



# PORTATONE **EZ-30**

## *Owner's Manual*



## SPECIAL MESSAGE SECTION

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

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

### SPECIFICATIONS SUBJECT TO CHANGE:

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

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

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

### NOTICE:

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

### ENVIRONMENTAL ISSUES:

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

### Battery Notice:

This product MAY contain a small non-rechargeable battery which (if applicable) is soldered in place. The average life span of this type of battery is approximately five years. When replacement becomes

necessary, contact a qualified service representative to perform the replacement.

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

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

### Warning:

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

### Disposal Notice:

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

### NAME PLATE LOCATION:

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

Model \_\_\_\_\_

Serial No. \_\_\_\_\_

Purchase Date \_\_\_\_\_

92-BP (bottom)

## PLEASE KEEP THIS MANUAL

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

### 1. IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!

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

### 2. IMPORTANT:

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

### 3. NOTE:

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

guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

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

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

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to coaxial 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 är ansluten till vägguttaget, även om själva apparaten har stängts av.

**ADVARSEL:** Netspændingen til dette apparat er IKKE afbrudt, så længe netledningen sidder i en stikkontakt, som er t endt — også selvom der er slukket på apparatets afbryder.

**VAROITUS:** Laitteen toisiopiiriin kytketty käyttökytin ei irroita koko laitetta verkosta.

(standby)

# 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:

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

### **CAUTION**

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

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

#### ■ DATA BACK-UP AND STORAGE

- Yamaha recommends that you regularly save data using an external device such as the floppy disk-based Yamaha MIDI data filer MDF3, and storing the floppy disks in a safe, cