will change according to the left-hand notes you play.

### Try this!

Scores for some chord progressions are provided on page 22. These examples should help you get a feel for what types of chord progressions sound good with the styles.



## **5** Play a variety of left-hand chords while playing a melody with your right hand.



## **6** Press the [START/STOP] button to stop style playback when you're done.



You can switch style "sections" to add variety to the accompaniment. Refer to "Pattern Variation (Sections)" on page 63.

## **Styles Are More Fun When You Understand Chords**

Chords, created by playing multiple notes at the same time, are the basis for harmonic accompaniment. In this section we'll take a look at sequences of different chords played one after another, or "chord sequences". Since each chord has it's own unique "color"—even if it's different fingerings of the same chord—the chords you choose to use in your chord progressions have a huge influence on the overall feel of the music you play.

On page 20 you learned how to play colorful accompaniments using styles. Chord progressions are vital to creating interesting accompaniments, and with a little chord know-how you should be able to take your accompaniments to a new level.

On these pages we'll introduce three easy-to-use chord progressions. Be sure to try them out with the instrument's accompaniment styles. The style will respond to the chord progression you play, effectively creating a complete song.

## ■Playing the Chord Progressions .....

Play the scores with the left hand.

Before playing the scores follow steps 1 through 3 of "Play Along with a Style" on page 20.

\* The scores provided here are not standard song scores, but rather simplified scores that indicate which notes to play to produce the chord progressions.



This is a simple-but-effective chord progression. When you play through to the end of the score, start again from the beginning. When you're ready to stop playing press the [INTRO/ENDING/rit.] button and the auto accompaniment function will create a perfect ending.



This progression provides varied harmonic backing with just three chords. When you get a feel for the progression in the score, try changing the order of the chords!



This progression includes jazzy "two-five" (II-V) changes. Try playing it through several times. When you're ready to stop playing press the [INTRO/ENDING/rit.] button.

## **Playing Auto-accompaniment Chords**

There are two ways of playing auto-accompaniment chords:

Easy Chords

#### Standard Chords

The instrument will automatically recognize the different chord types. This function is called Multi Fingering.

Press the [ACMP ON/OFF] button to turn auto-accompaniment on (page 20). The keyboard to the left of the split point (default: 54/F#2) becomes the "accompaniment range". Play the accompaniment chords in this area of the keyboard.



## Easy Chords .....

This method lets you easily play chords in the accompaniment range of the keyboard using only one, two, or three fingers.



## Standard Chords .....

This method lets you produce accompaniment by playing chords using normal fingerings in the accompaniment range of the keyboard.



\* Notes enclosed in parentheses ( ) are optional; the chords will be recognized without them.

## Jsing Songs

With this instrument the term "song" refers the data that makes up a piece of music. You can simply enjoy listening to the 30 internal songs, or use them with just about any of the many functions provided—the performance assistant technology feature, lessons, and more. The songs are organized by category.

In this section we'll learn how to select and play songs, and briefly describe the 30 songs provided.



## Select and Listen to a Song

## Press the [SONG] button.

The song number and name will be displayed. You can use the dial to select a different song.



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0		



## 2

Quic

## Select a song.

Select a song after referring to the preset song category list on page 27. Use the dial to select the song you want to listen to.





The song displayed here can be played

NOTE

 You can also play songs you have recorded yourself (User Songs) or songs that have been transferred to the instrument from a computer in the same way that you play the internal songs.

001–030	001–030 Built in Songs (see next page)	
031–035 User Songs (Songs you record yourself).		
036– Songs transferred from a computer (pages 82–84)		



Press the [START/STOP] button to begin playback of the selected song. You can stop playback at any time by pressing the [START/STOP] button again.



### • Using the [DEMO] button

Press the [DEMO] button to play Songs 001–008 in sequence. Playback will repeat when the end of the sequence is reached, starting again from the first Song (001).

You can select a song by using the [-] and [+] buttons after pressing the [DEMO] button.

You can stop playback at any time by pressing the [DEMO] button.



## Song Fast Forward, Fast Reverse, and Pause

These are just like the transport controls on a cassette deck or CD player, letting you fast forward [FF], rewind [REW] and pause [PAUSE] playback of the song.





• When an A-B repeat range is specified the fast reverse and forward function will only work within that range.

### Song List

These 30 songs include songs that effectively demonstrate the instrument's easy song arranger feature, songs that are ideally suited for use with the performance assistant technology feature, and more. The "Suggested Uses" column provides some ideas as to how the songs can most effectively used.

Category	No.	Name	Suggested Uses
	1 CHORD	Magnetic	The songs in this category have been created to
Main Demo	2 CHORD	Jessica	give you an idea of the advanced capabilities of this instrument. They're great for listening, or for use with
	3 CHORD	Winter Serenade	the performance assistant technology feature.
	4 CHORD	Grand Piano Demo	
	5 CHORD	Sweet! TenorSax Demo	These songs features some of the instrument's
Voice Demo	6 CHORD	Cool! RotorOrgan Demo	many useful voices. They make maximum use of the characteristics of each voice, and might serve as
	7 CHORD	Cool! Galaxy Electric Piano Demo	inspiration for your own compositions.
	8 CHORD	ModernHarp & Sweet Soprano Demo	
	9 CHORD	Hallelujah Chorus	Use these songs to experience some of the
Funciton Demo	10 CHORD	Ave Maria	instrument's advanced features: song number 9 for the easy song arranger, and songs 10 and 11 for the
	11 CHORD	Nocturne op.9-2	performance assistant technology feature.
	12	For Elise	
Piano Solo	13	Maple Leaf Rag	These piano solo pieces are ideally suited for use as lesson songs.
	14	Jeanie with the Light Brown Hair	
	15 CHORD	Amazing Grace	
	16 CHORD	Mona Lisa (Jay Livingston and Ray Evans)	A selection of piano ensemble songs that are also
Piano Ensemble	17	Piano Concerto No.21 2nd mov.	well suited for use as lesson songs.
	18 CHORD	Scarborough Fair	
	19 CHORD	Old Folks at Home	
	20 CHORD	Ac Ballad (Against All Odds: Collins 0007403)	
	21 (HORD 22 (HORD 23 (HORD	Ep Ballad	
		Boogie Woogie	
		Rock Piano	
	24 CHORD	Salsa	When you need to practice backing
Diana Assamasing sat	25 CHORD	Country Piano	(accompaniment) patterns, these are the songs to do it with. This is ability you'll need if you're invited to
Piano Accompaniment	26 CHORD	Gospel R&B	play with a band. These songs allow you to practice backing parts one hand at a time, which can be the
	27 CHORD	Medium Swing	easiest way to master this important skill.
	28 CHORD	Jazz Waltz	
	29 CHORD	Medium Bossa	
	30 (CHORD)	Slow Rock (Can't Help Falling In Love: George David Weiss, Hugo Peretti and Luigi Creatore)	

#### CHORD : Includes chord data.

The scores for the internal songs—except for songs 1–11, and song 16, 20 and 30 which is copyrighted, are provided in the Song Book on the CD-ROM. The scores for songs 9–11 are provided in this manual.

Some of the classic and/or traditional songs have been edited for length or for ease in learning, and may not be exactly the same as the original.

## **Types of Songs**

The following three types of songs can be used by the DGX-220/YPG-225.

- Preset Songs (the 30 songs built into the instrument)......Song numbers 001–030.
- External song files (song data transferred from a computer\*) ... Song numbers 036–.

\* The Accessory CD-ROM includes a selection of 70 MIDI songs. See page 83 for instructions on how to transfer the songs to the instrument.

The chart below shows the basic DGX-220/YPG-225 processes flow for using the preset songs, user songs, and external song files—from storage to playback.



## The Easy Way to Play Piano

This instrument includes a performance assistant technology feature that lets you play along with a song and sound like a great pianist (even though you might be making lots of mistakes)! In fact, you can play any notes and still sound good! So even if you can't play piano and can't read a note of music, you can have some musical fun.

Performance assistant technology offers two selectable types. Select the type that produces the best results for you.

• **Chord** ...... No matter where or what you play, the result will be musical, well-balanced sound. This type offers the greatest freedom, allowing you to play anything with both your left and right hands.



## • Chord/Free (CHD/FREE)

.....If you can play simple right-hand melodies but have trouble with left-hand chords, this is the type for you. The Chord type applies to only the left-hand section of the keyboard, allowing you to easily play chords to support the melody you are playing with your right hand.



Refer to page 34 for more information on using performance assistant technology to help you play.

## CHORD Type—Play with Both Hands

## Press the [P.A.T. ON/OFF] button.

This turns on the performance assistant technology feature. The P.A.T. icon will appear when the performance assistant technology feature is on.



Press and hold the [P.A.T. ON/OFF] button for longer than a second. "PAT Type" appears in the display for a few seconds, then the currently selected performance assistant technology type will be displayed. Select the Chord type by using the dial.

## Select a song.

Press the [SONG] button, and the Song Select display appears. Select a song by using the dial. For this example try selecting the "010 Ave Maria".

**NOTE** ▲
• Using Songs (page 25)



#### • What is a Song?

You know the normal meaning of this word, but in this instrument the term "Song" refers to the data that makes up a complete song. The performance assistant technology features uses the chord and melody data, and should always be used with a song (page 25).



Song playback will begin.

The basic pattern will play repeatedly. Listen to the basic pattern for four measures while getting a feel for the basic pattern, then begin playing yourself from the fifth measure.

### Play on the keyboard.



Try playing the score on the left with both hands. You can even play the same keys over and over: C, E, G, C, E, G, C, E. You'll notice that at measure five the notes will come out according to the score on the right. Keep playing, and performance assistant technology Chord type will continue to "correct" the notes that you play. This is the performance assistant technology Chord type.

You can stop song playback at any time by pressing the [START/STOP] button.

## Press the [P.A.T. ON/OFF] button to turn the performance assistant technology feature off.



• The score for Ave Maria is provided on page 96.

## CHD/FREE Type—Applying the Chord Type to the Left Hand Only

## Press the [P.A.T. ON/OFF] button.

This turns on the performance assistant technology feature. The P.A.T. icon will appear when the performance assistant technology feature is on.



Press and hold the [P.A.T. ON/OFF] button for longer than a second. "PAT Type" appears in the display for a few seconds, then the currently selected performance assistant technology type will be displayed. Select the CHD/FREE type by using the dial.

Select a song.

Press the [SONG] button, and the Song Select display appears. Select a song by using the dial. For this example try selecting the "011 Nocturne".

NOTE • Using Songs (page 25)





Song playback will begin.



## Play on the keyboard.

Play to the right of the split point with your right hand, and to the left of the split point with your left hand.



Play the Nocturne melody with your right hand. Continually play an F-A-C arpeggio shown in the illustration with your left hand. Although you're repeatedly playing the same notes with your left hand, the actual notes produced will change to match the music. This is the performance assistant technology CHD/FREE type.

You can stop song playback at any time by pressing the [START/STOP] button.

## Press the [P.A.T. ON/OFF] button to turn the performance assistant technology feature off.

NOTE • The score for Nocturne is provided on page 98.



To use the performance assistant technology feature it is necessary to play a song that includes chord data, or a style with auto accompaniment on.

If a song includes the required data, the chords are shown on the right side of the display (page 52).

## **Change the Song Tempo**

When using the performance assistant technology or in other situations in which the tempo of the song is too fast or too slow for you, you can change the tempo as required. Press the [TEMPO/TAP] button. The tempo display will appear and you can use the dial, the [+] and [-] buttons, or the [0] to [9] number buttons to set to tempo to anywhere from 011 and 280 quarter-note beats per minute.



You can return to the original tempo by simultaneously pressing the [+] and [-] buttons.

### • About the Beat Display

The arrow marks in the beat display flash in time with the rhythm of the song or style.



## Select a Song For a Lesson

## Yamaha Education Suite

You can select song you like and use it for a left-hand, right-hand, or both-hands lesson. You can also use songs (only SMF format 0) downloaded from the Internet and saved to flash memory. (pages 82–84) During the lesson you can play as slowly as you like, and you can even play wrong notes. Song playback will slow down to a speed you can handle. It's never too late to start learning!

### **Lesson Flow:**

Select a song from the Piano Solo, Piano Ensemble category!



### The practice methods:

- Lesson 1 ..... Learn to play the correct notes.
- Lesson 2 ..... Learn to play the correct notes with the correct timing.
- Lesson 3 ..... Learn to play the correct notes at the correct timing along with the song.

## Lesson 1—Waiting

In this lesson, try playing the correct notes. Play the note shown in the display. The song will wait until you play the right note.

## 1

## Select a song for your lesson.

Press the [SONG] button, and rotate the dial to select the song you want to use for your lesson. As listed on page 28 there are a variety of song types. For this example try selecting the "012 ForElise".


#### **7** Select the part you want to practice.

Press the [R] button for a right-hand lesson, [L] button for a left-hand lesson, or press both the [R] and [L] buttons simultaneously for a both-hands lesson.

The currently selected part is shown in the display.



#### Start Lesson 1.

Press the LESSON [START] button to select Lesson 1. Each time the LESSON [START] button is pressed the lesson modes are selected in sequence: Lesson  $1 \rightarrow \text{Lesson } 2 \rightarrow \text{Lesson } 3 \rightarrow \text{Off} \rightarrow \text{Lesson } 1 \dots$  The currently selected mode is shown in the display.



Song playback will begin automatically when you select Lesson 1.

Start the lesson!

Play the note shown in the display. When you play the correct note, the next note you need play is shown. The song will wait until you play the correct note.



#### Stop the Lesson mode.

You can stop the Lesson mode at any time by pressing the [START/ STOP] button.

Once you've mastered Lesson 1, move on to Lesson 2.

#### See How You've Done .....

Excellent	
Very Good	When the lesson sor performance will be e
Good	Good, or Excellent. "
OK	

When the lesson song has played all the way through your performance will be evaluated in 4 levels: OK, Good, Very Good, or Excellent. "Excellent!" is the highest evaluation.

After the evaluation display has appeared, the lesson will start again from the beginning.

NOTE

• The evaluation feature can be turned off via the FUNCTION Grade item (page 77).

# Lesson 2—Your Tempo

Learn to play the correct notes with the correct timing. Song playback tempo will vary to match the speed you are playing at. The song will slow down when you play wrong notes, so you can learn at your own pace.

# **1** Select the song and part you want to practice (steps 1 and 2 on pages 36, 37).

### **7** Start Lesson 2.

Each time the LESSON [START] button is pressed the lesson modes are selected in sequence: Lesson  $1 \rightarrow \text{Lesson } 2 \rightarrow \text{Lesson } 3 \rightarrow \text{Off} \rightarrow \text{Lesson } 1 \dots$ 



Song playback will begin automatically when Lesson 2 is selected.



Play the note shown in the display. Try to play the notes at the correct timing. As you learn to play the right notes at the right timing the tempo will increase until eventually you'll be playing at the song's original tempo.



### **2** Stop the Lesson mode.

You can stop the Lesson mode at any time by pressing the [START/ STOP] button.

Once you've mastered Lesson 2, move on to Lesson 3.

# Lesson 3—Minus One

Here's where you can perfect your technique.

The song will play at the normal tempo, minus the part you have chosen to play. Play along while listening to the song.

# Select the song and part you want to practice (steps 1 and 2 on pages 36, 37).

# **7** Start Lesson 3.

Each time the LESSON [START] button is pressed the lesson modes are selected in sequence: Lesson  $1 \rightarrow \text{Lesson } 2 \rightarrow \text{Lesson } 3 \rightarrow \text{Off} \rightarrow \text{Lesson } 1 \dots$ 



#### Stop the Lesson mode.

You can stop the Lesson mode at any time by pressing the [START/ STOP] button.

# **Practice Makes Perfect—Repeat and Learn**

Use this feature when you want to start again just ahead of a section on which you made a mistake, or to repeatedly practice a section you find difficult.

#### Press the [REPEAT & LEARN] button during a lesson.

The song location will move back four measures from the point at which you pressed the button, and playback will begin after a one-measure count-in. Playback will continue up to the point at which you pressed the [REPEAT & LEARN] button, and then jump back four measures and begin again after a count-in. This process will repeat, so all you have to do is press the [REPEAT & LEARN] button when you make a mistake in order to repeat practice of that section until you get it right.





#### NOTE

• You can change the number of measures the Repeat and learn function jumps back by pressing a number button [1]–[9] during repeat playback.

# Play Using the Music Database

You want to play music in your favorite style, but you're not sure how to select the best voice and style for the type of music you want to play ... simply select the appropriate style from the Music Database. The panel settings will automatically be adjusted for the ideal combination of sounds and style!

Press the [MUSIC DATABASE] button.



[]](,)[];(,);;;)<sup>...</sup> STUE (NUECONAUSE [][] /

A Music Database list will appear in the display.

### Select a Music Database.

Referring to the list on the panel or Music Database List on page 107 of the manual, use the dial to select a music database. Select one that matches the image of the song you intend to play. For this example select the "115 DayOfW&R".



DauOfhl&R

# ${\bf 3}$ Play the chords with your left hand and melody with your right.

The jazz style will start playing when you play a left-hand chord to the left of the split point (page 16). Refer to page 24 for information about playing chords.



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

# Change a Song's Style

In addition to each song's default style, you can select any other style to play the song with the Easy Song Arranger feature. This means that you can play a song that is normally a ballad, for example, as a bossa nova, as a hip-hop tune, etc. You can create totally different arrangements by changing the style with which a song is played. You can also change the song's melody voice and the keyboard voice for a complete change of image.

# Listen to the DEMO Song for Easy Song Arranger

The "Hallelujah Chorus" in the preset songs lets you experience the Easy Song Arranger. Playing it.

Press the [SONG] button, then select a "009 Hallelujah Chorus" by using the dial. Press the [START/STOP] button to play it.



As the song progresses, you will see only the style changes while the song remains the same.

NOTE • The score for Hallelujah Chorus is provided on page 94.

Keep in mind that you can enjoy using Easy Song Arranger with other songs as well—any songs that include chord data.

# **Using the Easy Song Arranger**

# Press the [EASY SONG ARRANGER] button.

The song number and name will be displayed. You can use the dial to select a different song.



#### 2 Select a Song. Use the dial to sel

Use the dial to select the song you want to arrange.



#### Listen to the song.

Press the [START/STOP] button to begin playback of the song. Move on to the next step while the song is playing.



#### NOTE

 When playing song numbers 010, 011 and 020 to 030 while using the Easy Song Arranger, melody tracks will be automatically muted and no melody will sound. In order to hear the melody tracks you will need to press the SONG MEMORY buttons [3] to [5].



### Press the [EASY SONG ARRANGER] button.

The style number and name will be displayed. You can use the dial to select a different style.





The currently selected style number and name are displayed here.

### Select a style.

Rotate the dial and listen to how the song sounds with different styles. As you select different styles the song will remain the same while only the styles change. When you have selected a suitable style move on to the next step while the song is still playing (if you have stopped the song, start it again by pressing the [START/STOP] button).

Select a voice you want to play as a song melody.

Press the [VOICE] button. The currently selected voice number and name will be displayed. Use the dial to select a different voice.

# NOTE Because the Easy Song Arronger uses song data

- Arranger uses song data you can't specify chords by playing in the accompaniment range of the keyboard. The [ACMP ON/ OFF] button will not function.
- If the time signature of the song and style are different, the time signature of the song will be used.



#### Change the song's melody voice.

Press and hold the [VOICE] button for longer than a second. After SONG MELODY VOICE appears on the display the voice you selected in step 6 becomes the song's melody voice.





# Record Your Own Performance

You can record up to 5 of your own performances and save them as user songs 031 through 035. The recoreded song can be played back on the instrument.

#### Recordable Data

You can record to a total of 6 tracks: 5 melody tracks and 1 style (chord) track. Each track can be recorded individually.

- Melody Track [1]–[5]..... Record the melody parts.
- Style Track [A] ..... Records the chord part.

#### NOTE

 Up to approximately 10,000 notes can be recorded if you record only to the melody tracks. Up to approximately 5,500 chord changes can be recorded if you record only to the style track.

### **Track Configuration**

To record your own performance, first use the SONG MEMORY [1]–[5] and [A] buttons to specify the track(s) you want to record on. The track you record on determines the part that plays back later.



### **Recording Procedure**

**1** Press the [SONG] button, then use the dial to select the user song number (031–035) you want to record to.



# **2** Select the track(s) you want to record to and confirm your selection on the display.

#### Record a Melody Track and the Accompaniment Track Together

Press the melody track button [1]–[5] you want to record to while holding the [REC] button.

Next, press the [A] button while holding the [REC] button. The selected tracks will flash in the display.



#### Record a Melody track

Press the melody track button [1]–[5] you want to record to while holding the [REC] button.

The selected track will flash in the display.



To cancel recording to a selected track, press that track button a second time. Style accompaniment cannot be turned on or off while recording is in progress.

# ${f 2}$ Recording will start when you play on the keyboard.

You can also start recording by pressing the [START/STOP] button. The current measure will be shown on the display during recording.



# Stop recording by pressing the [START/STOP] or [REC] button.



#### 

 If you record to a track that contains previously-recorded data the previous data will be overwritten and lost.

#### NOTE

- Style accompaniment is automatically turned on when you select the style track [A] for recording.
- Style accompaniment cannot turned on or off while recording is in progress.
- If you use a split voice for recording, notes played to the left of the split point will not be recorded.

#### NOTE

 If style accompaniment is on and track [A] has not yet been recorded, the style track [A] will automatically be selected for recording when a melody track is selected. If you only want to record a melody track, be sure to turn the style track [A] off.

NOTE

 If the memory becomes full during recording a warning message will appear and recording will stop automatically. Use the song clear or track clear (page 48) function to delete unwanted data and make more room available for recording, then do the recording again. If you press the [INTRO/ENDING/rit.] button while recording the style track an appropriate ending pattern will play and then recording will stop. When recording stops the current measure number will return to 001 and the recorded track numbers in the display will light.

#### • To Record Other Tracks

Repeat steps 2 through 4 to record any of the remaining tracks. By selecting an unrecorded track—SONG MEMORY buttons [1]–[5], [A]—you can record the new track while listening to previously recorded tracks (the playback tracks will appear in the display). You can also mute previously recorded tracks (the muted tracks will not appear in the display) while recording new tracks.

#### • To Re-record a Track

Simple select the track you want to re-record for recording in the normal way.

The new material will overwrite the previous data.



#### When the recording is done ...

#### ◆ To Play Back a User Song

User songs are played back in the same way as regular songs (page 25).

- **1** Press the [SONG] button.
- **2** The current song number/name will be displayed—use the dial to select the user song (031–035) you want to play.
- **3** Press the [START/STOP] button to start playback.

#### • Data Recording Limitations

- The split voice cannot be recorded.
- The following data are recorded at the beginning of the track. Changes made during the song will not be recorded. reverb type, chorus type, time signature, style number, style volume, tempo (When the style track is recorded)

# Song Clear—Deleting User Songs

This function clears an entire user song (all tracks).

Press the [SONG] button, then select the user song (031– 035) you want to clear.

#### Press and hold the SONG MEMORY [1] button for longer than a second while holding the SONG MEMORY [A] button.

A confirmation message will appear on the display.



A confirmation message will appear on the display. You can cancel the clear operation by pressing the [-] button.



SONG MEMORY

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### Press the [+] button to clear the song.

The clear-in-progress message will appear briefly on the display while the song is being cleared.

# Track Clear—Deleting a Specified Track from a User Song

This function lets you delete a specified track from a user song.

Press the [SONG] button, then select the user song (031– 035) you want to clear.

#### Press and hold the SONG MEMORY track button ([1]–[5], [A]) corresponding to the track you want to clear for longer than a second.

A confirmation message will appear on the display.





### Press the [+] button.

A confirmation message will appear on the display. You can cancel the clear operation by pressing the [-] button.

### Press the [+] button to clear the track.

The clear-in-progress message will appear briefly on the display while the track is being cleared.

NOTE

• To execute the Track Clear function press the [+] button. Press [-] to cancel the Track Clear operation.



- To execute the Song Clear function press the [+] button. Press [-] to cancel the Song Clear operation.

· If you only want to clear a specific track from a user song use the Track Clear function.

NOTE

# **Backup and Initialization**

# Backup

The following settings are always backed up, and are maintained even when the power is turned off. If you want to initialize the settings, use the Initialize operation as explained below.



# Initialization

This function erases all backup data in the instrument's flash memory and restores the initial default settings. The following initialization procedures are provided.

#### 

To clear data backed up to the internal flash memory—panel user setting, registration memory, user songs, style file 151—turn the power on by pressing the [STANDBY/ON] switch while holding the highest white key on the keyboard. The backed up data will be erased and the default values restored.



### 

To clear song data and style files that have been transferred to the internal flash memory from a computer, turn the power on by pressing the [STANDBY/ON] switch while simultaneously holding the highest white key on the keyboard and the three highest black keys.



#### 

 When you execute the Flash Clear operation, song data you have purchased will also be cleared. Be sure to save data you want to keep to a computer.

# **Basic Operation**

Overall DGX-220/YPG-225 control is based on the following simple operations.





button to start playback of the selected song or style (rhythm).

# **Display Items**

The display shows all of the current basic settings: song, style, voice. It also includes a range of indicators that show the on/off status of a range of functions.





## Harmony

This feature adds harmony notes to the main voice.

# Press the [HARMONY ON/OFF] button to turn Harmony feature on.

To turn Harmony off, press the [HARMONY ON/OFF] button again.



When you press the [HARMONY ON/OFF] button to turn this feature on, the appropriate harmony type for the currently selected main voice is automatically selected.

#### **2** Press and hold the [HARMONY ON/ OFF] button for longer than a second so that the Harmony Type item appears.

"HarmType" appears in the display for a few seconds, and the currently selected harmony type will be displayed. Use the dial to select a different harmony type.



• How to sound each Harmony Type

· Harmony type 01 to 05



• Harmony type 06 to 12 (Trill)



**3** Use the dial to select a harmony type.

Refer to the Effect Type List on page 109 for information about the available harmony types. Try playing the keyboard with the harmony function. The effect and operation of each Harmony Type is different-refer to the below section "How to sound each Harmony Type" as well as the Effect Type List for details.



#### NOTE

- The harmony notes can be added only to the Main Voice, not to Dual or Split Voices.
- The keys left of the Split Point of the keyboard produce no harmony
- notes when the auto accompaniment is on (ACMP ON is lit).

• Harmony type 13 to 19 (Tremolo)



· Harmony type 20 to 26 (Echo)



Keep holding down the keys.

You can adjust the Harmony Volume in the Function Settings (page 62).

# **Adding Reverb**

Reverb lets you play with a rich concert hall type ambience. When you select a style or song the optimum reverb type for the voice used is automatically selected. If you want to select a different reverb type, use the procedure described below.

### Press the [FUNCTION] button.



# 2 Use the CATEGORY [★] and [▼] buttons to select the Reverb Type item.

"Reverb" appears in the display for a few seconds, and the currently selected reverb type will be displayed.



#### **3** Use the dial to select a reverb type.

You can check how the selected reverb type sounds by playing on the keyboard.



Refer to the Effect Type List on page 109 for information about the available reverb types.

#### • Adjusting the Reverb Level

You can individually adjust the amount of reverb that is applied to the main, dual, and split voices. (See page 76).

# **Adding Chorus**

The chorus effect creates a thick sound that is similar to many of the same voices being played in unison. When you select a style or song the optimum chorus type for the voice used is automatically selected. If you want to select a different chorus type, use the procedure described below.

# Press the [FUNCTION] button.



# 2 Use the CATEGORY [★] and [▼] buttons to select the Chorus Type item.

"Chorus" appears in the display for a few seconds, and the currently selected chorus type will be displayed.



#### **3** Use the dial to select a chorus type.

You can check how the selected chorus type sounds by playing on the keyboard.



Refer to the Effect Type List on page 109 for information about the available chorus types.

### • Adjusting the Chorus Level

You can individually adjust the amount of chorus that is applied to the main, dual, and split voices. (See page 76).

Handy Performance Features

### **The Metronome**

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The instrument includes a metronome with adjustable tempo and time signature. Use it to set the tempo that is most comfortable for you.

#### Start the metronome.....

Turn the metronome on and start it by pressing the [METRONOME ON/OFF] button.

To stop the metronome, press the [METRO-NOME ON/OFF] button again.



- Adjusting the Metronome Tempo .....
- Press the [TEMPO/TAP] button to call up the tempo setting.



**2** Use the dial to select a tempo from 11 to 280.



#### Setting the Number of Beats per Measure, and the Length of Each Beat

In this example we'll set up a 5/8 time signature.

Press and hold the [METRONOME ON/ OFF] button for longer than a second to select the number of beats per measure function "TimesigN".



# **2** Use the dial to select the number of beats per measure.

A chime will sound on the first beat of each measure while the other beats will click. All beats will simply click with no chime at the beginning of each measure if you set this parameter to "00".

The available range is from 0 through 60. Select 5 for this example.

NOTE

 The metronome time signature will synchronize to a style or song that is playing, so these parameters cannot be changed while a style or song is playing.

# 3 Press the CATEGORY [★] and [▼] buttons as many times as necessary to select the beat length function "TimesigD".

The currently selected beat length will be displayed.



#### The length of one beat.

#### **4** Use the dial to select the beat length.

Select the required length for each beat: 2, 4, 8, or 16 (half note, quarter note, eighth note, or 16<sup>th</sup> note). Select 8 for this example.

# Adjusting the Metronome

Press the [FUNCTION] button.



2 Use the CATEGORY [★] and [▼] buttons to select the Metronome Volume item.



# **3** Use the dial to set the metronome volume as required.



# **Tap Start**

You can start the song/style by simply tapping the [TEMPO/TAP] button at the required tempo—4 times for time signatures in 4, and three times for time signatures in 3. You can change the tempo during song playback by pressing the button just twice.



# **Touch Response Sensitivity**

When touch response is on you can adjust the keyboard's sensitivity to dynamics in three steps.

### Press the [FUNCTION] button.



#### 2 Use the CATEGORY [★] and [▼] buttons to select the Touch Sensitivity item.

"TouchSns" appears in the display for a few seconds, and the currently selected touch sensitivity will be displayed.



**3** Use the dial in response to keyboard dynamics to select a touch sensitivity setting between 1 and 3. Higher values produce greater (easier) volume variation in response to keyboard dynamics—i.e. greater sensitivity.

A setting of "4" results in a fixed touch response, or no level change no matter how hard or how soft you play the keys.

NOTE ||
• The initial default touch sensitivity setting is "2".

# **Panel Sustain**

This function adds sustain to the keyboard voices. Use it when you want to add sustain to the voices at all times, regardless of footswitch operation. The sustain function does not affect split voice.



**3** You can then use the [+] and [-] buttons to turn panel sustain on or off.

NOTE

• The sustain of some voices may not be markedly affected when the panel sustain function is turned on.

# **Pitch Bend**

The pitch bend wheel can be used to add smooth pitch variations to notes you play on the keyboard. Roll the wheel upward to raise the pitch, or downward to lower the pitch. If you use this feature with a voice such as the "040 Overdriven" guitar voice, you can produce remarkably realistic string-bending effects. You can change the amount of pitch bend produced by the wheel, as described on page 76.



# **Pitch Controls**

#### ◆ Large Pitch Changes (Transpose)

The overall pitch of the instrument can by shifted up or down by a maximum of 1 octave in semitone increments.

Press the [FUNCTION] button.



2 Use the CATEGORY [★] and [▼] buttons to select the Transpose item.



**3** Use the dial to set the transpose value between -12 and +12 as required.

NOTE | • The pitch of Drum Kits voices cannot be changed.

#### Small Pitch Changes (Tuning)

The overall tuning of the instrument can by shifted up or down by a maximum of 100 cents in 1-cent increments (100 cents = 1 semitone).

### Press the [FUNCTION] button.



2 Use the CATEGORY [★] and [▼] buttons to select the Tuning item.



**3** Use the dial to set the tuning value between -100 and +100 as required.

 NOTE
 I

 • The pitch of Drum Kits voices cannot be changed.

# **One Touch Setting**

Sometimes selecting the ideal voice to play with a song or style can be confusing. The One Touch Setting feature automatically selects a well-balanced voice for you when you select a style or song. Simply select voice number "000" to activate this feature.





Use the dial to select voice number 000.

- **2** Select and play back any song (steps 1 to 3 on page 25).
- **3** Play the keyboard and remember the sound of the voice.



If you have stopped playback at some point during this procedure press the [START/STOP] button to start playback again. **4** Use the dial to change songs, then play the keyboard and listen to the voice.



You should hear a different keyboard voice than you played in step 3. Press the [VOICE] button after changing songs to see the name of the voice being used.

# **Adjusting the Harmony Volume**

Press the [FUNCTION] button.



2 Use the CATEGORY [★] and [▼] buttons to select the Harmony Volume item.



**3** Use the dial to set the harmony volume between 000 and 127.

### Select an EQ Setting for the Best Sound

Five different master equalizer (EQ) settings are provided to give you the best possible sound when listening through different reproduction systems—the instrument's internal speakers, headphones, or an external speaker system.

#### Press the [FUNCTION] button.

The currently selected function will appear in the display.



#### 2 Press the CATEGORY [★] and [▼] buttons as many times as necessary to select the master EQ type function "MasterEQ".

"MasterEQ" will be shown in the display for a few seconds, then the currently selected EQ type will appear.





# **3** Use the dial to select the desired Master EQ setting.

Five settings are available: 1–5. Settings 1 and 2 are best for listening via the instrument's built-in speakers, setting 3 is for headphones, and settings 4 and 5 are ideal for listening via external speakers.



Basic operation of the Style (auto-accompaniment) feature is described on page 19 of the Quick Guide.

Here are some other ways you can play the styles, the style volume adjustment procedure, how you can play chords using the styles, and more.

# **Pattern Variation (Sections)**

The DGX-220/YPG-225 features a wide variety of style "sections" that allow you to vary the arrangement of the accompaniment to match the song you are playing.



#### 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.

#### MAIN section

This is used for playing the main part of the Song. It plays a main accompaniment pattern, and repeats indefinitely until another section's button is pressed. There are two variations on the basic pattern (A and B), and the Style playback sound changes harmonically based on the chords you play with your left hand.

#### • Fill-in section

This is automatically added before changing to section A or B.

#### 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.

# **Press the [STYLE] button and then select a style.**

# **2** Press the [ACMP ON/OFF] button to turn auto accompaniment on.



# **3** Press the [SYNC START] button to turn synchro start on.



#### • Synchro Start

When the synchro start standby mode is engaged, style playback will begin as soon as you play a chord in the accompaniment range of the keyboard. You can disengage the synchro-start standby mode by pressing the [SYNC START] button again.





You're now ready to play the intro.

# **6** As soon as you play a chord with your left hand, the Intro of the selected Style starts.

For this example, play a C major chord (as shown below). For information on how to enter chords, see "Playing Auto-accompaniment Chords" on page 24.



### **7** Press the [MAIN/AUTO FILL] button.



When the fill-in is finished, it leads smoothly into the selected main section A/B.

**8** Press the [INTRO/ENDING/rit.] button.



This switches to the ending section. When the ending is finished, the auto accompaniment stops automatically. You can have the ending gradually slow down (ritardando) by pressing the [INTRO/ENDING/rit.] button again while the ending is playing back.

#### • Synchro Stop

When this function is selected the accompaniment style will only play while you are playing chords in the accompaniment range of the keyboard. Style playback will stop when you release the keys. To turn the function on, press the [SYNC STOP] button.



# **Adjusting the Style Volume**

Press the [STYLE] button to engage the style function.

Press the [FUNCTION] button.



2 Use the CATEGORY [★] and [▼] buttons to select the Style Volume item.



**3** Use the dial to set the style volume between 000 and 127.

# **Setting the Split Point**

The initial default split point is key number 54 (the F#2 key), but you can change it to another key using the procedure described below.



**3** Use the dial to set the split point to any key from 000 (C-2) through 127 (G8).



#### NOTE

- When you change the split point the auto-accompaniment split point also changes.
- The split point cannot be changed during a song lesson.
- The split voice sounds when the split-point key is played.

# Play a Style with Chords but No Rhythm (Stop Accompaniment)

When auto accompaniment is on (the ACMP ON icon is showing) and Synchro Start is off, you can play chords in the left-hand accompaniment range of the keyboard while the style is stopped and still hear the accompaniment chords. This is "Stop Accompaniment", and any of the chord fingerings recognized by the instrument can be used (page 24).

Press the [STYLE] button to engage the style function, then press the [ACMP ON/ OFF] button.





# **Playing Styles Using the Entire Keyboard**

In "Play Along with a Style" on page 20 we described a method of playing styles in which chords were detected only to the left of the keyboard split point. By making the settings described below, however, chord detection for style accompaniment occurs over the entire range of the keyboard, allowing for even more dynamic style performance. In this mode only chords played in the normal way (page 24) can be detected.



# **Loading Style Files**

This instrument features 150 internal styles, but other styles, such as those provided on the CD-ROM and others that can be obtained from the internet (only styles with the ".sty" suffix), can be loaded into style number 151 and used in the same way as the internal styles.

In order to use the style file load function, the file must already have been transferred from the computer to the instrument. The procedure for transferring files from a computer to the instrument is described on page 82 ("Transferring Data between the Computer and Instrument").

The procedure described below loads a style file that has already been transferred from a computer to the instrument into style number 151.

#### Press the [FUNCTION] button.

The currently selected function will appear in the display.



#### 2 Press the CATEGORY [★] and [¥] buttons as many times as necessary to select the style file load function "Sff Load".



After about 2 seconds the name of a loadable style file will appear in the display.

If multiple loadable style files have been transferred to the instrument, you can use the dial or the [+] and [-] buttons to select the other files in sequence.

### **3** Execute the load operation.

With the name of the style file you want to load shown in the display, press the number [0] button.



**4** A confirmation message for the load operation will appear. Press the [+/YES] button to actually load the file.



# **Chord Basics**

Two or more notes played together constitute a "chord".

The most basic chord type is the "triad" consisting of three notes: the root, third, and fifth degrees of the corresponding scale. A C major triad, for example, is made up of the notes C (the root), E (the third note of the C major scale), and G (the fifth note of the C major scale).

In the C major triad shown above, the lowest note is the "root" of the chord (this is the chord's "root position" ... using other chord notes for

the lowest note results in "inversions"). The root is the central sound of the chord, which supports and anchors the other chord notes.

The distance (interval) between adjacent notes of a triad in root position is either a major or minor third.



Minor third-three half steps (semitones)

The lowest interval in our root-position triad (between the root and the third) determines whether the triad is a major or minor chord, and we can shift the highest note up or down by a semitone to produce two additional chords, as shown below.



The basic characteristics of the chord sound remain intact even if we change the order of the notes to create different inversions. Successive chords in a chord progression can be smoothly connected, for example, by choosing the appropriate inversions (or chord "voicings").

#### Reading Chord Names

Chord names tell you just about everything you need to know about a chord (other than the inversion/voicing). The chord name tells you what the root of the chord is, whether it is a major, minor, or diminished chord, whether it requires a major or flatted seventh, what alterations or tensions it uses ... all at a glance.



#### • Some Chord Types (These are just some of the "Standard" chord types recognized by the DGX-220/YPG-225.)





#### ■Recognized Standard Chords.....

Chord Name/[Abbreviation]	Normal Voicing	Chord (C)	Display
Major [M]	1 - 3 - 5	С	С
Add ninth [(9)]	1 - 2 - 3 - 5	C <sup>(9)</sup>	C(9)
Sixth [6]	1 - (3) - 5 - 6	C6	C6
Sixth ninth [6(9)]	1 - 2 - 3 - (5) - 6	C <sub>6</sub> <sup>(9)</sup>	C6(9) *
Major seventh [M7]	1 - 3 - (5) - 7 or 1 - (3) - 5 - 7	См7	CM7
Major seventh ninth [M7(9)]	1 - 2 - 3 - (5) - 7	См7	CM7(9) *
Major seventh add sharp eleventh [M7(#11)]	1 - (2) - 3 - #4 - 5 - 7 or 1 - 2 - 3 - #4 - (5) - 7	C <sup>(#11)</sup> CM7	CM7(#11)
Flatted fifth [(\.5)]	1 - 3 - 5	C <sup>(b5)</sup>	C⊧2 ∗
Major seventh flatted fifth [M7 <sup>b</sup> 5]	1 - 3 - 5 - 7	C <sup>(b5)</sup> CM7	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	См7aug	CM7aug '
Minor [m]	1 -  >3 - 5	Cm	Cm
Minor add ninth [m(9)]	1 - 2 - \>3 - 5	C <sup>(9)</sup>	Cm(9)
Minor sixth [m6]	1 - 13 - 5 - 6	Cm6	Cm6
Minor seventh [m7]	1 -  >3 - (5) -  >7	Cm7	Cm7
Minor seventh ninth [m7(9)]	1 - 2 - \>3 - (5) - \>7	C <sup>(9)</sup> C <sup>m7</sup>	Cm7(9)
Minor seventh add eleventh [m7(11)]	1 - (2) - \\$3 - 4 - 5 - (\\$7)	C <sup>(11)</sup> C <sup>m7</sup>	Cm7(11) *
Minor major seventh [mM7]	1 -	CmM7	CmM7
Minor major seventh ninth [mM7(9)]	1 - 2 - \>3 - (5) - 7	(9) CmM7	CmM7(9)
Minor seventh flatted fifth [m7b5]	1 -  >3 -  >5 -  >7	C <sup>( 5)</sup> C <sup>m7</sup>	Cm7 <sup>♭5</sup>
Minor major seventh flatted fifth [mM7b5]	1 - \\$3 - \\$5 - 7	CmM7	CmM7⊧5
Diminished [dim]	1 -  >3 -  >5	Cdim	Cdim
Diminished seventh [dim7]	1 - 13 - 5 - 6	Cdim7	Cdim7
Seventh [7]	1 - 3 - (5) - ♭7 or 1 - (3) - 5 - ♭7	C7	C7
Seventh flatted ninth [7(b9)]	1 - 62 - 3 - (5) - 67	C <sup>( &gt;9)</sup>	C7(♭9)
Seventh add flatted thirteenth [7(b13)]	1 - 3 - 5 - 6 - 7	C <sup>(b13)</sup>	C7(♭13)
Seventh ninth [7(9)]	1 - 2 - 3 - (5) - 1-7	C <sup>(9)</sup>	C7(9)
Seventh add sharp eleventh [7(#11)]	1 - (2) - 3 - #4 - 5 - ♭7 or 1 - 2 - 3 - #4 - (5) - ♭7	C <sup>(#11)</sup>	C7(#11)
Seventh add thirteenth [7(13)]	1 - 3 - (5) - 6 - 147	C <sup>(13)</sup>	C7(13)
Seventh sharp ninth [7(#9)]	1 - #2 - 3 - (5) - ♭7	C <sup>(#9)</sup>	C7(#9)
Seventh flatted fifth [765]	1 - 3 - \>5 - \>7	C7♭5	C7⊧5 *

\* These chords are not shown in the Dictionary function.

1 - 3 - #5 - 17

1 - 4 - (5) - 97

1 - 2 - 5

#### NOTE

Notes in parentheses can be omitted.

Seventh suspended fourth [7sus4]

One plus two plus five [1+2+5]

Seventh augmented [7aug]

- · Playing 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), 1+2+5.

#### NOTE

C7aug

C7sus4

C1+2+5

• Inversion of the 7sus4 and m7(11) chords are not recognized if the notes shown in parentheses are omitted.

C7aug

C7sus4 C \*

- The auto accompaniment 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.

# **Looking Up Chords Using the Chord Dictionary**

The Dictionary function is essentially a built-in "chord book" that shows you the individual notes of chords. It is ideal when you know the name of a certain chord and want to quickly learn how to play it.

Press and hold the LESSON [START] button for longer than a second.



2 As an example, we'll learn how to play a GM7 (G major seventh) chord. Press the "G" key in the section of the keyboard labeled "ROOT". (The note doesn't sound.) The root note you set is shown in the display.





**3** Press the "M7" (major seventh) key in the section of the keyboard labeled "CHORD TYPE". (The note doesn't sound.) The notes you should play for the specified chord (root note and chord type) are shown in the display, both as notation and in the keyboard diagram.





Individual notes of chord (keyboard)

To call up possible inversions of the chord, press the [+]/[-] buttons.

#### NOTE

 About major chords: Simple major chords are usually indicated only by the root note. For example, "C" refers to C major. However, when specifying major chords here, make sure to select "M" (major) after pressing the root note.

**4** Try playing a chord in the auto accompaniment section of the keyboard, checking the indications in the display. When you've played the chord properly, a bell sound signals your success and the chord name in the display flash.



# **Song Volume**

Press the [FUNCTION] button.



2 Use the CATEGORY [★] and [▼] buttons to select the Song Volume item.



**3** Use the dial to set the song volume between 000 and 127.

NOTE || | • Song volume can be adjusted while a song is selected.

# **A-B Repeat**

You can specify a section of a song—"A" is the start point and "B" is the end point—for repeat playback.



Play the song (page 25) and press the [A-B REPEAT] button at the beginning of the section you want to repeat (the "A" point).



**2** Press the [A-B REPEAT] button a second time at the end of the section you want to repeat (the "B" point).



# **3** The specified A-B section of the song will now play repeatedly.

You can stop repeat playback at any time by pressing the [A-B REPEAT] button.

#### NOTE

- The repeat start and end points can be specified in one-measure increments.
- The current measure number is shown in the display during playback.
- If you want to set the start point "A" at the very beginning of the song press the [A-B REPEAT] button before starting playback of the song.

# **Muting Independent Song Parts**

Each "track" of a song plays a different part of the song—melody, percussion, accompaniment, etc. You can mute individual tracks and play the muted part on the keyboard yourself, or simply mute tracks other than the ones you want to listen to. Use the SONG MEMORY [1]–[5] and [A] buttons to mute or un-mute the corresponding tracks. The track number in the display disappears when that track is muted. Refer to page 45 for information about the song track configuration.

# **Change the Melody Voice**

You can change a song's melody voice to any other voice you prefer.

NOTE | • You cannot change the melody voice of a user song.

Select the song and play it.

**2** Rotate the dial to select the voice you want to listen to after pressing the [VOICE] button.



**3** Press the [VOICE] button for longer than a second.

"SONG MELODY VOICE" appears in the display for a few seconds, indicating that the voice selected in step #2 has replaced the song's original melody voice.






This instrument has a Registration Memory feature that lets you save your favorite settings for easy recall whenever they're needed. Up to 16 complete setups can be saved (8 banks of two setups each).



Up to 16 presets (eight banks of two each) can be memorized.

# Saving to the Registration Memory

- Set the panel controls as required select a voice, accompaniment style, etc.
- **2** Press the [MEMORY/BANK] button. A bank number will appear in the display when you release the button.



Bank number

**3** Use the dial or the [1]–[8] number buttons to select a bank number from 1 to 8.



NOTE

 Data cannot be saved to the registration memory during song playback. **4** Press the REGIST MEMORY [1] or [2] button while holding the [MEMORY/ BANK] button to store the current panel settings to the specified registration memory.



## NOTE

 If you select a Registration Memory number that already contains data, the previous data is deleted and overwritten by the new data.

## 

• Do not turn off the power while saving settings to the registration memory, otherwise the data may be damaged or lost.

# **Recalling a Registration Memory**

Press the [MEMORY/BANK] button. A bank number will appear in the display when you release the button.



# **2** Use the dial or the [1]–[8] number buttons to select bank you want to recall.



**3** Press the REGIST MEMORY button, [1] or [2], containing the settings you want to recall. The recalled REGIST MEMORY number appears in the display for a few seconds. The panel controls will be instantly set accordingly.



## • Settings That Can be Saved to the Registration Memory

## Style settings\*

Style number, Auto Accompaniment ON/OFF, Split Point, Style settings (Main A/B), Style Volume, Tempo, Chord Fingering

## Voice settings

Main Voice setting (Voice number, Volume, Octave, Pan, Reverb Level, Chorus Level), Dual Voice settings (Dual ON/OFF, Voice number, Volume, Octave, Pan, Reverb Level, Chorus Level), Split Voice settings (Split ON/OFF, Voice number, Volume, Octave, Pan, Reverb Level, Chorus Level)

## Effect settings

Reverb Type, Chorus Type, Panel Sustain ON/OFF,

- Harmony settings Harmony ON/OFF, Harmony Type, Harmony Volume
- Other settings Transpose, Pitch Bend Range
- \* Style settings are not available for Registration Memory when using the Song features.



The "Functions" provide access to a range of detailed instrument parameters for tuning, setting the split point, and adjusting the voices and effects. Take a look at the function list starting on the opposite page. There are 47 function parameters in all. When you locate a function you want to set up, simply select the function's display name (shown to the right of the function name in the list) and adjust as required.

# **Selecting and Setting Functions**

Find the function you want to set in the list that begins on page 76.

# **2** Press the [FUNCTION] button.



# **3** Select a function.

Press the CATEGORY  $[\bigstar]$  and  $[\checkmark]$  buttons as many times as necessary until the function's display name appears in the display.



# **4** Use the dial, the [+] and [-] buttons, or the [0]–[9] number buttons to set the selected function as required.

The [+] and [-] buttons are used to make ON/ OFF type settings: [+] = ON, [-] = OFF. In some cases the [+] button will initiate execution of the selected function, and the [-] will cancel the selection.



Function settings are stored in memory as soon as they are changed. To restore all initial factor default settings perform the "Backup Clear" procedure described in the "Initialization" section on page 49.

# • Function Setting List

Setting	Item title	Range/Settings	Description
Style Volume	StyleVol	000–127	Determines the volume of the Style.
Song Volume	SongVol	000–127	Determines the volume of the Song.
Transpose	Transpos	-12–12	Determines the pitch of the instrument by semitone increments.
Tuning	Tuning	-100–100	Sets the pitch of the instrument's sound in 1-cent increments.
Pitch Bend Range	PBRange	01–12	Sets the pitch bend range in semitone increments.
Split Point	SplitPnt	000–127 (C-2–G8)	Determines the highest key for the Split voice and sets the Split "point"- in other words, the key that separates the Split (lower) and Main (upper) voices. The Split Point setting and Accompaniment Split Point setting are automatically set to the same value.
Touch Sensitivity	TouchSns	1(Soft), 2(Medium), 3(Hard), 4(Off)	Determines the sensitivity of the feature.
Fingering Chord	ChdFing	Multi(1), FullKbd(2)	Sets the chord detection mode. In the Multi Finger mode both standard chords and easy chords played to the left of the split point are detected. In the Full Keyboard mode standard chords played anywhere on the keyboard will be detected, and the notes played will be sound as well.
Main Voice Volume	M.Volume	000–127	Determines the volume of the Main voice.
Main Voice Octave	M.Octave	-2-+2	Determines the octave range for the Main voice.
Main Voice Pan	M.Pan	000 (left)– 64 (center)– 127 (right)	Determines the pan position of the Main voice in the stereo image. The value "0" results in the sound being panned full left; the value "127" results in the sound being panned full right.
Main Voice Reverb Level	M.Reverb	000–127	Determines how much of the Main voice's signal is sent to the Reverb effect.
Main Voice Chorus Level	M.Chorus	000–127	Determines how much of the Main voice's signal is sent to the Chorus effect.
Dual Voice	D.Voice	001–489	Selects the Dual voice.
Dual Voice Volume	D.Volume	000–127	Determines the volume of the Dual voice.
Dual Voice Octave	D.Octave	-2-+2	Determines the octave range for the Dual voice.
Dual Voice Pan	D.Pan	000 (left)– 64 (center)– 127 (right)	Determines the pan position of the Dual voice in the stereo image. The value "0" results in the sound being panned full left; the value "127" results in the sound being panned full right.
Dual Voice Reverb Level	D.Reverb	000–127	Determines how much of the Dual voice's signal is sent to the Reverb effect.
Dual Voice Chorus Level	D.Chorus	000–127	Determines how much of the Dual voice's signal is sent to the Chorus effect.
Split Voice	S.Voice	001–489	Selects the Split voice.
Split Voice Volume	S.Volume	000–127	Determines the volume of the Split voice.
Split Voice Octave	S.Octave	-2-+2	Determines the octave range for the Split voice.
Split Voice Pan	S.Pan	000 (left)– 64 (center)– 127 (right)	Determines the pan position of the Split voice in the stereo image. The value "0" results in the sound being panned full left; the value "127" results in the sound being panned full right.
Split Voice Reverb Level	S.Reverb	000–127	Determines how much of the Split voice's signal is sent to the Reverb effect.
Split Voice Chorus Level	S.Chorus	000–127	Determines how much of the Split voice's signal is sent to the Chorus effect.

Setting	Item title	Range/Settings	Description
Reverb Type	Reverb	01–10	Determines the Reverb type, including off (10). (See the list on page 109)
Chorus Type	Chorus	01–05	Determines the Chorus type, including off (05). (See the list on page 109)
Panel Sustain	Sustain	ON/OFF	Determines whether or not panel sustain is always applied to the MAIN/ DUAL voices. Panel sustain is applied continuously when ON, or not applied when OFF. (page 59)
Master EQ Type	MasterEQ	Speaker1, Speaker2, Headphone, Line Out1, Line Out2	Sets the equalizer applied to the speaker output for optimum sound in different listening situations.
Harmony Type	HarmType	01–26	Determines the Harmony type. (See the list on page 109)
Harmony Volume	HarmVol	000–127	Determines the volume of the Harmony effect.
Performance assistant technology Type	PAT Type	CHORD(1), CHD/FREE(2):	Determines the performance assistant technology type.
Style File Load	Sff Load	001–nnn	Loads a Style file.
PC mode	PC mode	PC1/PC2/OFF	Optimizes the MIDI settings when you connect to a computer (page 81).
Local On/Off	Local	ON/OFF	Determines whether the instrument's keyboard controls the internal tone generator (ON) or not (OFF). (page 80)
External Clock	ExtClock	ON/OFF	Determines whether the instrument synchronizes to the internal clock (OFF) or an external clock (ON). (page 80)
Keyboard Out	KbdOut	ON/OFF	Determines whether keyboard performance data of the instrument is transmitted (ON) or not (OFF).
Style Out	StyleOut	ON/OFF	Determines whether Style data is transmitted (ON) via USB or not (OFF) during Style playback.
Song Out	SongOut	ON/OFF	Determines whether Song data is transmitted (ON) via USB or not (OFF) during Song playback.
Initial Send	InitSend	YES/NO	Lets you send the data of the panel settings to a computer. Press [+] to send, or press [-] to cancel.
Time Signature Numerator	TimesigN	00–60	Determines the time signature of the Metronome.
Time Signature Denominator	Timesi9D	Half note, Quarter note, Eighth note, Sixteenth note	Sets the length of each metronome beat.
Metronome Volume	MtrVol	000–127	Determines the volume of the Metronome.
Lesson Track (R)	R-Part	GuideTrack 1–16	Determines the guide track number for your right hand lesson. The setting is only effective for songs in SMF format 0 transferred from a computer.
Lesson Track (L)	L-Part	GuideTrack 1–16	Determines the guide track number for your left hand lesson. The setting is only effective for songs in SMF format 0 transferred from a computer.
Grade	Grade	ON/OFF	Determines whether the Grade function is on or off.
Demo Cancel	D-Cancel	ON/OFF	Determines whether Demo cancel is enabled or not. When this is set to ON, the Demo Song will not play, even if the [DEMO] button is pressed.

\* All these settings can be conveniently reset to their initial default values by pressing the [+] and [-] buttons simultaneously. (The exception to this is Initial Send, which is an operation, not a setting.)



# **Connecting to a Computer**

Nearly all of the electronic musical instruments made today—particularly synthesizers, sequencers and computer music related devices—use MIDI. MIDI is a worldwide standard that allows these devices to send and receive performance and setting data. Naturally, this instrument lets you save or send your keyboard performance as MIDI data, as well as the songs, styles and panel settings.

The potential MIDI holds for your live performances and music creation/production is enormous—simply by connecting this instrument to a computer and transmitting MIDI data. In this section, you'll learn the basics of MIDI and the specific MIDI functions provided by this instrument.

# What is 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 a grand 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



## • 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 instrument. 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)	1 (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)

Your keyboard performance and all panel operations of this instrument are processed as MIDI data. The songs, auto accompaniment (styles), and User songs are also made up of MIDI data. MIDI is an acronym that stands for Musical Instrument Digital Interface and it allows different musical instruments and devices to instantly communicate with each other, via digital data. The MIDI standard is used all over the world and was designed to transmit performance data between electronic musical instruments (or computers). Thanks to MIDI, you can control one instrument from another and transmit performance data between the devices-taking your creative and performance potential to even higher levels.

MIDI messages can be divided into two groups: Channel messages and System messages.

# Channel Messages

This instrument is capable of handling 16 MIDI channels simultaneously—meaning it can play up to sixteen different instruments at the same time. Channel messages transmit information such as Note ON/OFF, Program Change, for each of the 16 channels.

Message Name	Instrument Operation/Panel Setting
Note ON/OFF	Performance data of the keyboard (contains note number and velocity data)
Program Change	Instrument selection (including bank select MSB/LSB, if necessary)
Control Change	Instrument settings (volume, pan, 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	Instrument Operation/Panel Setting
Exclusive Message	Reverb/chorus settings, etc.
Realtime Messages	Start/stop operation

# **Connecting a Personal Computer**

The following functions become available when this instrument is connected to a computer.

- Performance data can be transferred between the instrument and the computer (page 80).
- Files can be transferred between the instrument and the computer (page 82).

The connection procedure is as follows:

Install the USB-MIDI driver on your computer.

The USB–MIDI driver is included on the CD-ROM. Installation of the USB MIDI driver is described on page 85.

# **2** Connect the USB terminal of the computer to the USB terminal on the instrument using a standard USB cable (USB cable sold separately).

The supplied CD-ROM also includes a Musicsoft Downloader application that allows you to transfer song files from your computer to the instrument's flash memory. For instructions about how to install Musicsoft Downloader and how to transfer song files, see page 83.



## USB Precautions

Please observe the following precautions when connecting the instrument to a computer via a USB cable.

Failure to do so can cause the instrument and/or the computer to hang up (freeze), possibly causing corruption or loss of data.

If the instrument or computer does hang up, turn the power to both devices off and then on again, and restart the computer.

## **A**CAUTION

- Wake the computer from a sleep/suspended/standby mode before connecting the USB cable.
- Connect the USB cable to the instrument and computer before turning power to the instrument on.
- Check the following points before turning the instrument's power on or off, and before plugging or unplugging the USB cable.
  - Quit all applications.
  - Make sure that no data transfer is in progress (data is transferred whenever you play on the keyboard or play a song).
- Allow at least 6 seconds between turning the instrument's power on and off, and between plugging and unplugging the USB cable.
- Directly connect the instrument to the computer using a single USB cable. Do not use a USB hub.

## NOTE

- The Musicsoft Downloader application may not be able to access the instrument in the following cases:
  - During style playback.
  - During song playback.

# **Transferring Performance Data to and from a Computer**

By connecting the instrument to a computer, the instrument's performance data can be used on the computer, and performance data from the computer can be played on the instrument.

# • When the instrument is connected with computer, it transmits/receives performance data.



# MIDI settings .....

These settings pertain to performance data transmission and reception.

Item	Range/Settings	Description
Local	ON/OFF	Local control determines whether or not notes played on the instrument are sounded by its internal tone generator system: the internal tone generator is active when local control is on, and inactive when local control is off.
External Clock	ON/OFF	These settings determine whether the instrument is synchronized to its own internal clock (OFF), or to a clock signal from an external device (ON).
Keyboard Out	ON/OFF	These settings determine whether keyboard performance data of the instrument is transmitted (ON) or not (OFF).
Style Out	ON/OFF	These settings determine whether Style data is transmitted (ON) or not (OFF) during Style playback.
Song Out	ON/OFF	These settings determine whether Song data is transmitted (ON) or not (OFF) during Song playback.

## 

 If you can't get any sound out of the instrument, this may be the most likely cause.

## 

 If External Clock is ON and no clock signal is being received from an external device, the song, style, and metronome functions will not start.

# **Press the [FUNCTION] button.**



2 Use the CATEGORY [★] and [▼] buttons to select the item you want to change its value.



**3** Use the dial to select ON or OFF.

# ■PC Mode .....

A number of MIDI settings need to be made when you want to transfer performance data between the computer and the instrument. The PC Mode item can conveniently make multiple settings for you in one operation. Three settings are available: PC1, PC2, and OFF.

This setting is not necessary when transferring song or backup files between the computer and the instrument.

\* Set the PC mode to PC2 when using Digital Music Notebook.

	PC1	PC2*	OFF
Local	OFF	OFF	ON
External Clock	ON	OFF	OFF
Song Out	OFF	OFF	OFF
Style Out	OFF	OFF	OFF
Keyboard Out	OFF	ON	ON

Press and hold the [DEMO] button for longer than a second so that the PC Mode item appears.



# **2** Use the dial to select PC1, PC2, or OFF.

### NOTE

 When the PC2 setting is selected the instrument's style, song, demo, song recording, and lesson features cannot be used.

### NOTE

 You can also access the PC Mode item by first pressing the [FUNC-TION] button and then using the CATEGORY [☆] and [♥] buttons to locate it (page 75).

# **Remote Control of MIDI Devices**

You can also use this instrument as a remote control device for the Digital Music Notebook application on your computer (via the USB connection)—controlling playback, stop and transport functions from the panel.

# 

To use the remote control functions, simultaneously hold down the lowest two keys on the keyboard (E0 and F#0) and press the appropriate key (shown below).



NOTE

Remote control of MIDI devices will function independently of the PC2 mode.

# **Initial Send**

This function lets you send the panel setup data to a computer. Before you record performance data to a sequencer application running on your computer, it is a good idea to first send and record the panel setup data before the actual performance data.

# Press the [FUNCTION] button.



2 Use the CATEGORY [★] and [▼] buttons to select the Initial Send item.



**3** Press [+/YES] to send, or press [-/NO] to cancel.



# **Transferring Data between the Computer and Instrument**

MIDI songs residing on a computer, as well as the 70 MIDI songs and 5 Style files provided on the CD-ROM, can be transferred to the instrument. Backup files can also be transferred from the instrument to the computer and back. Songs and styles transferred to the instrument can be used with the instrument's lesson and other functions. In order to transfer songs between your computer and the instrument you will need to install the Musicsoft Downloader application and the USB-MIDI Driver included on the Accessory CD-ROM on your computer. Refer to the Accessory CD-ROM Installation Guide on page 85 for installation details.

# • Data that can be transferred from a computer to this instrument.

- Song Capacity (max.): Flash memory 99 songs (Song 036–)
- Data Capacity: Flash memory 373 kb
- Data Format: SMF format 0, style file (extension: .sty), Backup File (06PG76.BUP)

## • What is SMF (Standard MIDI File)?

The SMF (Standard MIDI File) format is one of the most common and widely compatible sequence formats used for storing sequence data. There are two variations: Format 0 and Format 1. A large number of MIDI devices are compatible with SMF Format 0, and most commercially available MIDI sequence data is provided in SMF Format 0.

# With the Musicsoft Downloader You Can. •••••••

- Transfer MIDI songs you have downloaded from the Internet or created on your computer from the computer to the instrument's flash memory.
  - $\Rightarrow$  refer to the procedure described on page 83.

The procedure for transferring songs included on the Accessory CD-ROM from your computer to the instrument is given as an example.

- Backup files can be transferred from the instrument to a computer and back.
  - ⇒ refer to the procedure described on page 84.

Use the Musicsoft Downloader application with Internet Explorer 5.5 or higher.

# ■Use Musicsoft Downloader To Transfer Songs From the Accessory CD-ROM To the Instrument's flash memory•••••

NOTE | • If a song or style is being played, stop playback before proceeding.

- Install the Musicsoft Downloader and USB MIDI driver to your computer, then connect the computer and the instrument (page 87).
- **2** Insert the included CD-ROM into the CD-ROM drive.

A start window will appear automatically.

**3** Double-click the Musicsoft Downloader shortcut icon that is created on the desktop.

This will launch the Musicsoft Downloader application and the main window will appear.

NOTE :
The instrument cannot be operated while the Musicsoft Downloader is running.

# **4** Click the "Add File" button and the Add File window will appear.

**5** Click the button to the right of "Look in" and select the CD-ROM drive from the dropdown menu that appears. Double-click the "SongData" Folder on the window. Select the file you want to transfer to the instrument, and click "Open".



**6** A copy of the selected MIDI song file will appear in the "List of files stored temporarily" at the top of the window.

The memory medium will also be displayed at the bottom of the window to specify the destination for the transfer. Click the "Electronic Musical Instruments", and then "Flash memory".

			1	
List of files stored temporarily		Add File	]	
File Name	Song Name		Туре	Siz
3 001Nuter.mid			MIDI Sequence	11 KE
4	Move	Move		
: Available Space: 373 KB	File Name	Song Name	Туре	Siz
Flash Memory     System Drive     Local Disk (C:)     Local Disk (E:)     X7225A0 (F:)     Local Disk (G:)				

Click the "Electronic Musical Instruments", and then "Flash Memory"

After selecting the file in the "List of files stored temporarily", click the downward [Move] button and a confirmation message will appear. Click [OK] and the song will be transferred from the "List of files stored temporarily" to the instrument's memory.

# **8** Close the window to end the Musicsoft Downloader.

NOTE ↓
End the Musicsoft Downloader to playback the song transferred from your computer.

# 9 To playback a song stored in flash memory, press the [SONG] button. Use the dial to select the song you want to play, then press the [START/STOP] button to start playback.

Style files (files with the ".STY" extension) can be transferred to Flash memory using the same procedure as described above. Style files transferred to the Flash Memory can be loaded into style number 151 and then played (page 67).

## 

 Do not unplug the USB cable during a data transfer. Not only will the data not be transferred and saved, but operation of the memory media may become unstable and its contents may disappear completely when the power is turned on or off.

## 

- Store data can be lost due to equipment malfunction or improper operation. For safety we recommend that you keep a copy of all important data stored on your computer.
- We recommend that you use a power adaptor rather than batteries when transferring data. The data can be corrupted if the batteries fail during the transfer.

## • To Use transferred Songs For Lessons...

In order to use songs (only SMF format 0) transferred from a computer for lessons it is necessary to specify which channels are to be played back as the right-hand and left-hand parts.

- **1** Press the [SONG] button and select the song (036–) residing in flash memory for which you want to set the guide track.
- **2** Press the [FUNCTION] button.
- 3 Use the CATEGORY [▲] and [▼] buttons to select the R-Part or L-Part item.
- **4** Use the dial to select the channel you want to play back as the specified right- or left-hand part.

We recommend that you select channel 1 for the right-hand part and channel 2 for the left-hand part.

# Transfer a backup file from the instrument to a computer • • •

You can use the Musicsoft Downloader to transfer "Backup Files" (page 49) including the five User Songs stored on the instrument, to a computer. If you click "Electronic Musical Instruments" in the Musicsoft Downloader display, and then "System Drive", a file named "06PG76.BUP" will appear in the lower right corner of the Musicsoft Downloader display. This is the backup file. For details about how to transmit backup file using the Musicsoft Downloader application, refer to the Online help in the application.

### NOTE

· Preset Song data cannot be transmitted from the instrument.

## **A**CAUTION

 The backup data, including the five User Songs is transmitted/ received as a single file. As a result, all backup data will be overwritten every time you transmit or receive. Keep this in mind when transferring data.

### **A**CAUTION

 Do not rename the backup file on the computer. If you do so, it will not be recognized when transferred to the instrument.



# SPECIAL NOTICES

- This CD-ROM is copy-protected. Yamaha makes no representations or warranties with regard to any problems while attempting to copy the CD-ROM or software and cannot be held responsible for the results of attempts to copy the data.
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- This disk is a CD-ROM. Do not attempt to play the disk on an audio CD player. Doing so may result in irreparable damage to your audio CD player.
- Future upgrades of application and system software and any changes in specifications and functions will be announced separately.
- The screen displays as illustrated in this owner's manual are for instructional purposes, and may appear somewhat different from the screens which appear on your computer.

# **Important Notices about the CD-ROM**

## Data Types

This CD-ROM includes application software. Please refer to page 87 for software installation instructions.

## 

 Do not attempt to play this CD-ROM on an audio CD player. The result high-volume noise can potentially cause hearing damage or damage your CD player and speakers.

# • Operating System (OS)

The applications in this CD-ROM are provided in versions for Windows operating systems.

# **CD-ROM Contents**



	Folder Name	Application / Data Name	Contents
0	MSD_	Musicsoft Downloader	This application can be used to download MIDI song data from the Internet and transfer it from the computer to the instrument's memory.
2	DMN_FlashDemo	Flash Demo	Digital Music Notebook is an educational content that lets you enjoy music while learning. Full motion demo software which introduces all features of the Digital Music Notebook.
	DMN_DemoSong	Demo Song	You can experience Digital Music Notebook functions with the demo song. You need to download and install Digital Music Notebook on your computer prior to using the demo song.
8	SongBook	Song Book	Includes score data for the 30 internal songs provided on the instrument as well as 70 MIDI songs provided on the CD-ROM. The exceptions are songs 1–11, 16, 20 and song 30 which is copyrighted. The scores for songs 9–11 are provided in this manual beginning on page 94.
4		USB-MIDI Driver (Windows 98/Me)	This driver software is necessary to connect MIDI devices to your computer via
9	USBdrv2k	USB-MIDI Driver (Windows 2000/XP)	USB.
	SongData	MIDI 70 songs	These songs can be transferred to the instrument and played or used with the instrument's functions.
	StyleData	5 style files	These styles can be transferred to the instrument and played or used with the instrument's functions.

In order to view PDF scores, you will need to install Adobe Reader in your computer.

You can download the Adobe Reader. Please check the following URL: http://www.adobe.com/

# ■Using the CD-ROM •••••••

Please read the Software License Agreement on page 91 before opening the CD-ROM package.

- Check the system requirements to make sure that the software will run on your computer.
- **2** Insert the included CD-ROM into the CD-ROM drive.

The start window should appear automatically.

# **3** Install the USB MIDI driver to the computer.

Refer to "Installing the USB-MIDI Driver" on page 87 for installation and setup instructions.

# **4** Connect the instrument to the computer.

The connection procedure is described on page 79.

# **5** Install the software.

Musicsoft Downloader: See page 89.

# **6** Launch the software.

For further software operation refer to the online help supplied with the software.

Refer to the "Troubleshooting" on page 90 when you have trouble with installing the driver.

# **System Requirements**

Application/Data	OS	CPU	Memory	Hard Disk	Display
Musicsoft Downloader	Windows 98SE/Me/2000/ XP Home Edition/ XP Professional	233 MHz or higher; Intel® Pentium®/Celeron® processor family	64 MB or more (256 MB or more is recommended)	at least 128 MB of free space (at least 512 MB of free space is recommended)	800 x 600 HighColor (16-bit)
USB Driver for Windows 98/Me	Windows 98/Me	166 MHz or higher; Intel® Pentium®/Celeron®	32 MB or more (64 MB or more is	at least 2 MB of free	
USB Driver for Windows 2000/XP	Windows 2000/XP Home Edition/XP Professional	processor family	recommended)	space	
Digital Music Notebook	Windows <sup>®</sup> XP Professional Edition, SP1a more Windows <sup>®</sup> XP Home	400MHz or higher; Intel® Pentium®/Celeron® Processor family (1GHz or more is recommended)	128 MB or more (256 MB or more is recommended)	at least 50 MB of	1024 x 768
Digital Music Notebook (Requirements for playing content with video included.)	Edition, SP1a more Windows 2000 Professional, SP4 more	1GHz or higher; Intel® Pentium®/Celeron® Processor family (1.4GHz or more is recommended)	256 MB or more	free space	HighColor (16-bit)

# **Software Installation**

## • Uninstall (Removing the Software)

Installed software can be removed from your computer as follows:

From the Windows Start menu select Start  $\rightarrow$ Settings  $\rightarrow$  Control panel  $\rightarrow$  Add or Remove Applications  $\rightarrow$  Install and Uninstall. Select the item you want to remove and click [Add or Remove]. Follow the on-screen instructions to remove the selected software.

## NOTE

• The actual names of the menu items and buttons will depend on the OS version you are using.

# ■Installing the USB-MIDI Driver...

In order to be able to communicate with and use MIDI devices connected to your computer, the appropriate driver software must be properly installed on your computer.

The USB-MIDI driver allows sequence software and similar applications on your computer to transmit and receive MIDI data to and from MIDI devices via a USB cable.



- Windows 98/Me installation → page 88.
- Windows 2000 installation → page 88.
- Windows XP installation  $\rightarrow$  page 89.

Check the drive name of the CD-ROM drive you will be using (D:, E:, Q: etc.) The drive name is displayed beside the CD-ROM icon in your "My Computer" folder. The root directory of the CD-ROM drive will be D:\, E:\, or Q:\, respectively.

## Installing the driver on Windows 98/Me

## Start the computer.

- **2** Insert the supplied CD-ROM into the CD-ROM drive. A start window will appear automatically.
- **3** First, make sure the POWER switch on the instrument is set to OFF, then use a USB cable to connect the USB terminal of the computer to the USB connector of the instrument. When the instrument is turned on, the computer automatically displays the "Add New Hardware Wizard. Otherwise, refer to "Troubleshooting" in the "Accessory CD-ROM Installation Guide" section of the Owner's Manual. For Windows Me users, check the radio button to the left of "Automatic search for a better driver (Recommended)" and click [Next]. The system automatically starts searching and installing the driver. Proceed to Step 8. If the system does not detect the driver, select "Specify the location of the driver (Advanced)" and specify the CD-ROM drive's root directory to install the driver and click [Next]. Execute the installation by following the onscreen instructions and proceed to Step 8.

## NOTE

• If you are using Windows Me, skip Step 4–7.

## **4** Click [Next].

The window enables you to select the search method.

- 5 Check the radio button to the left of "Search for the best driver for your device. (Recommended)". Click [Next]. The window enables you to select a location in which to install the driver.
- Check the "Specify a location" box, click "Browse..", then specify the root directory of the CD-ROM drive and continue the installation. The CD-ROM drive letter may vary depending on your computer's configuration.

When the system detects the driver on the CD-ROM and is ready for installation, it is shown as a message on the screen. Make sure that the "YAMAHA USB MIDI Driver" is listed, and click [Next]. The system starts the installation.

8 When installation is complete, a message indicating so appears. Click [Finish]. The driver has been installed.

NOTE

• Some computers may take about ten seconds to show this screen after the installation is complete.

## Installing the driver on Windows 2000

- Start the computer and use the "Administrator" account to log into Windows 2000.
- 2 Select [My Computer] → [Control Panel] → [System] → [Hardware] → [Driver Signing] → [File Signature Verification], and check the radio button to the left of "Ignore—Install all files, regardless of file signature" and click [OK].
- **3** Insert the supplied CD-ROM into the CD-ROM drive. A start window will appear automatically.
- First, make sure the POWER switch on the MIDI device is set to OFF, then use a USB cable to connect the MIDI device to the computer. After making the connections, turn on the power of the MIDI device. The system automatically launches the Found New Hardware Wizard.

Otherwise, refer to "Troubleshooting" in the "Accessory CD-ROM Installation Guide" section of the Owner's Manual. Click [Next]. (Some computers may take a while to display the Wizard window.)

**5** Select the radio button for "Search for a suitable driver for my device [recommended]", then click [Next].

NOTE

 If the Wizard panel informs you that "The software you are about to install does not contain a Microsoft digital signature", click [Yes].

6 Check the "CD-ROM drives" check box, deselect all other check boxes, then click [Next].

NOTE

 If the system prompts you to insert the Windows CD-ROM during detection of the drivers, point to the "USBdrv2k\_" folder (e.g., D:\USBdrv2k\_) and continue the installation.

- **7** Deselect the "Install one of the other drivers", then click [Next].
- 8 When the installation is complete, the Wizard displays "Completing the Found New Hardware Wizard".

Click [Finish]. (Some computers may take a while to display the Wizard window.)

## **9** Restart the computer.

The USB-MIDI driver installation is complete.

## Installing the driver on Windows XP

- **1** Start the computer and use the "Administrator" account to log into Windows.
- 2 Select [Start] → [Control Panel]. If the control panel appears as "Pick a category", click "Switch to Classic View" in the upper left of the window. All control panels and icons will be displayed.
- 3 Go to [System] → [Hardware] → [Driver Signing Options] and check the radio button to the left of "Ignore" and click [OK].
- 4 Click the [OK] button to close System Properties, and then click "X" in the upper right of the window to close the Control Panel.
- **5** Insert the supplied CD-ROM into the CD-ROM drive. A start window will appear automatically.
- **6** First, make sure the POWER switch on the MIDI device is set to OFF, then use a USB cable to connect the MIDI device to the computer. After making the connections, turn on the power of the MIDI device. The system launches the Found New Hardware Wizard automatically. Otherwise, refer to "Troubleshooting" in the "Accessory CD-ROM Installation Guide" section of the Owner's Manual. If the system displays "Found New Hardware" in the lower right corner, wait until Wizard windows is displayed. (Some computers may take a while to display the window.) If the Wizard window prompts you to specify whether or not to connect to Windows Update, select the radio button for "No, not this time", then click [Next].

## Select the radio button for "Install the software automatically (recommended)", then click [Next].

NOTE

 If during the installation the system displays "...has not passed Windows Logo testing to verify its compatibility with Windows XP", click [Continue Anyway].

# 8 When the installation is complete, the Wizard displays "Completing the Found New Hardware Wizard".

Click [Finish]. (Some computers may take a while to display the Wizard window.)

## **9** Restart the computer.

If the system displays "Found New Hardware" in the lower right corner, wait until the Wizard window is displayed. (Some computers may take a while to display the Wizard window.)

The USB-MIDI driver installation is complete.

# Installing the Musicsoft Downloader and Digital Music Notebook Applications...

### IMPORTANT

- You will need to log in with administrator (root) privileges in order to install Musicsoft Downloader on a computer running Windows 2000 or XP.
- You will need to log in with administrator (root) privileges in order to install Digital Music Notebook on a computer running Windows 2000 or XP.

### IMPORTANT

• When installing the Digital Music Notebook, make sure that Internet Explorer 6.0 (with SP1) or higher is installed to your computer.

### **IMPORTANT**

- Credit card settlement is required to purchase Digital Music Notebook content. Credit card processing may not be possible for some areas, so please check with your local authorities to make sure that your credit card can be used.
- Insert the Accessory CD-ROM into your computer's CD-ROM drive. The start window will appear automatically showing software applications.

### NOTE

 If the start window does not appear automatically, double click your "My Computer" folder to open it. Right-click the CD-ROM icon and select "Open" from the pop-up menu. Double click "Start.exe" and proceed to step 2, below.

- **2** Click [Musicsoft Downloader] or [Digital Music Notebook].
- **3** Click the [install] button for Musicsoft downloader, or [Digital Music Notebook Download] button for Digital Music Notebook, and follow the on-screen instructions to install the software.

For Digital Music Notebook operating instructions see the help menu: launch the Digital Music Notebook application and click "Help".

For Musicsoft Downloader operating instructions see the Help menu: launch the Musicsoft Downloader application and click "Help".

\* You can obtain the latest version of the Musicsoft Downloader at the following Internet URL.

## http://music.yamaha.com/download/

## **IMPORTANT**

 Only Musicsoft Downloader can be used to transfer files between this instrument and a computer. No other file transfer application can be used.

# ■Troubleshooting

## The driver cannot be installed.

- Is the USB cable connected correctly? Check the USB cable connection. Disconnect the USB cable, then connect it again.
- Is the USB function enabled on your computer?

When you connect the instrument to the computer for the first time, if the "Add New Hardware Wizard" does not appear, the USB function on the computer may be disabled. Perform the following steps.

 Select [Control Panel] → [System] →
 [Device Manager] (for Windows 98/Me), or select [Control Panel]\* → [System] →
 [Hardware] → [Device Manager] (for Windows 2000/XP).

\* Classic View only in Windows XP.

2 Make sure that no "!" or "x" marks appear at "Universal serial bus controller" or "USB Root Hub". If you see an "!" or "x" mark, the USB controller is disabled.

## • Is any unknown device registered?

If driver installation fails, the instrument will be marked as an "Unknown device", and you will not be able to install the driver. Delete the "Unknown device" by following the steps below.

 Select [Control Panel] → [System] →
 [Device Manager] (for Windows 98/Me), or select [Control Panel]\* → [System] →
 [Hardware] → [Device Manager] (for Windows 2000/XP).

\* Classic View only in Windows XP.

- **2** Look for "Other devices" in the menu "View devices by type".
- **3** If you find "Other devices", double-click it to extend the tree to look for "Unknown device". If one appears, select it and click the [Remove] button.

**4** Remove the USB cable from the instrument, and make the connection again.

## **5** Install the driver again.

- Windows 98/Me users..... see page 88
- Windows 2000 users...... see page 88
- Windows XP users.....see page 89

## When controlling the instrument from your computer via USB, the instrument does not operate correctly or no sound is heard.

- Did you install the driver? (page 87)
- Is the USB cable connected correctly?
- Are the volume settings of the instrument, playback device, and application program set to the appropriate levels?
- Have you selected an appropriate port in the sequence software?
- Are you using the latest USB MIDI driver? The latest driver can be downloaded from the following web site.

http://music.yamaha.com/download/

## Playback response is delayed.

- Does your computer satisfy the system requirements?
- Is any other application or device driver running?

# Cannot suspend or resume the computer correctly.

• Do not suspend the computer while the MIDI application is running.

If you are using Windows 2000, you may not be able to suspend/resume normally, depending on the particular environment (USB Host Controller, etc.). Even so, simply disconnecting and connecting the USB cable will allow you to use the instrument functions again.

# How can I delete or re-install the driver?

## [Windows Me/98]

- When the instrument is recognized correctly, double-click "System" in the Control Panel to open the System window.
- **2** Double-click the "Device Manager" tab, select "YAMAHA USB MIDI Driver" and delete it.
- **3** Use the MS-DOS prompt or Explorer to delete the following three files.

#### NOTE

• To delete these files using Explorer, select "Folder Options" from the Tool (View) menu, and select "Show all files" (and folders).

- \WINDOWS\INF\OTHER\1039.INF
- \WINDOWS\SYSTEM\Xgusb.drv
- \WINDOWS\SYSTEM\Ymidusb.sys

**4** Disconnect the USB cable.

- **5** Restart the computer.
- **6** Re-install the driver.

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# Troubleshooting

Problem	Possible Cause and Solution
When the instrument is turned on or off, a popping sound is temporarily produced.	This is normal and indicates that the instrument is receiving electrical power.
When using a mobile phone, noise is produced.	Using a mobile phone in close proximity to the instrument may produce interfer- ence. To prevent this, turn off the mobile phone or use it further away from the instrument.
There is no sound even when the keyboard is played or when a song or style is being played back.	Check that nothing is connected to the PHONES/OUTPUT jack on the rear panel. When a set of headphones is plugged into this jack, no sound is output.
when a song or style is being played back.	Check the Local Control on/off. (See page 80.)
Playing keys in the right hand area of the keyboard does not produce any sound.	When using the Dictionary function (page 70), the keys in the right hand area are used only for entering the chord root and type.
<ul> <li>The volume is too soft.</li> <li>The sound quality is poor.</li> <li>The rhythm stops unexpectedly or will not play.</li> <li>The recorded data of the song, etc. does not play correctly.</li> <li>The LCD display suddenly goes dark, and all panel settings are reset.</li> </ul>	The batteries are low or dead. Replace all six batteries with completely new ones, or use the optional AC adaptor.
The style or song does not play back when the [START/STOP] button is pressed.	Is External Clock set to ON? Make sure External Clock is set to OFF; refer to "External Clock" on page 80.
	Make sure that the Style Volume (page 76) is set to an appropriate level.
The style does not sound properly.	Is the split point set at an appropriate key for the cords you are playing? Set the split point at an appropriate key (page 65). Is the "ACMP ON" indicator showing in the display? If it is not showing press the [ACMP ON/OFF] button so that it does show.
No rhythm accompaniment plays when the [START/ STOP] button is pressed after selecting style number 121 or a style between 133–150 (Pianist).	This is not a malfunction. Style number 121 and style numbers 133–150 (Pia- nist) have no rhythm parts, so no rhythm will play. The other parts will begin playing when you play a chord in the accompaniment range of the keyboard if style playback is turned on.
Not all of the voices seem to sound, or the sound seems to be cut off.	The instrument is polyphonic up to a maximum of 32 notes. If the Dual voice or Split voice is being used and a style or song is playing back at the same time, some notes/sounds may be omitted (or "stolen") from the accompaniment or song.
The footswitch (for sustain) seems to produce the opposite effect. For example, pressing the footswitch cuts off the sound and releasing it sustains the sounds.	The polarity of the footswitch is reversed. Make sure that the footswitch plug is properly connected to the SUSTAIN jack before turning on the power.
The sound of the voice changes from note to note.	This is normal. The AWM tone generation method uses multiple recordings (samples) of an instrument across the range of the keyboard; thus, the actual sound of the voice may be slightly different from note to note.
The wrong notes sound when the keyboard is played.	Perhaps the performance assistant technology is turned on. Press the [PERFORMANCE ASSISTANT] button to turn it off.
The ACMP ON indicator does not appear when the [ACMP ON/OFF] button is pressed.	Is the [STYLE] button lit? Always press the [STYLE] button first when you are going to use any style-related function.
There is no harmony sound.	The harmony effects (01–26) behave differently according to their type. Types 01–05 function when style playback is on, chords are played in the accompaniment range of the keyboard, and a melody is played in the right-hand range. Types 06–26 will function whether style playback is on or off. For types 06 = 12 you need to play two notes at the same time.

# Memo




This demo is an example of how the Easy Song Arranger can be used to change styles throughout a piece.



(Function Demo for Easy Song Arranger)









This score is provided with the intent that the pitch will be corrected by the performance assistant technology feature. If you play the "Play These Notes" part using the performance assistant technology feature, the part will be corrected and played so that it matches the backing part.







This score is provided with the intent that the pitch will be corrected by the performance assistant technology feature. If you play the "Play These Notes" part using the performance assistant technology feature, the part will be corrected and played so that it matches the backing part.









## 

The instrument has 32-note maximum polyphony. This means that it can play a maximum of up to 32 notes at once, regardless of what functions are used. Auto accompaniment uses a number of the available notes, so when auto accompaniment is used the total number of available notes for playing on the keyboard is correspondingly reduced. The same applies to the Split Voice and Song functions. If the maximum polyphony is exceeded, earlier played notes will be cut off and the most recent notes have priority (last note priority).

### Panel Voice List

Voice	Dank	Select	MIDI Program	
No.	MSB (0–127)	LSB (0–127)	Change# (1–128)	Voice Name
			PIA	ANO
001	000	112	001	Grand Piano
002	000	112	002	Bright Piano
003	000	112	007	Harpsichord
004	000	112	004	Honky-tonk Piano
005	000	112	003	MIDI Grand Piano
006	000	113	003	CP 80
0.07				ANO
007	000	114	005	Cool! Galaxy Electric Piano
008	000	113 112	006	Hyper Tines
009	000	112	005 006	Funky Electric Piano DX Modern Electric Piano
010 011		112		Venus Electric Piano
011	000	112	006 008	Clavi
012	000	112		GAN
013	000	118	019	Cool! Organ
014	000	117	019	Cool! Rotor Organ
015	000	112	017	Jazz Organ 1
016	000	113	017	Jazz Organ 2
017	000	112	019	Rock Organ
018	000	114	019	Purple Organ
019	000	112	018	Click Organ
020	000	116	017	Bright Organ
021	000	127	019	Theater Organ
022	22 000 121		020	16'+2' Organ
023	000	120	020	16'+4' Organ
024	000	113	020	Chapel Organ
025	000	112	020	Church Organ
026	000	112	021	Reed Organ
		-		RDION
027	000	112	022	Musette Accordion
028	000	113	022	Traditional Accordion
029	000	113	024	Bandoneon
030	000	113	023	Modern Harp
031	000	112	023	Harmonica
000	000	110		TAR
032	000	112 112	025	Classical Guitar Folk Guitar
033 034	000	112	026 027	Jazz Guitar
034	000	112	027	60's Clean Guitar
035	000	113	028	12Strings Guitar
030	000	112	020	Clean Guitar
037	000	113	028	Octave Guitar
039	000	112	027	Muted Guitar
040	000	112	020	Overdriven Guitar
040	000	112	031	Distortion Guitar
				ASS
042	000	112	034	Finger Bass
043	000	112	033	Acoustic Bass
044	000	112	035	Pick Bass
045	000	112	036	Fretless Bass
046	000	112	037	Slap Bass
047	000	112	039	Synth Bass
048	000	113	039	Hi-Q Bass
049	000	113	040	Dance Bass

#### 

- The Voice List includes MIDI program change numbers for each voice. Use these program change numbers when playing the instrument via MIDI from an external device.
- Program Numbers 001 to 128 directly relate to MIDI Program Change Numbers 000 to 127. That is, Program Numbers and Program Change Numbers differ by a value of 1. Remember to take this into consideration.
- Some voices may sound continuously or have a long decay after the notes have been released while the sustain pedal (footswitch) is held.

	Bank	Select	MIDI	
Voice No.	MSB (0–127)	LSB (0–127)	Program Change#	Voice Name
	(0-127)	(0-127)	(1-128)	
050	000	110		INGS String Encomble
050 051	000	112 112	049 050	String Ensemble Chamber Strings
052	000	112	050	Slow Strings
052	000	112	030	Tremolo Strings
054	000	112	051	Synth Strings
055	000	112	046	Pizzicato Strings
056	000	112	041	Violin
057	000	112	043	Cello
058	000	112	044	Contrabass
059	000	112	047	Harp
060	000	112	106	Banjo
061	000	112	056	Orchestra Hit
			-	OIR
062	000	112	053	Choir
063	000	113	053	Vocal Ensemble
064	000	112	055	Air Choir
065	000	112	054	Vox Humana
066	000	117	067	PHONE Sweet! Tenor Sax
066	000	113	067	Sweet! Soprano Sax
068	000	112	067	Tenor Sax
069	000	112	066	Alto Sax
070	000	112	065	Soprano Sax
071	000	112	068	Baritone Sax
072	000	114	067	Breathy Tenor Sax
073	000	112	072	Clarinet
074	000	112	069	Oboe
075	000	112	070	English Horn
076	000	112	071	Bassoon
		-		MPET
077	000	115	057	Sweet! Trumpet
078	000	112	057	Trumpet
079	000	112	058	Trombone
080	000	113	058	Trombone Section
081	000	112 112	060	Muted Trumpet French Horn
082	000	112	061 059	Tuba
063	000	112		ASS
084	000	112	062	Brass Section
085	000	112	062	Big Band Brass
086	000	113	063	80's Brass
087	000	119	062	Mellow Horns
088	000	114	063	Techno Brass
089	000	112	063	Synth Brass
				UTE
090	000	114	074	Sweet! Flute
091	000	113	076	Sweet! Pan Flute
092	000	112	074	Flute
093	000	112	073	Piccolo
094	000	112	076	Pan Flute
095	000	112	075	Recorder
096	000	112	080	Ocarina
007	000	110		H LEAD Square Lead
097	000	112	081	Square Leau

	Popk	Select	MIDI			
Voice No.	MSB (0–127)	LSB (0–127)	Program Change# (1–128)	Voice Name		
098	000	112	082	Sawtooth Lead		
099	000	115	082	Analogon		
100	000	119	082	Fargo		
101	000	112	099	Star Dust		
102	000	112	086	Voice Lead		
103	000	112	101	Brightness		
		-	SYNT	H PAD		
104	000	112	092	Xenon Pad		
105	000	112	095	Equinox		
106	000	112	089	Fantasia		
107	000	113	090	Dark Moon		
108	000	113	101	Bell Pad		
			PERCU	JSSION		
109	000	112	012	Vibraphone		
110	000	112	013	Marimba		
111	000	112	014	Xylophone		
112	000	112	115	Steel Drums		
113	000	112	009	Celesta		
114	000	112	011	Music Box		
115	000	112	015	Tubular Bells		
116	000	112	048	Timpani		
			DRUM	A KITS		
117	127	000	001	Standard Kit 1		
118	127	000	002	Standard Kit 2		
119	127	000	009	Room Kit		
120	127	000	017	Rock Kit		
121	127	000	025	Electronic Kit		
122	127	000	026	Analog Kit		
123	127	000	113	Dance Kit		
124	127	000	033	Jazz Kit		
125	127	000	041	Brush Kit		
126	127	000	049	Symphony Kit		
127	126	000	001	SFX Kit 1		
128	126	000	002	SFX Kit 2		

## • XGlite Voice/XGlite Optional Voice\* List

	Bank	Select	MIDI	
Voice No.			Program Change# (1–128)	Voice Name
			PI/	ANO
129	000	000	001	Grand Piano
130	000	001	001	Grand Piano KSP
131	000	040	001	Piano Strings
132	000	041	001	Dream
133	000	000	002	Bright Piano
134	000	001	002	Bright Piano KSP
135	000	000	003	Electric Grand Piano
136	000	001	003	Electric Grand Piano KSP
137	000	032	003	Detuned CP80
138	000	000	004	Honky-tonk Piano
139	000	001	004	Honky-tonk Piano KSP
140	000	000	005	Electric Piano 1
141	000	001	005	Electric Piano 1 KSP
142	000	032	005	Chorus Electric Piano 1
143	000	000	006	Electric Piano 2
144	000	001	006	Electric Piano 2 KSP
*145	000	032	006	Chorus Electric Piano 2
146	000	041	006	DX + Analog Electric Piano
147	000	000	007	Harpsichord
148	000	001	007	Harpsichord KSP
149	000	035	007	Harpsichord 2
150	000	000	008	Clavi
151	000	001	008	Clavi KSP
			CHRO	MATIC
152	000	000	009	Celesta
153	000	000	010	Glockenspiel
154	000	000	011	Music Box
155	000	064	011	Orgel

	Bank	Select	MIDI				
Voice No.	MSB (0–127)	LSB (0–127)	Program Change# (1–128)	Voice Name			
156	000	000	012	Vibraphone			
157	000	001	012	Vibraphone KSP			
158	000	000	013	Marimba			
159	000	001	013	Marimba KSP			
160	000	064	013	Sine Marimba			
161	000	097	013	Balimba			
162 163	000	098 000	013 014	Log Drums			
163	000	000	014	Xylophone Tubular Bells			
165	000	096	015	Church Bells			
166	000	097	015	Carillon			
167	000	000	016	Dulcimer			
168	000	035	016	Dulcimer 2			
169	000	096	016	Cimbalom			
170	000	097	016	Santur			
				GAN			
171	000	000	017	Drawbar Organ			
172	000	032	017	Detuned Drawbar Organ			
173	000	033	017	60's Drawbar Organ 1			
174	000	034	017	60's Drawbar Organ 2			
175 176	000	035 037	017 017	70's Drawbar Organ 1 60's Drawbar Organ 3			
176	000	037	017	16+2'2/3			
177	000	040	017	Organ Bass			
170	000	065	017	70's Drawbar Organ 2			
180	000	066	017	Cheezy Organ			
181	000	067	017	Drawbar Organ 2			
182	000	000	018	Percussive Organ			
183	000	024	018	70's Percussive Organ			
184	000	032	018	Detuned Percussive Organ			
185	000	033	018	Light Organ			
186	000	037	018	Percussive Organ 2			
187	000	000	019	Rock Organ			
188	000	064	019	Rotary Organ			
189	000	065	019	Slow Rotary			
190 191	000	066	019 020	Fast Rotary Church Organ			
191	000	032	020	Church Organ 3			
192	000	035	020	Church Organ 2			
194	000	040	020	Notre Dame			
195	000	064	020	Organ Flute			
196	000	065	020	Tremolo Organ Flute			
197	000	000	021	Reed Organ			
198	000	040	021	Puff Organ			
199	000	000	022	Accordion			
200	000	000	023	Harmonica			
201	000	032	023	Harmonica 2			
202	000	000	024	Tango Accordion			
203	000	064	024	Tango Accordion 2			
204	000	000	025	TAR Nylon Guitar			
204	000	000	025	Velocity Guitar Harmonics			
205	000	096	025	Ukulele			
207	000	000	026	Steel Guitar			
208	000	035	026	12-string Guitar			
209	000	040	026	Nylon & Steel Guitar			
210	000	041	026	Steel Guitar with Body Sound			
211	000	096	026	Mandolin			
212	000	000	027	Jazz Guitar			
213	000	032	027	Jazz Amp			
214	000	000	028	Clean Guitar			
215	000	032	028	Chorus Guitar			
216 217	000	000	029 029	Muted Guitar Funk Guitar			
217	000	040	029	Muted Steel Guitar			
210	000	041	029	Jazz Man			
220	000	000	029	Overdriven Guitar			
221	000	043	030	Guitar Pinch			
222	000	000	031	Distortion Guitar			
223	000	040	031	Feedback Guitar			
224	000	041	031	Feedback Guitar 2			

	Dank	Select	MIDI		
Voice			Program	Voice Name	
No.	MSB (0–127)	LSB (0–127)	Change#	voice name	
225	· ,	· ,	(1–128) 032	Guitar Harmonics	
225	000	000	032	Guitar Harmonics Guitar Feedback	
220	000	066	032	Guitar Harmonics 2	
				ASS	
228	000	000	033	Acoustic Bass	
229	000	040	033	Jazz Rhythm	
230	000	045	033	Velocity Crossfade Upright Bass	
231	000	000	034 034	Finger Bass	
232 233	000	018	034	Finger Dark Bass & Distorted Electric Guitar	
233	000	040	034	Finger Slap Bass	
235	000	045	034	Finger Bass 2	
236	000	065	034	Modulated Bass	
237	000	000	035	Pick Bass	
238	000	028	035	Muted Pick Bass	
239	000	000	036	Fretless Bass	
240 241	000	032	036 036	Fretless Bass 2 Fretless Bass 3	
241	000	033	036	Fretless Bass 4	
243	000	000	037	Slap Bass 1	
244	000	032	037	Punch Thumb Bass	
245	000	000	038	Slap Bass 2	
246	000	043	038	Velocity Switch Slap	
247	000	000	039	Synth Bass 1	
248	000	040	039	Techno Synth Bass	
249 250	000	000	040	Synth Bass 2 Mellow Synth Bass	
251	000	012	040	Sequenced Bass	
252	000	012	040	Click Synth Bass	
253	000	019	040	Synth Bass 2 Dark	
*254	000	040	040	Modular Synth Bass	
255	000	041	040	DX Bass	
050			-	INGS	
256 257	000	000	041 041	Violin Slow Violin	
257	000	000	041	Viola	
259	000	000	043	Cello	
260	000	000	044	Contrabass	
261	000	000	045	Tremolo Strings	
262	000	008	045	Slow Tremolo Strings	
263	000	040	045	Suspense Strings	
264	000	000	046	Pizzicato Strings	
265 266	000	000	047	Orchestral Harp Yang Chin	
267	000	000	048	Timpani	
				MBLE	
268	000	000	049	Strings 1	
269	000	003	049	Stereo Strings	
270	000	008	049	Slow Strings	
271 272	000	035 040	049 049	60's Strings Orchestra	
272	000	040	049	Orchestra 2	
273	000	041	049	Tremolo Orchestra	
275	000	045	049	Velocity Strings	
276	000	000	050	Strings 2	
277	000	003	050	Stereo Slow Strings	
278	000	008	050	Legato Strings	
279	000	040	050	Warm Strings	
280 281	000	041	050 051	Kingdom Synth Strings 1	
281	000	000	051	Synth Strings 2	
283	000	000	052	Choir Aahs	
284	000	003	053	Stereo Choir	
285	000	032	053	Mellow Choir	
286	000	040	053	Choir Strings	
287	000	000	054	Voice Oohs	
288	000	000	055	Synth Voice	
289 290	000	040	055 055	Synth Voice 2 Choral	
290	000	041	055	Analog Voice	
292	000	000	055	Orchestra Hit	
293	000	035	056	Orchestra Hit 2	

	Bank	Select	MIDI	
Voice No.	MSB	LSB	Program Change#	Voice Name
NO.	(0–127) (0–127) (1–128)			
294	000	064	056	Impact
295	000	000	057	ASS Trumpet
296	000	032	057	Warm Trumpet
297	000	000	058	Trombone
298	000	018	058	Trombone 2
299	000	000	059	Tuba
300	000	000	060	Muted Trumpet
301	000	000	061	French Horn
302	000	006	061	French Horn Solo
303	000	032 037	061	French Horn 2 Horn Orchestra
304 305	000	000	061 062	Brass Section
305	000	000	062	Trumpet & Trombone Section
307	000	000	063	Synth Brass 1
308	000	020	063	Resonant Synth Brass
309	000	000	064	Synth Brass 2
310	000	018	064	Soft Brass
311	000	041	064	Choir Brass
				ED
312	000	000	065	Soprano Sax
313	000	000	066	Alto Sax
314	000	040	066	Sax Section
315 316	000	000 040	067 067	Tenor Sax Breathy Tenor Sax
316	000	040	067	Baritone Sax
317	000	000	068	Oboe
319	000	000	070	English Horn
320	000	000	070	Bassoon
321	000	000	072	Clarinet
			PI	PE
322	000	000	073	Piccolo
323	000	000	074	Flute
324	000	000	075	Recorder
325	000	000	076	Pan Flute
326 327	000	000	077 078	Blown Bottle
327	000	000	078	Shakuhachi Whistle
329	000	000	079	Ocarina
020	000	000		1 LEAD
330	000	000	081	Square Lead
331	000	006	081	Square Lead 2
332	000	008	081	LM Square
333	000	018	081	Hollow
334	000	019	081	Shroud
335	000	064	081	Mellow
336	000	065	081	Solo Sine
337	000	066	081 082	Sine Lead
338 339	000	000	082	Sawtooth Lead Sawtooth Lead 2
340	000	008	082	Thick Sawtooth
341	000	018	082	Dynamic Sawtooth
342	000	019	082	Digital Sawtooth
343	000	020	082	Big Lead
344	000	096	082	Sequenced Analog
345	000	000	083	Calliope Lead
346	000	065	083	Pure Lead
347	000	000	084	Chiff Lead
348	000	000	085	Charang Lead
349 350	000	064	085	Distorted Lead
350	000	000	086 087	Voice Lead Fifths Lead
352	000	035	087	Big Five
353	000	000	088	Bass & Lead
354	000	016	088	Big & Low
355	000	064	088	Fat & Perky
356	000	065	088	Soft Whirl
				H PAD
357	000	000	089	New Age Pad
358	000	064	089	Fantasy
050	000		000	
359 360	000	000	090 091	Warm Pad Poly Synth Pad

Voice No.         MSB (0-127)         LSB (0-127)         Program (1-128)         Voice Name           361         000         000         092         Choir Pad           363         000         000         093         Bowed Pad           364         000         000         095         Halo Pad           366         000         000         096         Sweep Pad           367         000         000         097         Rain           368         000         065         097         African Wind           368         000         065         097         African Wind           370         000         000         098         Sound Track           371         000         012         099         Program           373         000         014         099         Program           374         000         041         099         Chours Bells           377         000         042         099         Chours Bells           380         000         071         099         Bell Hap           381         000         072         099         Barelins           382         000		Bank	Select	MIDI				
No.         (0-127)         (C-128)           361         000         000         092         Itopia           363         000         000         093         Bowed Pad           364         000         000         094         Metallic Pad           366         000         000         095         Hale Pad           366         000         000         095         Hale Pad           366         000         006         097         Rain           368         000         065         097         African Wind           368         000         066         097         Carib           371         000         001         099         Round Track           371         000         012         099         Synth Drum Comp           374         000         014         099         Round Glockenspiel           376         000         041         099         Clear Bells           377         000         042         099         Chorus Bells           380         000         070         099         Air Bells           381         000         071         099         Gamelimba	Voice							
Image: Second	No.				voice name			
362         000         066         092         Itopia           363         000         000         093         Bowed Pad           365         000         000         094         Metallic Pad           366         000         000         095         Halo Pad           366         000         000         097         Rain           368         000         066         097         Carib           370         000         000         098         Sound Track           371         000         012         098         Prologue           372         000         014         099         Crystal           373         000         014         099         Popcorn           375         000         041         099         Chorus Bells           377         000         041         099         Chorus Bells           380         000         071         099         Barelinbaa           381         000         070         099         Are Bells           382         000         071         099         Bell Harp           383         000         072         099	361	. ,	• •		Choir Pad			
363         000         000         093         Bowed Pad           364         000         000         095         Halo Pad           366         000         000         095         Halo Pad           366         000         000         095         Halo Pad           368         000         065         097         African Wind           368         000         066         097         Carib           371         000         002         098         Sound Track           371         000         012         099         Synth Drum Comp           374         000         014         099         Tiny Bells           375         000         040         099         Chorus Dells           376         000         041         099         Chorus Dells           377         000         040         099         Chorus Dells           378         000         042         099         Chorus Dells           381         000         071         099         Gamelimba           384         000         000         100         Atrosphere           385         000         100		-						
365         000         000         095         Halo Pad           366         000         000         097         Rain           368         000         065         097         African Wind           368         000         066         097         Carib           370         000         000         098         Sound Track           371         000         027         098         Prologue           373         000         012         099         Synth Drum Comp           374         000         014         099         Popcorn           375         000         014         099         Chorus Bells           376         000         042         099         Chorus Bells           380         000         042         099         Chorus Bells           381         000         070         099         Air Bells           382         000         018         100         Atmosphere           384         000         000         100         Atmosphere           385         000         066         100         Atmosphere           386         000         661		-	-					
366         000         000         090         Sweep Pad           SYNTH EFFECTS           368         000         065         097         African Wind           368         000         065         097         Carib           370         000         020         098         Sound Track           371         000         012         098         Prologue           372         000         014         099         Rystal           373         000         014         099         Popcorn           374         000         014         099         Popcorn           375         000         041         099         Clear Bells           377         000         041         099         Clear Bells           380         000         065         099         Soft Crystal           381         000         070         199         Bell Harp           383         000         001         Namosphere           384         000         001         Namosphere           384         000         065         100         Harp Vox           384         000         066								
SYNTH EFFECTS           367         000         000         097         Rain           368         000         066         097         Carib           370         000         000         098         Sound Track           371         000         000         099         Crystal           373         000         012         099         Synth Drum Comp           374         000         014         099         Popcorn           375         000         018         099         Round Glockenspiel           376         000         041         099         Clear Bells           377         000         042         099         Chorus Bells           381         000         071         099         Bell Harp           382         000         071         099         Gamelimba           384         000         000         100         Atmosphere           386         000         119         100         Hollow Release           387         000         066         100         Nylon Harp           388         000         665         100         Harp Vox           390			-					
367         000         000         097         Rain           368         000         065         097         African Wind           368         000         066         097         Carib           370         000         000         098         Sound Track           371         000         027         098         Prologue           374         000         014         099         Popcorn           374         000         014         099         Popcorn           374         000         014         099         Popcorn           377         000         040         099         Glockenspiel Chimes           377         000         041         099         Clear Bells           378         000         041         099         Soft Crystal           381         000         070         099         Air Bells           382         000         071         099         Bell Harp           384         000         001         Harosphere           384         000         064         100         Nylon Harp           386         000         065         102         Crep	366	000	000					
368         000         065         097         African Wind           369         000         066         097         Carib           371         000         000         098         Sound Track           371         000         000         099         Crystal           373         000         014         099         Popcorn           374         000         014         099         Popcorn           375         000         014         099         Clear Bells           377         000         040         099         Glockenspiel Chimes           378         000         041         099         Clear Bells           380         000         065         099         Soft Crystal           381         000         070         099         Gamelimba           382         000         011         Holow Release           384         000         000         100         Atmosphere           385         000         065         100         Harp Vox           391         000         066         100         Atmosphere Pad           391         000         066         102	367	000	000	_				
370         000         000         098         Sound Track           371         000         027         098         Prologue           373         000         012         099         Synth Drum Comp           374         000         014         099         Popcorn           374         000         014         099         Popcorn           374         000         040         099         Glockenspiel           377         000         041         099         Glockenspiel           377         000         042         099         Chorus Bells           380         000         065         099         Soft Crystal           381         000         071         099         Bell Harp           383         000         072         099         Gamelimba           384         000         018         100         Warn Atmosphere           385         000         046         100         Nylon Electric Piano           386         000         065         100         Harp Vox           390         000         665         102         Goblins           391         000         66		-	-					
371         000         027         098         Prologue           372         000         000         099         Crystal           373         000         014         099         Popcorn           375         000         014         099         Finy Bells           376         000         040         099         Glockenspiel Chimes           377         000         041         099         Clear Bells           378         000         042         099         Chorus Bells           380         000         070         099         Air Bells           381         000         071         099         Bell Harp           383         000         071         099         Bell           384         000         000         100         Atmosphere           386         000         018         100         Nylon Harp           386         000         064         100         Nylon Harp           389         000         065         102         Goblins           391         000         066         102         Creeper           392         000         066         102 </td <td></td> <td></td> <td></td> <td></td> <td></td>								
372         000         000         099         Crystal           373         000         012         099         Synth Drum Comp           374         000         014         099         Popcorn           375         000         018         099         Tiny Bells           376         000         041         099         Glockenspiel Chimes           377         000         041         099         Clear Bells           377         000         042         099         Chorus Bells           380         000         065         099         Soft Crystal           381         000         071         099         Bell Harp           383         000         072         099         Gamelinba           384         000         010         Atmosphere           385         000         018         100         Warn Atmosphere           386         000         064         100         Nylon Electric Piano           387         000         066         100         Atmosphere Pad           391         000         066         100         Harp Vox           393         000         066		-						
373         000         012         099         Synth Drum Comp           374         000         014         099         Popcorn           375         000         035         099         Tiny Bells           376         000         040         099         Glockenspiel Chimes           377         000         041         099         Clear Bells           379         000         042         099         Chorus Bells           380         000         070         099         Air Bells           381         000         071         099         Gamelimba           382         000         071         099         Gamelimba           384         000         001         Atmosphere           385         000         018         100         Warn Atmosphere           386         000         044         100         Nylon Harp           387         000         066         100         Atmosphere Pad           391         000         066         102         Creeper           392         000         066         102         Creeper           393         000         066         10								
374         000         014         099         Pipcorn           375         000         018         099         Round Glockenspiel           376         000         040         099         Glockenspiel Chimes           377         000         041         099         Clear Bells           379         000         042         099         Chorus Bells           380         000         065         099         Soft Crystal           381         000         071         099         Bell Harp           382         000         072         099         Gamelimba           384         000         000         100         Atmosphere           385         000         018         100         Warm Atmosphere           386         000         064         100         Nylon Electric Piano           388         000         065         100         Harp Vox           390         000         065         100         Harp Vox           391         000         065         102         Creeper           393         000         064         102         Goblins           394         000								
376         000         035         099         Round Glockenspiel           377         000         040         099         Glockenspiel Chimes           378         000         041         099         Chorus Bells           380         000         065         099         Soft Crystal           381         000         070         099         Air Bells           382         000         071         099         Gamelimba           384         000         000         100         Atmosphere           385         000         018         100         Warm Atmosphere           386         000         044         100         Nylon Harp           387         000         064         100         Nylon Harp           389         000         065         100         Hary Dox           390         000         065         102         Goblins           391         000         000         102         Goblins           393         000         065         102         Creeper           394         000         066         102         Night           398         000         071		-	-					
377         000         040         099         Glockenspiel Chimes           378         000         041         099         Clear Bells           380         000         065         099         Soft Crystal           381         000         071         099         Bell Harp           382         000         072         099         Gamelimba           384         000         000         100         Atmosphere           385         000         019         100         Harnosphere           386         000         019         100         Mylon Electric Piano           387         000         066         100         Atmosphere Pad           389         000         066         100         Harp Vox           390         000         066         102         Goblins           391         000         065         102         Creeper           392         000         067         102         Ritual           394         000         065         102         Creeper           395         000         071         102         Bilt           397         000         070								
378         000         041         099         Chorus Bells           380         000         065         099         Soft Crystal           381         000         070         099         Air Bells           382         000         071         099         Bell Harp           383         000         072         099         Gamelimba           384         000         000         100         Atmosphere           385         000         018         100         Warm Atmosphere           386         000         040         100         Nylon Electric Piano           387         000         044         100         Nylon Harp           388         000         065         100         Harp Vox           391         000         066         102         Goblins           392         000         067         102         Ritual           394         000         065         102         Creeper           395         000         071         102         Bilt           394         000         076         102         Ritual           398         000         071         1		-	-					
379         000         042         099         Chorus Bells           380         000         065         099         Soft Crystal           381         000         071         099         Bell Harp           382         000         071         099         Gamelimba           384         000         072         099         Gamelimba           384         000         071         099         Gamelimba           384         000         071         009         Gamelimba           385         000         018         100         Warm Atmosphere           386         000         064         100         Nylon Harp           388         000         065         100         Harp Vox           390         000         666         100         Atmosphere Pad           391         000         006         102         Goblins Synth           393         000         065         102         Creeper           395         000         070         102         Ritual           396         000         071         102         Glisten           397         000         070	-	-						
380         000         065         099         Soft Crystal           381         000         072         099         Bell Harp           383         000         072         099         Gamelimba           384         000         000         100         Atmosphere           385         000         018         100         Warm Atmosphere           386         000         019         100         Hollow Release           387         000         044         100         Nylon Electric Piano           388         000         066         100         Atmosphere Pad           391         000         000         101         Brightness           392         000         065         102         Goblins           393         000         065         102         Ritual           394         000         068         102         To Heaven           395         000         071         102         Rightness           395         000         071         102         Glisten           398         000         000         103         Echoes           401         000         000								
382         000         071         099         Bell Harp           383         000         072         099         Gamelimba           384         000         000         100         Atmosphere           385         000         013         100         Warm Atmosphere           386         000         040         100         Nylon Electric Piano           387         000         064         100         Hylon Harp           388         000         065         100         Harp Vox           390         000         666         100         Atmosphere Pad           391         000         066         102         Goblins           392         000         0061         102         Creeper           393         000         065         102         Creeper           395         000         071         102         Biltal           398         000         071         102         Biltal           399         000         000         103         Echoes           401         000         000         105         Sitar           403         000         035         105 </td <td></td> <td>-</td> <td></td> <td></td> <td></td>		-						
383         000         072         099         Gamelimba           384         000         000         1100         Atmosphere           385         000         018         100         Warm Atmosphere           386         000         040         100         Nylon Electric Piano           387         000         064         100         Nylon Harp           388         000         065         100         Harp Vox           390         000         066         100         Atmosphere Pad           391         000         066         100         Atmosphere Pad           392         000         065         102         Goblins           393         000         065         102         Creeper           395         000         067         102         Ritual           396         000         070         102         Bilisten           398         000         071         102         Bilisten           398         000         071         102         Bilisten           399         000         000         103         Echoes           401         000         000	381	000	070	099	Air Bells			
384         000         000         100         Atmosphere           385         000         019         100         Hollow Release           387         000         040         100         Nylon Electric Piano           388         000         064         100         Nylon Harp           389         000         065         100         Harp Vox           390         000         066         100         Atmosphere Pad           391         000         000         101         Brightness           392         000         000         102         Goblins           393         000         065         102         Creeper           395         000         067         102         Ritual           396         000         068         102         To Heaven           397         000         070         102         Bell Choir           400         000         000         103         Echoes           401         000         000         104         Sci-Fi           402         000         000         105         Sitar           404         000         032         105		-						
385         000         018         100         Warm Atmosphere           386         000         019         100         Hollow Release           387         000         040         100         Nylon Electric Piano           388         000         065         100         Harp Vox           380         000         066         100         Atmosphere Pad           391         000         000         101         Brightness           392         000         000         102         Goblins           393         000         065         102         Creeper           395         000         067         102         Ritual           396         000         070         102         Ritual           398         000         071         102         Bilisten           399         000         096         102         Bell Choir           400         000         000         103         Echoes           401         000         035         105         Sitar           402         000         035         105         Sitar           404         000         035         106<		-						
386         000         019         100         Hollow Release           387         000         040         100         Nylon Electric Piano           388         000         065         100         Harp Vox           389         000         066         100         Atmosphere Pad           391         000         066         100         Atmosphere Pad           392         000         066         102         Goblins           393         000         064         102         Goblins Synth           394         000         065         102         Creeper           395         000         067         102         Ritual           396         000         068         102         To Heaven           397         000         070         102         Bilsten           398         000         071         102         Gisten           398         000         000         104         Sci-Fi           WORLD           402         000         000         105         Sitar           403         000         032         105         Detuned Sitar           404								
387         000         040         100         Nylon Electric Piano           388         000         064         100         Nylon Harp           389         000         065         100         Harp Vox           390         000         066         100         Atmosphere Pad           391         000         000         101         Brightness           392         000         000         102         Goblins           393         000         064         102         Goblins Synth           394         000         065         102         Creeper           395         000         067         102         Ritual           396         000         068         102         Night           398         000         071         102         Bitual           398         000         071         102         Bitual           398         000         000         103         Echoes           401         000         000         104         Sci-Fi           WORLD         World         Banjo         Mode           402         000         000         105         Tamboura <td></td> <td>-</td> <td></td> <td></td> <td></td>		-						
389         000         065         100         Harp Vox           390         000         066         100         Atmosphere Pad           391         000         000         101         Brightness           392         000         000         102         Goblins           393         000         064         102         Goblins Synth           394         000         065         102         Creeper           395         000         067         102         Ritual           396         000         068         102         To Heaven           397         000         070         102         Bell Choir           400         000         006         103         Echoes           401         000         000         104         Sci-Fi           WORLD         WorkLD         Muted Banjo           402         000         000         105         Sitar           403         000         035         105         Sitar 2           405         000         097         105         Tamboura           406         000         096         106         Rabab		-						
390         000         066         100         Atmosphere Pad           391         000         000         101         Brightness           392         000         004         102         Goblins           394         000         065         102         Creeper           395         000         067         102         Ritual           396         000         068         102         To Heaven           397         000         070         102         Night           398         000         071         102         Glisten           399         000         096         102         Bell Choir           400         000         000         103         Echoes           401         000         000         105         Sitar           403         000         032         105         Detuned Sitar           404         000         035         105         Sitar 2           405         000         097         105         Tamboura           404         000         028         106         Muted Banjo           407         000         029         106 <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>								
391         000         000         101         Brightness           392         000         004         102         Goblins           394         000         065         102         Creeper           395         000         065         102         Creeper           395         000         066         102         Ritual           396         000         068         102         To Heaven           397         000         070         102         Night           398         000         071         102         Glisten           399         000         096         102         Bell Choir           401         000         000         103         Echoes           401         000         000         105         Sitar           403         000         032         105         Detuned Sitar           404         000         035         105         Sitar 2           405         000         097         105         Tamboura           406         000         096         106         Rabab           409         000         097         106         Gopichant <td></td> <td>-</td> <td></td> <td></td> <td></td>		-						
392         000         000         102         Goblins           393         000         064         102         Goblins Synth           394         000         065         102         Creeper           395         000         067         102         Ritual           396         000         068         102         To Heaven           397         000         070         102         Bilsten           398         000         071         102         Bilsten           399         000         096         102         Bell Choir           400         000         000         103         Echoes           401         000         000         105         Sitar           402         000         002         105         Detuned Sitar           404         000         035         105         Sitar 2           405         000         097         105         Tamboura           406         000         097         106         Banjo           407         000         028         106         Muted Banjo           410         000         097         106         Gop		-						
393         000         064         102         Goblins Synth           394         000         065         102         Creeper           395         000         067         102         Ritual           396         000         068         102         To Heaven           397         000         070         102         Night           398         000         071         102         Bell Choir           400         000         000         103         Echoes           401         000         000         104         Sci-Fi           WORLD           402         000         002         105         Detuned Sitar           403         000         032         105         Detuned Sitar           404         000         035         105         Sitar 2           405         000         097         106         Banjo           406         000         096         106         Rabab           409         000         097         106         Gopichant           410         000         098         106         Oud           411         000         000 <td></td> <td>-</td> <td></td> <td></td> <td></td>		-						
395         000         067         102         Ritual           396         000         068         102         To Heaven           397         000         070         102         Night           398         000         071         102         Glisten           399         000         096         102         Bell Choir           400         000         000         103         Echoes           401         000         000         104         Sci-Fi           WORLD           402         000         002         105         Sitar           403         000         032         105         Detuned Sitar           404         000         035         105         Sitar 2           405         000         097         105         Tamboura           406         000         000         106         Banjo           407         000         028         106         Muted Banjo           408         000         097         106         Gopichant           410         000         097         108         Kanoon           411         000 <td< td=""><td></td><td>-</td><td></td><td></td><td></td></td<>		-						
396         000         068         102         To Heaven           397         000         070         102         Night           398         000         071         102         Glisten           399         000         096         102         Bell Choir           400         000         000         103         Echoes           401         000         000         104         Sci-Fi           WORLD           402         000         002         105         Sitar           403         000         032         105         Detuned Sitar           404         000         035         105         Sitar 2           405         000         097         105         Tamboura           406         000         000         106         Banjo           407         000         028         106         Muted Banjo           408         000         097         106         Gopichant           410         000         097         108         Kanoon           411         000         000         107         Shamisen           412         000         <		-						
397         000         070         102         Night           398         000         071         102         Glisten           399         000         096         102         Bell Choir           400         000         000         103         Echoes           401         000         000         104         Sci-Fi           WORLD           402         000         032         105         Detuned Sitar           403         000         035         105         Sitar           404         000         035         105         Sitar 2           405         000         097         105         Tamboura           406         000         028         106         Muted Banjo           407         000         028         106         Gopichant           410         000         097         106         Gopichant           410         000         097         108         Kanoon           411         000         096         108         Taisho-kin           414         000         097         108         Kanoon           414         000		-						
398         000         071         102         Glisten           399         000         096         102         Bell Choir           400         000         000         103         Echoes           401         000         000         104         Sci-Fi           WORLD           402         000         032         105         Detuned Sitar           403         000         035         105         Sitar 2           404         000         035         105         Tamboura           404         000         035         106         Banjo           405         000         097         105         Tamboura           406         000         008         106         Banjo           407         000         028         106         Muted Banjo           408         000         096         106         Rabab           410         000         097         106         Gopichant           410         000         097         108         Kanoon           411         000         097         108         Kanoon           414         000		-						
400         000         000         103         Echoes           401         000         000         104         Sci-Fi           WORLD           402         000         000         105         Sitar           403         000         032         105         Detuned Sitar           404         000         035         105         Sitar 2           405         000         097         105         Tamboura           406         000         000         106         Banjo           407         000         028         106         Muted Banjo           408         000         096         106         Rabab           409         000         097         106         Gopichant           410         000         098         106         Oud           411         000         000         107         Shamisen           412         000         000         108         Katoo           413         000         097         108         Kanoon           414         000         097         108         Kanoon           415         000         000		-						
401         000         000         104         Sci-Fi           WORLD           402         000         000         105         Sitar           403         000         032         105         Detuned Sitar           404         000         035         105         Sitar 2           405         000         097         105         Tamboura           406         000         000         106         Banjo           407         000         028         106         Muted Banjo           408         000         096         106         Rabab           409         000         097         106         Gopichant           410         000         098         106         Oud           411         000         000         107         Shamisen           412         000         000         108         Kainoon           413         000         097         108         Kanoon           414         000         097         108         Kanoon           415         000         000         111         Fiddle           417         000         000 <td>399</td> <td>000</td> <td>096</td> <td>102</td> <td>Bell Choir</td>	399	000	096	102	Bell Choir			
WORLD           402         000         000         105         Sitar           403         000         032         105         Detuned Sitar           404         000         035         105         Sitar 2           405         000         097         105         Tamboura           406         000         000         106         Banjo           407         000         028         106         Muted Banjo           408         000         096         106         Rabab           409         000         097         106         Gopichant           410         000         098         106         Oud           411         000         000         107         Shamisen           412         000         000         108         Koto           413         000         096         108         Taisho-kin           414         000         097         108         Kanoon           415         000         000         110         Bagpipe           417         000         000         111         Fiddle           418         000         000								
402         000         000         105         Sitar           403         000         032         105         Detuned Sitar           404         000         035         105         Sitar 2           405         000         097         105         Tamboura           406         000         000         106         Banjo           407         000         028         106         Muted Banjo           408         000         096         106         Rabab           409         000         097         106         Gopichant           410         000         098         106         Oud           411         000         000         107         Shamisen           412         000         000         108         Koto           413         000         096         108         Taisho-kin           414         000         097         108         Kanoon           415         000         000         110         Bagpipe           417         000         000         111         Fiddle           418         000         000         113         Tinkle Bell	401	000	000	-				
403         000         032         105         Detuned Sitar           404         000         035         105         Sitar 2           405         000         097         105         Tamboura           406         000         000         106         Banjo           407         000         028         106         Muted Banjo           408         000         096         106         Rabab           409         000         097         106         Gopichant           410         000         098         106         Oud           411         000         000         107         Shamisen           412         000         000         108         Koto           413         000         097         108         Kanoon           414         000         097         108         Kanoon           415         000         000         110         Bagpipe           417         000         000         111         Fiddle           418         000         000         113         Tinkle Bell           420         000         097         113         Bonang	402	000	000					
404         000         035         105         Sitar 2           405         000         097         105         Tamboura           406         000         000         106         Banjo           407         000         028         106         Muted Banjo           408         000         096         106         Rabab           409         000         097         106         Gopichant           410         000         098         106         Oud           411         000         000         107         Shamisen           412         000         000         108         Koto           413         000         096         108         Taisho-kin           414         000         097         108         Kanoon           414         000         097         108         Kanoon           415         000         000         110         Bagpipe           417         000         000         111         Fiddle           418         000         000         113         Tinkle Bell           420         000         097         113         Bonang </td <td></td> <td></td> <td></td> <td></td> <td></td>								
406         000         000         106         Banjo           407         000         028         106         Muted Banjo           408         000         096         106         Rabab           409         000         097         106         Gopichant           410         000         098         106         Oud           411         000         000         107         Shamisen           412         000         000         108         Koto           413         000         096         108         Taisho-kin           414         000         097         108         Kanoon           415         000         000         109         Kalimba           416         000         000         110         Bagpipe           417         000         000         111         Fiddle           418         000         000         111         Bagpipe           417         000         000         113         Tinkle Bell           420         000         096         113         Bonang           421         000         097         113         Altair <td></td> <td></td> <td></td> <td></td> <td></td>								
407         000         028         106         Muted Banjo           408         000         096         106         Rabab           409         000         097         106         Gopichant           410         000         098         106         Oud           411         000         098         106         Oud           411         000         000         107         Shamisen           412         000         000         108         Koto           413         000         096         108         Taisho-kin           414         000         097         108         Kanoon           415         000         000         109         Kalimba           416         000         000         110         Bagpipe           417         000         000         111         Fiddle           418         000         000         112         Shanai           PERCUSSIVE           419         000         096         113         Bonang           421         000         097         113         Altair           420         000         098				105				
408         000         096         106         Rabab           409         000         097         106         Gopichant           410         000         098         106         Oud           411         000         000         107         Shamisen           412         000         000         108         Koto           413         000         096         108         Taisho-kin           414         000         097         108         Kanoon           415         000         000         109         Kalimba           416         000         000         110         Bagpipe           417         000         000         111         Fiddle           418         000         000         111         Shanai           PERCUSSIVE           419         000         000         113         Bonang           421         000         097         113         Altair           420         000         098         113         Gamelan Gongs           423         000         099         113         Stereo Gamelan Gongs           424         000								
409         000         097         106         Gopichant           410         000         098         106         Oud           411         000         000         107         Shamisen           412         000         000         108         Koto           413         000         096         108         Taisho-kin           414         000         097         108         Kanoon           415         000         000         109         Kalimba           416         000         000         110         Bagpipe           417         000         000         111         Fiddle           418         000         000         111         Shanai           PERCUSSIVE           419         000         096         113         Bonang           421         000         097         113         Altair           422         000         098         113         Gamelan Gongs           423         000         099         113         Stereo Gamelan Gongs           424         000         100         113         Rama Cymbal           425         000 <td></td> <td></td> <td></td> <td></td> <td></td>								
410         000         098         106         Oud           411         000         000         107         Shamisen           412         000         000         108         Koto           413         000         096         108         Taisho-kin           414         000         097         108         Kanoon           415         000         000         109         Kalimba           416         000         000         110         Bagpipe           417         000         000         111         Fiddle           418         000         000         111         Shanai           PERCUSSIVE           419         000         096         113         Bonang           421         000         097         113         Altair           422         000         098         113         Gamelan Gongs           423         000         099         113         Stereo Gamelan Gongs           424         000         100         113         Rama Cymbal           425         000         000         114         Agogo           426         000								
411         000         000         107         Shamisen           412         000         000         108         Koto           413         000         096         108         Taisho-kin           414         000         097         108         Kanoon           415         000         000         109         Kalimba           416         000         000         110         Bagpipe           417         000         000         111         Fiddle           418         000         000         111         Shanai           PERCUSSIVE           419         000         096         113         Bonang           420         000         096         113         Bonang           421         000         097         113         Altair           422         000         098         113         Gamelan Gongs           423         000         099         113         Stereo Gamelan Gongs           424         000         100         113         Rama Cymbal           425         000         000         114         Agogo           426         000 <td>410</td> <td></td> <td></td> <td>106</td> <td>Oud</td>	410			106	Oud			
413         000         096         108         Taisho-kin           414         000         097         108         Kanoon           415         000         000         109         Kalimba           416         000         000         110         Bagpipe           417         000         000         111         Fiddle           418         000         000         112         Shanai           PERCUSSIVE           419         000         000         113         Tinkle Bell           420         000         096         113         Bonang           421         000         097         113         Altair           422         000         098         113         Gamelan Gongs           423         000         099         113         Stereo Gamelan Gongs           424         000         100         113         Rama Cymbal           425         000         000         114         Agogo           426         000         000         115         Steel Drums								
414         000         097         108         Kanoon           415         000         000         109         Kalimba           416         000         000         110         Bagpipe           417         000         000         111         Fiddle           418         000         000         111         Fiddle           418         000         000         112         Shanai           PERCUSSIVE           419         000         000         113         Tinkle Bell           420         000         096         113         Bonang           421         000         097         113         Altair           422         000         098         113         Gamelan Gongs           423         000         099         113         Stereo Gamelan Gongs           424         000         100         113         Rama Cymbal           425         000         000         114         Agogo           426         000         000         115         Steel Drums								
415         000         000         109         Kalimba           416         000         000         110         Bagpipe           417         000         000         111         Fiddle           418         000         000         112         Shanai           PERCUSSIVE           419         000         000         113         Tinkle Bell           420         000         096         113         Bonang           421         000         097         113         Altair           422         000         098         113         Gamelan Gongs           423         000         099         113         Stereo Gamelan Gongs           424         000         100         113         Rama Cymbal           425         000         000         114         Agogo           426         000         000         115         Steel Drums								
416         000         000         110         Bagpipe           417         000         000         111         Fiddle           418         000         000         112         Shanai <b>PERCUSSIVE</b> 419         000         000         113         Tinkle Bell           420         000         096         113         Bonang           421         000         097         113         Altair           422         000         098         113         Gamelan Gongs           423         000         099         113         Stereo Gamelan Gongs           424         000         100         113         Rama Cymbal           425         000         000         114         Agogo           426         000         000         115         Steel Drums								
417         000         000         111         Fiddle           418         000         000         112         Shanai           PERCUSSIVE           419         000         000         113         Tinkle Bell           420         000         096         113         Bonang           421         000         097         113         Altair           422         000         098         113         Gamelan Gongs           423         000         099         113         Stereo Gamelan Gongs           424         000         100         113         Rama Cymbal           425         000         000         114         Agogo           426         000         000         115         Steel Drums								
PERCUSSIVE           419         000         000         113         Tinkle Bell           420         000         096         113         Bonang           421         000         097         113         Altair           422         000         098         113         Gamelan Gongs           423         000         099         113         Stereo Gamelan Gongs           424         000         100         113         Rama Cymbal           425         000         000         114         Agogo           426         000         000         115         Steel Drums	417	000	000	111	Fiddle			
419         000         000         113         Tinkle Bell           420         000         096         113         Bonang           421         000         097         113         Altair           422         000         098         113         Gamelan Gongs           423         000         099         113         Stereo Gamelan Gongs           424         000         100         113         Rama Cymbal           425         000         000         114         Agogo           426         000         000         115         Steel Drums	418	000	000					
420         000         096         113         Bonang           421         000         097         113         Altair           422         000         098         113         Gamelan Gongs           423         000         099         113         Stereo Gamelan Gongs           424         000         100         113         Rama Cymbal           425         000         000         114         Agogo           426         000         000         115         Steel Drums	/10	000	000					
421         000         097         113         Altair           422         000         098         113         Gamelan Gongs           423         000         099         113         Stereo Gamelan Gongs           424         000         100         113         Rama Cymbal           425         000         000         114         Agogo           426         000         000         115         Steel Drums								
422         000         098         113         Gamelan Gongs           423         000         099         113         Stereo Gamelan Gongs           424         000         100         113         Rama Cymbal           425         000         000         114         Agogo           426         000         000         115         Steel Drums								
424         000         100         113         Rama Cymbal           425         000         000         114         Agogo           426         000         000         115         Steel Drums		000	098	113	Gamelan Gongs			
425         000         000         114         Agogo           426         000         000         115         Steel Drums								
426 000 000 115 Steel Drums								
	427	000	000	115	Glass Percussion			

	Bank	Select	MIDI				
Voice No.	MSB (0–127)	LSB (0–127)	Program Change# (1–128)	Voice Name			
428	000	098	115	Thai Bells			
429	000	000	116	Woodblock			
430	000	096	116	Castanets			
431	000	000	117	Taiko Drum			
432	000	096	117	Gran Cassa			
433	000	000	118	Melodic Tom			
434 435	000	064	118	Melodic Tom 2 Real Tom			
435	000	065 066	118 118	Real form			
430	000	000	119	Synth Drum			
438	000	064	119	Analog Tom			
439	000	065	119	Electronic Percussion			
440	000	000	120	Reverse Cymbal			
			SOUND	EFFECTS			
441	000	000	121	Fret Noise			
442	000	000	122	Breath Noise			
443	000	000	123	Seashore			
444	000	000	124	Bird Tweet			
445	000	000	125	Telephone Ring			
446	000	000	126 127	Helicopter Applause			
447	000	000	127	Gunshot			
440	064	000	001	Cutting Noise			
450	064	000	002	Cutting Noise 2			
451	064	000	004	String Slap			
452	064	000	017	Flute Key Click			
453	064	000	033	Shower			
454	064	000	034	Thunder			
455	064	000	035	Wind			
456	064	000	036	Stream			
457	064	000	037	Bubble			
458	064	000	038	Feed			
459 460	064 064	000	049 050	Dog			
460	064	000	050	Horse Bird Tweet 2			
462	064	000	056	Maou			
463	064	000	065	Phone Call			
464	064	000	066	Door Squeak			
465	064	000	067	Door Slam			
466	064	000	068	Scratch Cut			
467	064	000	069	Scratch Split			
468	064	000	070	Wind Chime			
469	064	000	071	Telephone Ring 2			
470	064	000	081	Car Engine Ignition			
471 472	064 064	000	082 083	Car Tires Squeal Car Passing			
472	064	000	083	Car Crash			
473	064	000	084	Siren			
475	064	000	086	Train			
476	064	000	087	Jet Plane			
477	064	000	088	Starship			
478	064	000	089	Burst			
479	064	000	090	Roller Coaster			
480	064	000	091	Submarine			
481	064	000	097	Laugh			
482	064	000	098	Scream			
483	064	000	099	Punch			
484 485	064 064	000	100 101	Heartbeat			
485	064	000	113	Footsteps Machine Gun			
486	064	000	113	Laser Gun			
487	064	000	115	Explosion			
489	064	000	116	Firework			

The voice number with an asterisk (\*) is XGlite optional voice.

**Drum Kit List** 

- " indicates that the drum sound is the same as "Standard Kit 1".

- "Indicates that the drum sound is the same as "Standard Kit 1.
  Each percussion voice uses one note.
  The MIDI Note # and Note are actually one octave lower than keyboard Note # and Note. For example, in "117: Standard Kit 1", the "Seq Click H" (Note# 36/Note C1) corresponds to (Note# 24/Note C0).
  Key Off: Keys marked "O" stop sounding the instant they are released.
  Voices with the same Alternate Note Number (\*1 ... 4) cannot be played simultaneously. (They are designed to be played alternately with each other.)

[			Voi	ce N	o.			117	118	119	120	121	122
ļ	MSB (0-				127)		· · · ·	127/000/001	127/000/002	127/000/009	127/000/017	127/000/025	127/000/026
ł	Keyboar Note# No		Note#	IIDI No	te	Key Off	Alternate assign	Standard Kit 1	Standard Kit 2	Room Kit	Rock Kit	Electronic Kit	Analog Kit
t	25 C#	0	13	C#	-1	-	3	Surdo Mute					
ŀ	26 D 27 D#	0 0	14 15	D D#	-1 -1		3	Surdo Open Hi Q					
EO	27 D#	0	16	E	-1			Whip Slap					
F0	29 F	0	17	F	-1		4	Scratch H					
F#0	30 F# 31 G	0	18 19	F# G	-1 -1		4	Scratch L					
G0 	31 G 32 G#	0	20	G#	-1			Finger Snap Click Noise					
A0	33 A	0	21	А	-1			Metronome Click					
A#0 B0	34 A#	0	22	A#	-1			Metronome Bell					
H	35 B 36 C	0	23 24	B C	-1 0			Seq Click L Seq Click H					
C1 C#1	37 C#	1	25	C#	0			Brush Tap					
D1	38 D	1	26	D	0	0		Brush Swirl					
D#1	39 D# 40 E	1	27 28	D#	0	0		Brush Slap Brush Tap Swirl				Reverse Cymbal	Reverse Cymbal
F1	40 L 41 F	1	29	F	0	0		Snare Roll	Snare Roll 2			Tieverse Cymbai	neverse Cymbai
F#1	42 F#	1	30	F#	0			Castanet				Hi Q 2	Hi Q 2
G1	43 G	1	31	G	0			Snare Soft	Snare Soft 2		Snare Noisy	Snare Snappy Electro	Snare Noisy 4
G#1	44 G# 45 A	1	32 33	G# A	0			Sticks Kick Soft			Kick Tight 2	Kick 3	Kick Tight 2
A#1	46 A#	1	34	A#	0			Open Rim Shot	Open Rim Shot H Short	t			
B1	47 B	1	35	В	0			Kick Tight	Kick Tight Short		Kick 2	Kick Gate	Kick Analog Short
C2	48 C 49 C#	2	36 37	C C#	1			Kick Side Stick	Kick Short		Kick Gate	Kick Gate Heavy	Kick Analog Side Stick Analog
C#2	49 C# 50 D	2	37	D	1			Side Stick Snare	Snare Short	Snare Snappy	Snare Rock	Snare Noisy 2	Side Stick Analog
D#2	51 D#	2	39	D#	1			Hand Clap					0
E2	52 E	2	40	E	1			Snare Tight	Snare Tight H	Snare Tight Snappy	Snare Rock Rim	Snare Noisy 3	Snare Analog 2
F2 F#2	53 F 54 F#	2	41 42	F#	1		1	Floor Tom L Hi-Hat Closed		Tom Room 1	Tom Rock 1	Tom Electro 1	Tom Analog 1 Hi-Hat Closed Analog
G2	55 G	2	43	G	1			Floor Tom H		Tom Room 2	Tom Rock 2	Tom Electro 2	Tom Analog 2
G#2	56 G#	2	44	G#	1		1	Hi-Hat Pedal					Hi-Hat Closed Analog 2
A2	57 A 58 A#	2	45 46	A A#	1		1	Low Tom Hi-Hat Open		Tom Room 3	Tom Rock 3	Tom Electro 3	Tom Analog 3 Hi-Hat Open Analog
A#2	50 A <sub>7</sub>	2	47	B	1		'	Mid Tom L		Tom Room 4	Tom Rock 4	Tom Electro 4	Tom Analog 4
С3	60 C	3	48	С	2			Mid Tom H		Tom Room 5	Tom Rock 5	Tom Electro 5	Tom Analog 5
C#3	61 C#	3	49	C#	2			Crash Cymbal 1		Tom Doom C	Tam Dask C	Tam Floatra C	Crash Analog
D3 	62 D 63 D#	3	50 51	D D#	2			High Tom Ride Cymbal 1		Tom Room 6	Tom Rock 6	Tom Electro 6	Tom Analog 6
E3	64 E	3	52	E	2			Chinese Cymbal					
F3	65 F	3	53	F	2			Ride Cymbal Cup					
F#3	66 F# 67 G	3	54 55	F# G	2			Tambourine Splash Cymbal					
G3 	68 G#	3	56	G#	2			Cowbell					Cowbell Analog
A3	69 A	3	57	A	2			Crash Cymbal 2					
A#3	70 A# 71 B	3 3	58 59	A# B	2			Vibraslap Ride Cymbal 2					
H	71 B 72 C	4	60	C	2			Bongo H					
C#4	73 C#	4	61	C#	3			Bongo L					
D4	74 D	4	62	D	3			Conga H Mute					Conga Analog H
D#4	75 D# 76 E	4	63 64	D# E	3 3			Conga H Open Conga L					Conga Analog M Conga Analog L
-4	77 F	4	65	F	3			Timbale H					
F#4	78 F#	4	66	F#	3			Timbale L					
G#4	79 G 80 G#	4	67 68	G G#	3			Agogo H Agogo L					
- G#4 \4	80 G#	4	69	A	3			Cabasa					
A#4	82 A#	4	70	A#	3			Maracas					Maracas 2
34	83 B	4	71	В	3			Samba Whistle H					
C5 C#5	84 C 85 C#	5 5	72 73	C C#	4			Samba Whistle L Guiro Short					
D5	86 D	5	74	D	4			Guiro Long					
D#5	87 D#	5	75	D#	4			Claves					Claves 2
H	88 E 89 F	5 5	76 77	E F	4			Wood Block H Wood Block L					
-5 <b>F<b>#5</b></b>	90 F#	5	78	F#	4			Cuica Mute				Scratch H 2	Scratch H 2
G5	91 G	5	79	G	4			Cuica Open				Scratch L 2	Scratch L 3
G#5	92 G#	5	80	G#	4		2	Triangle Mute					
A5 	93 A 94 A#	5 5	81 82	A A#	4		2	Triangle Open Shaker					
35	95 B	5	83	В	4			Jingle Bells					
C6	96 C	6	84	C	5			Bell Tree					
0#0	97 C# 98 D	6 6	85 86	C# D	5 5								
D6	98 D 99 D#	6	87	D#	5				1			+	
E6	100 E	6	88	E	5								
	101 F	6	89 90	F F#	5 5								
<sup>-6</sup> F#6	102 F#	6											

	MS	B (0–12	Void 7) / LSB	e No. (0–127)	/ PC	(1–128)	117 127/000/001	123 127/000/113	124 127/000/033	125 127/000/041	126 127/000/049	127 126/000/001	128 126/000/002
	Key	board	M	IDI .	Key	Alternate	Standard Kit 1	Dance Kit	Jazz Kit	Brush Kit	Symphony Kit	SFX Kit 1	SFX Kit 2
	Note# 25	Note C# 0	Note# ) 13	Note C# -1	Off	assign 3	Surdo Mute				-,,		
	26	D 0		D -1		3	Surdo Open						
	27	D# 0		D# -1			Hi Q						
E0	28 29	E C		E -1 F -1		4	Whip Slap Scratch H						
F0 F#0	30	F# 0		F# -1		4	Scratch L						
G0	31	G 0	) 19	G -1			Finger Snap						
G#0	32	G# 0 A 0		G# -1 A -1			Click Noise Metronome Click						
A0 	33 34	A# 0		A -1 A# -1			Metronome Bell						
B0	35	B C		B -1			Seq Click L						
C1	36	C 1		C 0			Seq Click H						
D1	37 38	C# 1 D 1		C# 0 D 0	0		Brush Tap Brush Swirl						
D#1	39	D# 1		D# 0			Brush Slap						
E1	40	E 1		E 0			Brush Tap Swirl	Reverse Cymbal					
F1	41 42	F 1 F# 1		F 0 F# 0	0		Snare Roll Castanet	Hi Q 2					
	42	G 1		G 0			Snare Soft	Snare Techno	Snare Jazz H	Brush Slap 2			
G#1	44	G# 1		G# 0			Sticks						
A1	45	A 1		A 0			Kick Soft	Kick Techno Q			Kick Soft 2		
A#1 B1	46 47	A# 1 B 1		A# 0 B 0	-		Open Rim Shot Kick Tight	Rim Gate Kick Techno L			Gran Cassa		
C2	47	C 2	2 36	C 1			Kick	Kick Techno	Kick Jazz	Kick Small	Gran Cassa Mute	Cutting Noise	Phone Call
C#2	49	C# 2	2 37	C# 1			Side Stick	Side Stick Analog				Cutting Noise 2	Door Squeak
D2	50 51	D 2 D# 2	2 38	D 1 D# 1	-		Snare Hand Clan	Snare Clap	Snare Jazz L	Brush Slap 3	Band Snare	String Slop	Door Slam Scratch Cut
E2 D#2	51	D# 2 E 2		D# 1 E 1	-		Hand Clap Snare Tight	Snare Dry	Snare Jazz M	Brush Tap 2	Band Snare 2	String Slap	Scratch H 3
F2	53	F 2	2 41	F 1			Floor Tom L	Tom Analog 1	Tom Jazz 1	Tom Brush 1	Tom Jazz 1		Wind Chime
F#2	54	F# 2	2 42	F# 1		1	Hi-Hat Closed	Hi-Hat Closed Analog3			-		Telephone Ring 2
G2 G#2	55 56	G 2 G# 2	2 43 2 44	G 1 G# 1		1	Floor Tom H Hi-Hat Pedal	Tom Analog 2 Hi-Hat Closed Analog 4	Tom Jazz 2	Tom Brush 2	Tom Jazz 2		
A2	57	A 2	2 45	A 1			Low Tom	Tom Analog 3	Tom Jazz 3	Tom Brush 3	Tom Jazz 3		
A#2	58	A# 2	2 46	A# 1		1	Hi-Hat Open	Hi-Hat Open Analog 2					
B2	59 60	B 2 C 3	2 47	B 1 C 2			Mid Tom L	Tom Analog 4 Tom Analog 5	Tom Jazz 4	Tom Brush 4			
C3 C#3	61	C 3 C# 3	8 48 8 49	C 2 C# 2			Mid Tom H Crash Cymbal 1	Crash Analog	Tom Jazz 5	Tom Brush 5	Hand Cymbal		
D3	62	D 3	3 50	D 2			High Tom	Tom Analog 6	Tom Jazz 6	Tom Brush 6	Tom Jazz 6		
E3	63	D# 3		D# 2			Ride Cymbal 1				Hand Cymbal Short		
	64 65	E 3 F 3		E 2 F 2			Chinese Cymbal Ride Cymbal Cup					Flute Key Click	Car Engine Ignition Car Tires Squeal
F3 F#3	66	F# 3	3 54	F# 2			Tambourine						Car Passing
G3	67	G 3	3 55	G 2			Splash Cymbal						Car Crash
G#3	68	G# 3 A 3		G# 2 A 2			Cowbell Crash Cymbal 2	Cowbell Analog					Siren
A3 A#3	69 70	A# 3		A# 2			Vibraslap				Hand Cymbal 2		Train Jet Plane
B3	71	B 3	3 59	B 2			Ride Cymbal 2				Hand Cymbal 2 Short		Starship
C4	72	C 4		C 3 C# 3			Bongo H						Burst
C#4	73 74	C# 4 D 4		C# 3 D 3			Bongo L Conga H Mute	Conga Analog H					Roller Coaster Submarine
D#4	75	D# 4	63	D# 3			Conga H Open	Conga Analog M					
E4	76	E 4	64	E 3			Conga L	Conga Analog L					
F4 F#4	77 78	F 4 F# 4		F 3 F# 3			Timbale H Timbale L						
G4	79	G 4		G 3			Agogo H					<u> </u>	
G#4	80	G# 4	68	G# 3			Agogo L					Shower	Laugh
A4	81 82	A 4 A# 4		A 3 A# 3			Cabasa Maracas	Maracas 2				Thunder	Scream Punch
B4 A#4	82	A# 4 B 4		A# 3 B 3			Samba Whistle H	iviai acas 2				Wind Stream	Heartbeat
	84	C 5	5 72	C 4	0		Samba Whistle L					Bubble	Footsteps
C5 C#5	85	C# 5		C# 4			Guiro Short					Feed	
D5	86 87	D 5 D# 5		D 4 D# 4			Guiro Long Claves	Claves 2					
E5 D#5	88	E 5		E 4			Wood Block H	SATURE L					
F5	89	F 5	5 77	F 4			Wood Block L						
1 #3	90	F# 5	5 78	F# 4			Cuica Mute	Scratch H 2					
G5 G#5	91 92	G 5 G# 5		G 4 G# 4		2	Cuica Open Triangle Mute	Scratch L 3					
A5	93	A 5	5 81	A 4		2	Triangle Open						
B5 A#5	94	A# 5	5 82	A# 4			Shaker						
BD	95 96	B 5 C 6		B 4 C 5			Jingle Bells Bell Tree					Dog	Machine Gun
C6 C#6	96	C# 6		C# 5								Horse	Laser Gun
D6	98	D 6	86	D 5								Bird Tweet 2	Explosion
E6 D#6	99	D# 6		D# 5									Firework
	100	E 6		E 5 F 5									
F6 F#6	102	F# 6	6 90	F# 5									
G6	103	G 6	6 91	G 5								Maou	

# Style List

Style No.	Style Name
	8BEAT
001	8BeatModern
002	Cool8Beat
003	60'sGuitarPop
004	8BeatAdria
005	60's8Beat
006	BubblegumPop
007	BritPopSwing
008	8Beat
009	OffBeat
010	60'sRock
011	HardRock
012	RockShuffle
013	8BeatRock
	16BEAT
014	16Beat
015	PopShuffle1
016	PopShuffle2
017	GuitarPop
018	16BeatUptempo
019	KoolShuffle
020	JazzRock
021	HipHopLight
	BALLAD
022	PianoBallad
023	LoveSong
024	6/8ModernEP
025	6/8SlowRock
026	6/8OrchBallad
027	OrganBallad
028	PopBallad
029	16BeatBallad1
030	16BeatBallad2
	DANCE
031	EuroTrance
032	Ibiza
033	DreamDance
034	HouseMusik
035	SwingHouse
036	TechnoPolis
037	Clubdance
038	ClubLatin
039	Garage1
040	Garage2
040	TechnoParty
042	UKPop
043	HipHopGroove
043	HipShuffle
044	HipHopPop
0+0	DISCO
046	70'sDisco1
040	70'sDisco2
047	LatinDisco
048	DiscoPhilly
049	SaturdayNight
050	DiscoChocolate
051	DiscoHands
032	

Style No.	Style Name
-	SWING&JAZZ
053	BigBandFast
054	BigBandMedium
055	BigBandBallad
056	BigBandShuffle
057	JazzClub
058	Swing1
059	Swing2
060	OrchestraSwing
061	Five/Four
062	JazzBallad
063	Dixieland
064	Ragtime
065	AfroCuban
066	Charleston
000	R&B
067	Soul
068	DetroitPop1 60'sRock&Roll
069	
070	6/8Soul
071	CrocoTwist
072	Rock&Roll
073	DetroitPop2
074	BoogieWoogie
075	ComboBoogie
076	6/8Blues
	COUNTRY
077	Country8Beat
078	CountryPop
079	CountrySwing
080	CountryBallad
081	Country2/4
082	CowboyBoogie
083	CountryShuffle
084	Bluegrass
	LATIN
085	BrazilianSamba
086	BossaNova
087	PopBossa
088	Tijuana
089	DiscoLatin
090	Mambo
091	Salsa
092	Beguine
093	GuitarRumba
094	RumbaFlamenco
095	Rumbalsland
096	Reggae
	BALLROOM
097	VienneseWaltz
098	EnglishWaltz
099	Slowfox
100	Foxtrot
100	Quickstep
101	Tango
102	Pasodoble
103	Samba
104	Jailiba

Ctule Ne	Chulo Nome
Style No.	Style Name
105	ChaChaCha
106	Rumba
107	Jive
100	TRADITIONAL
108	USMarch
109	6/8March
110	GermanMarch
111	PolkaPop
112	OberPolka
113	Tarantella
114	Showtune
115	ChristmasSwing
116	ChristmasWaltz
117	ScottishReel
118	Hawaiian
	WALTZ
119	ItalianWaltz
120	MariachiWaltz
121	GuitarSerenade
122	SwingWaltz
123	JazzWaltz1
124	JazzWaltz2
125	CountryWaltz
126	OberWaltzer
127	Musette
	CHILDREN
128	Learning2/4
129	Learning4/4
130	Learning6/8
131	Fun 3/4
132	Fun 4/4
	PIANIST
133	Stride
134	PianoBlues1
135	PianoBlues2
136	PianoRag
137	PianoRock&Roll
138	PianoBoogie
139	PianoJazzWaltz
140	PianoJazzBld
141	Arpeggio
142	Musical
143	Habanera
144	SlowRock
145	8BtPianoBallad
146	PianoMarch
147	6/8PianoMarch
148	PianoWaltz
149	PianoBeguine
150	PianoSwing
	-

# **Music Database List**

MDB No.	Song Name	MDB No.	Song Name	MDB No.	Song Name	MDB No.	Song Name
001	POP AlvFever	067	BI Bayou	135	WhatsNew	201	NxtAlice
001		068	CatMemry	136	Wild Cat	202	PalomaFl
002	CoinLane	069	CavaSolo			203	Tijuana
003	Croco Rk	070	E Weiss	137	BlackFst	204	Why MCA?
004	DayPdise	071	ElizSere	138	ByeBlues		LLROOM
005	DwnTown	072	ElvGhett	139	CaliBlue	205	BrazilBr
006	EasySday	073	Feeling	140	CiaoCpri	206	CherryTp
007	GoMyWay	074	Fly Away	141	Close2U	207	DanubeWv
008	HowDeep!	075	Fnl Date	142	DAmorStr	208	MantoStr
009	HurryLuv	076	GreenSlv	143	DolanesM	209	SandmnFx
010	I breath	077	GtCncert	144	ElCondor	210	SpainTwn
011	l'IBTher	078	HrdToSay	145	Entrtain	211	SundyNvr
012	I'm Torn	079	LonlyPan	146	Frippers	212	TangoAc
013	Imagine	080	MBoxDnce	147	LoveLove	213	Tea4Two
014	ISurvive	081	Mn Rivr	148	LuckySax	214	TulipWtz
015	JustCall	082	My Song	149	LuvStory	215	YesSirQk
016	JustWay	083	NorwWood	150	MyPrince		
017	LeadPack	084	OnMyMnd	151	OSoleMio	216	AlpenTri
018	LoveFeel	085	OverRbow	152	PupetStr	217	AnchorAw
019	LoveMeT	086	Red Lady	153	Raindrop	218	Balalaik
020	LveMeDo	087	ReleseMe	154	RedMouln	219	BlkSheep
021	Mi Shell	088	SavingLv	155	R'ticGtr	220	CampRace
022	My Baby	089	Shore Cl	156	Schiwago	221	Ceilidh
023	NikitTrp	090	SierraMd	157	ShadowGt	222	Cielito
024	NoMatter	091	SilverMn	158	SingRain	223	CielPari
025	ProudGtr	092	SmokyEye	159	SmallWld	224	CI Polka
026	RainOnMe	093	SndOfSil	160	SpkSoft	225	Comrades
027	SailngSx	094	SumerPlc	161	SpnishEy	226	DAmorCl
028	SeeAgain	095	TblWater	162	StrangeN	227	FrogSong
029	Sept.Pop	096	WhereLov	163	TieRibbn	228	Funiculi
030	SultanSw	097	WhisprSx	164	TimeGoes	229	GrndClok
031	SweetLrd	098	WomanLov	165	WhteXmas	230	HappyPlk
032	ThnkMsic		R&B	166	WishStar	231	Herzlin
033	TitanicH	099	AmazingG	167	WonderN	232	HornPipe
034	UNeedLv	100	BoogiePf	168	WondrWld	233	JacknJil
035	UptnGirl	101	Clock Rk		LATIN	234	JinglBel
036	WantToBe	102	CU later	169	BambaLa	235	Kufstein
037	WatchGrl	103	GreenDor	170	BeHappy!	236	MexiHat
038	WhatALoo	104	HappyDay	171	CopaLola	237	MickMrch
039	WhitePle	105	JohnnyB	172	DayNight	238	RkABaby
040	Woman	106	MercySax	173	Ipanema	239	RIBarrel
041	YelowSub	107	RisingSn	174	JamboMbo	240	Showbiz
042	Yesterdy	108	S Preems	175	MarinaAc	241	SnowWtz
	ROCK	109	SuperStv	176	MuchoTrp	242	StarMrch
043	DavAgain	110	TeddyBer	177	SmoothLt	243	WashPost
044	JumpRock	111	Yeh Orgn	178	SunOfLif	244	WdCuttrs
045	OyComCha		NG & JAZZ	179	Sunshine	245	XmasWalz
046	PickUpPc	112	Alex Rag	180	Tico Org	246	YankDood
047	RdRiverR	113	Blue Set	181	TrbWave		PIANIST
048	SatsfyGt	114	ChooChoo		OUNTRY	247	CatMemry
049	Sheriff	115	DayOfW&R	182	ABitMore	248	DoReMi
050	SmokeWtr	116	HighMoon	183	BlownWnd	249	Entrtain
051	TwistAgn	117	InMood	184	Bonanza	250	Extra
052	VenusPop	118	MisJones	185	BoxerFlt	251	Favorite
	DANCE	119	MistySax	186	CntryRds	252	FineRmce
053	2 of Us	120	MoonLit	187	GreenGrs	253	Foggy
054	B Leave	121	New York	188	Jambala	254	I Woman
055	Back St	122	PanthrSw	189	LondonSt	255	JBGood
056	Crockett	123	PetiteCl	190	LooseEL	256	NitTrain
057	DsrtRose	124	RedRoses	191	TopWorld	257	Obaladi
058	FunkyTwn	125	SaintMch	192	YlwRose	258	OldHouse
059	Kids	126	SatinDll			259	PubPiano
060	KillSoft	127	SF Heart	193	AlhHwaii	260	RinSpain
061	Nine PM	128	ShearJz	194	Babylon	261	Sera
062	SingBack	129	SplnkyBr	195	Barbados	262	ShookUp
063	StrandD	130	SunnySde	196	DnceBird	263	Swonder
	BALLAD	131	TstHoney	197	FestaMex	264	TedPicnc
064	AdelineB	132	Tunisia	198	HandsPty	265	Twirler
065	ArgenCry	133	TwoFoot5	199	LuvTheme	266	WayWere
066	BeautBdy	134	USPatrol	200	ModrnTlk	267	YesterPf

File Name	Song Name	Composer
001Nutcr.mid	Danse des Mirlitons from "The Nutcracker"	P.I. Tchaikovsky
002Orphe.mid	"Orphée aux Enfers" Ouverture	J. Offenbach
003Slavo.mid	Slavonic Dances op.72-2	A. Dvořák
004Prima.mid	La Primavera (from Le Quattro Stagioni)	A. Vivaldi
005Medit.mid	Méditation (Thaïs)	J. Massenet
006Guill.mid	Guillaume Tell	G. Rossini
007Fruhl.mid	Frühlingslied	F. Mendelssohn
008Ungar.mid	Ungarische Tänze Nr.5	J. Brahms
009Fruhl.mid	Fruhlingsstimmen	J. Strauss II
010Dolly.mid	Dolly's Dreaming and Awakening	T.Oesten
011Cande.mid	La Candeur	J.F.Burgmüller
012Arabe.mid	Arabesque	J.F.Burgmüller
013Pasto.mid	Pastorale	J.F.Burgmüller
014Petit.mid	Petite Réunion	J.F.Burgmüller
015Innoc.mid	Innocence	J.F.Burgmüller
016Progr.mid	Progrès	J.F.Burgmüller
017Taren.mid	Tarentelle	J.F.Burgmüller
018Cheva.mid	La Chevaleresque	J.F.Burgmüller
019Etude.mid	Etude op.10-3 "Chanson de l'adieu"	F.Chopin
020Marci.mid	Marcia alla Turca	L.v. Beethoven
021Turki.mid	Turkish March	W.A. Mozart
022Valse.mid	Valse op.64-1 "Petit Chien"	F.Chopin
023Menue.mid	Menuett	L. Boccherini
024Momen.mid	Moments Musicaux op.94-3	F. Schubert
025Enter.mid	The Entertainer	S. Joplin
026Prelu.mid	Prelude (Wohltemperierte Klavier 1-1)	J.S. Bach
027Violl.mid	La Viollette	L.Streabbog
028Angel.mid	Angels Serenade	Traditional
029Saraf.mid	Krasnyi Sarafan	Traditional
030Ameri.mid	America the Beautiful	S.A. Ward
031Brown.mid	Little Brown Jug	Traditional
032Lomon.mid	Loch Lomond	Traditional
033Bonni.mid	My Bonnie	Traditional
034Londo.mid	Londonderry Air	Traditional
035Banjo.mid	Ring de Banjo	S.C. Foster
036Vogle.mid	Wenn ich ein Vöglein wär ?	Traditional
037Lorel.mid	Die Lorelei	F. Silcher
037E0rei.mid	Funiculi Funicula	L. Denza
039Turke.mid	Turkey in the Straw	Traditional
040Campt.mid	Camptown Races	S.C. Foster
041Jingl.mid	Jingle Bells	J.S. Pierpont
042Muss.mid	Muss i denn	F. Silcher
043Liebe.mid	Liebesträume Nr.3	F. Liszt
044Jesu.mid	Jesu, Joy Of Man's Desiring	J.S. Bach
045Joy.mid	Ode to Joy	L.v. Beethoven
046Pearl.mid	Pearl Fisher	G. Bizet
047Gavot.mid	Gavotte	F.J. Gossec
048Seren.mid	Serenade/Haydn	F.J. Haydn
049Menue.mid	Menuett BWV. Anh.114	J.S. Bach
050Canon.mid	Canon in D	J. Pachelbel
051Vogel.mid	Der Vogelfanger Bin Ich Ja "Die Xauberflote"	W.A Mozart
052Piano.mid	Piano Sonate No.14 op.27-2 "Mondschein"	L.v. Beethoven
053Surpr.mid	The "Surprise" Symphony No.94	F.J. Haydn
054WildR.mid	To a Wild Rose	E.A. MacDowell
055Chans.mid	Chanson du Toreador	G. Bizet
056Babbi.mid	O Mio Babbino Caro	G. Puccini
057RowRo.mid	Row Row Row Your Boat (DUET)	Traditional
058Smoky.mid	On Top of Old Smoky (DUET)	Traditional
059WeWis.mid	We Wish You A Merry Christmas (DUET)	Traditional
060ImMai.mid	Im Mai (DUET)	Traditional
061Chris.mid	O Christmas Tree (DUET)	Traditional
062MaryH.mid	Mary Had a Little Lamb (DUET)	Traditional
063TenLi.mid	Ten Little Indians (DUET)	Septimus Winner
064PopGo.mid	Pop Goes The Weasel (DUET)	Traditional
065Twink.mid	Twinkle Twinkle Little Star (DUET)	Traditional
066Close.mid	Close Your Hands, Open Your Hands (DUET)	J.J. Rousseau
067Cucko.mid	The Cuckoo (DUET)	Traditional
068Augus.mid	O du lieber Augustin (DUET)	Traditional
069Londo.mid	London Bridge (DUET)	Traditional
		L L L L L L L L L L L L L L L L L L L

The easy song arranger can only be used with songs that include chord data.

## • Harmony Types

No.	Harmony Type	Description
01	Duet	Harmony types 01–05 are pitch-based and add one-, two- or three-note harmonies to the sin- gle-note melody played in the right hand. These types sound when chords are played in the
02	Trio	auto accompaniment range of the keyboard. These Harmony types will also work when playing
03	Block	songs that contain chord data.
04	Country	_
05	Octave	
06	Trill 1/4 note	Types 6–26 are rhythm-based effects and add embellishments or delayed repeats in time with the auto accompaniment. These types sound whether the auto accompani-
07	Trill 1/6 note	ment is on or not; however, the actual speed of the effect depends on the Tempo set- ting (page 35). The individual note values in each type let you synchronize the effect precisely to the rhythm. Triplet settings are also available: 1/6 = quarter-note triplets,
08	Trill 1/8 note	1/12 = eighth-note triplets, 1/24 = sixteenth-note triplets.
09	Trill 1/12 note	notes are held.
10	Trill 1/16 note	• The Tremolo effect Types (13–19) repeat all held notes (up to four).     • The Echo effect Types (20–26) create delayed repeats of each note played.
11	Trill 1/24 note	
12	Trill 1/32 note	▶.
13	Tremolo 1/4 note	
14	Tremolo 1/6 note	
15	Tremolo 1/8 note	
16	Tremolo 1/12 note	
17	Tremolo 1/16 note	<u></u>
18	Tremolo 1/24 note	
19	Tremolo 1/32 note	▶.
20	Echo 1/4 note	
21	Echo 1/6 note	
22	Echo 1/8 note	<b>)</b>
23	Echo 1/12 note	
24	Echo 1/16 note	<u></u>
25	Echo 1/24 note	
26	Echo 1/32 note	<u>▶</u>

# • Reverb Types

No.	Reverb Type	Description
01–03	Hall 1–3	Concert hall reverb.
04–05	Room 1–2	Small room reverb.
06–07	Stage 1–2	Reverb for solo instruments.
08–09	Plate 1–2	Simulated steel plate reverb.
10	Off	No effect.

## • Chorus Types

No.	Chorus Type	Description
01–02	Chorus 1–2	Conventional chorus program with rich, warm chorusing.
03–04	Flanger 1–2	Pronounced three-phase modulation with a slight metallic sound.
05	Off	No effect.

YAMAHA Model	[ Portable Gr DGX-220/YPG-22	and ] 5 MIDI	Implementation Chart	Date:17-NOV-2005 Version:1.0
Fun	Function	Transmitted	Recognized	Remarks
Basic Channel	Default Changed	1 - 16 x	1 - 16 x	
Mode	Default Messages Altered	S X *********	εx	
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 Touch	Key's Ch's	x x	x	
Pitch Bend	Ŋ	o 0-24 semi	o 0-24 semi	
Control Change	$\begin{array}{c} 1, 11, 84\\ 1, 11, 84\\ 6, 38\\ 7, 10\\ 7, 10\\ 7, 10\\ 72\\ 71\\ 72\\ 72\\ 72\\ 73\\ 72\\ 72\\ 72\\ 72\\ 73\\ 72\\ 72\\ 72\\ 72\\ 72\\ 72\\ 72\\ 72\\ 72\\ 72$	0×000×0×0×0	000000000000	Bank Select Data Entry Sustain Harmonic Content Release Time Attack Time Brightness Effect Depth RPN Inc, Dec RPN LSB, MSB

# **MIDI** Implementation Chart

Prog Change : True #	0 0 - 127 **********	o 0 - 127	
System Exclusive	0	0	
: Song Pos. Common : Song Sel. : Tune	XXX	x x x	
System :Clock Real Time:Commands	0 0	0 0	
Aux :All Sound OFF :Reset All Cntrls :Local ON/OFF :All Notes OFF Mes- :Active Sense sages:Reset	× × × × o ×	o(120,126,127) o(121) o(122) o(123-125) x	

	ONOM, NO	OMNI OFF, MONO
	INMO	INMO
	••	••
	$\sim$	4
	Mode 2 :	Mode 4 :
on page 112.	, ΡΟΓΥ	POLY
ЧO	, NO	OFF,
*1 Refer to #2	OMNI ON ,	Mode 3 : OMNI OFF,
Ч	••	••
μÛ	$\vdash$	Μ
*1 Re	Mode 1 : (	Mode

Yes No

.. .. o x **MIDI** Implementation Chart



# **MIDI** Data Format

#### NOTE:

- 1 By default (factory settings) the instrument ordinarily functions as a 16-channel multi-timbral tone generator, and incoming data does not affect the panel voices or panel settings. However, the MIDI messages listed below do affect the panel voices, auto accompaniment, and songs.
  - MIDI Master Tuning
  - System exclusive messages for changing the Reverb Type and Chorus Type.
- 2 Messages for these control change numbers cannot be transmitted from the instrument itself. However, they may be transmitted when playing the accompaniment, song or using the Harmony effect.
- 3 Exclusive
  - <GM System ON> F0H, 7EH, 7FH, 09H, 01H, F7H
  - This message automatically restores all default settings for the instrument, with the exception of MIDI Master Tuning.
  - <MIDI Master Volume> F0H, 7FH, 7FH, 04H, 01H, II, mm, F7H • This message allows the volume of all channels to be
  - changed simultaneously (Universal System Exclusive).
    The values of "mm" is used for MIDI Master Volume. (Values for "II" are ignored.)

<MIDI Master Tuning> F0H, 43H, 1nH, 27H, 30H, 00H, 00H, mm, II, cc, F7H

- This message simultaneously changes the tuning value of all channels.
- The values of "mm" and "ll" are used for MIDI Master Tuning.
   The default value of "mm" and "ll" are 08H and 00H, respec-
- tively. Any values can be used for "n" and "cc".

<Reverb Type> F0H, 43H, 1nH, 4CH, 02H, 01H, 00H, mmH, IIH, F7H

- mm : Reverb Type MSB
- II : Reverb Type LSB

Refer to the Effect Map (page 112) for details.

<Chorus Type> F0H, 43H, 1nH, 4CH, 02H, 01H, 20H, mmH, IIH, F7H

• mm : Chorus Type MSB

• II : Chorus Type LSB Pater to the Effect Map (page 112) for dr

- Refer to the Effect Map (page 112) for details.
- 4 When the accompaniment is started, an FAH message is transmitted. When accompaniment is stopped, an FCH message is transmitted. When the clock is set to External, both FAH (accompaniment start) and FCH (accompaniment stop) are recognized.
- 5 Local ON/OFF <Local ON> Bn, 7A, 7F <Local OFF> Bn, 7A, 00 Value for "n" is ignored.

# Effect map

- \* When a Type LSB value is received that corresponds to no effect type, a value corresponding to the effect type (coming the closest to the specified value) is automatically set.
- \* The numbers in parentheses in front of the Effect Type names correspond to the number indicated in the display.

## REVERB

TYPE					TYPE LSB				
MSB	00	01	02	08	16	17	18	19	20
000	No Effect								
001	(01)Hall1				(02)Hall2	(03)Hall3			
002	Room					(04)Room1		(05)Room2	
003	Stage				(06)Stage1	(07)Stage2			
004	Plate				(08)Plate1	(09)Plate2			
005127	No Effect								

## • CHORUS

TYPE					TYPE LSB				
MSB	00	01	02	08	16	17	18	19	20
000063	No Effect								
064	Thru								
065	Chorus		(02)Chorus2						
066	Celeste					(01)Chorus1			
067	Flanger			(03)Flanger1		(04)Flanger2			
068127	No Effect								



# **Specifications**

#### **Keyboards**

• 76 box type keys (E0–G6), with Touch Response.

#### Display

· LCD display (backlit)

### Setup

- STANDBY/ON
- MASTER VOLUME: MIN-MAX

### **Panel Controls**

• SONG, VOICE, STYLE, EASY SONG ARRANGER, P.A.T. ON/OFF, LESSON L, LESSON R, LESSON START, METRONOME ON/OFF, PORTABLE GRAND, DEMO, FUNCTION, MUSIC DATABASE, HARMONY ON/ OFF, DUAL ON/OFF, SPLIT ON/OFF, TEMPO/TAP, [0]– [9], [+], [-], CATEGORY, Dial, REPEAT & LEARN (ACMP ON/OFF), A-B REPEAT (INTRO/ENDING/rit.), PAUSE (SYNC START), START/STOP, REW (MAIN/AUTO FILL), FF (SYNC STOP), REGIST MEMORY ([MEMORY/BANK], [1], [2]), SONG MEMORY (REC, [1]–[5], [A])

### **Realtime Control**

· Pitch Bend Wheel

#### Voice

- 116 panel voices + 12 drum/SFX kits + 361 XGlite voices
- Polyphony: 32
- DUAL
   SPLIT

### Style

- 150 Preset Styles + 1 User Style File
- Style Control: ACMP ON/OFF, SYNC STOP
  - SYNC START, START/STOP,
    - INTRO/ENDING/rit., MAIN/AUTO FILL
- Fingering: Multi Finger, Full Keyboard
- Style Volume
- **Music Database** 
  - 267

#### **Education Feature**

- Dictionary
- · Lesson 1-3, Repeat & Learn

#### **Registration Memory**

· 8 banks x 2 types

#### Function

- VOLUME: Style Volume, Song Volume • OVERALL: Tuning, Transpose, Split Point, Touch Sensitivity, Pitch Bend Range, Chord Fingering MAIN VOICE: Volume, Octave, Pan, Reverb Level, Chorus Level • DUAL VOICE: Voice, Volume, Octave, Pan, Reverb Level, Chorus Level SPLIT VOICE: Voice, Volume, Octave, Pan, Reverb Level, Chorus Level • EFFECT: Reverb Type, Chorus Type, Master EQ Type, Sustain • HARMONY: Harmony Type, Harmony Volume · Performance assistant technology: Performance assistant technology Type · SFF Load: Style File Load • PC: PC Mode • MIDI: Local On/Off, External Clock, Initial Send, Keyboard Out, Style Out, Song Out • METRONOME: Time Signature Numerator, Time Signature Denominator, Metronome Volume · LESSON: Lesson Track (R), Lesson Track (L), Grade
- UTILITY: Demo Cancel

### Effects

- Reverb: 9 types
- Chorus: 4 types
- Harmony: 26 types

#### Song

- 30 Preset Songs + 5 User Songs + Accessory CD-ROM Songs (70)
- · Song Clear, Track Clear
- Song Volume
- Song Control: REPEAT & LEARN, A-B REPEAT, PAUSE, REW, FF, START/STOP

#### Performance assistant technology

# Chord, Chord/Free

## Recording

 Song User Song: 5 Songs Recording Tracks: 1, 2, 3, 4, 5, STYLE

#### MIDI

- Local On/Off Initial Send External Clock
- Keyboard Out
   Style Out
   Song Out

#### Auxiliary jacks

• PHONES/OUTPUT, DC IN 12V, USB, SUSTAIN

## Amplifier

• 6W + 6W

#### Speakers

• 12cm x 2 + 3cm x 2

#### **Power Consumption**

• 20W

## **Power Supply**

- Adaptor: Yamaha PA-5D AC power adaptor
- · Batteries: Six "D" size, R20P (LR20) or equivalent batteries

#### Dimensions (W x D x H)

• 1,178 x 412 x 137 mm (46-3/8" x 16-1/4" x 5-3/8")

#### Weight

• 8.3kg (18 lbs. 5 oz.) (not including batteries)

#### **Supplied Accessories**

- Music Rest
- Accessory CD-ROM
- Owner's Manual

#### Optional Accessories

• AC Power Adaptor:	PA-5D
Footswitch:	FC4/FC5
<ul> <li>Keyboard Stand:</li> </ul>	LW-16
<ul> <li>Headphones:</li> </ul>	HPE-150

\* 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 with your Yamaha dealer.

# Panel controls and terminals

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# 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:

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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 2 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.

Serial #

Model

(Retailer)

Purchased from

Date

Sales Slip #\_\_\_\_

YAMAHA CORPORATION OF AMERICA **Electronic Service Division** 6600 Orangethorpe Avenue

Buena Park, CA 90620

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#### POLAND

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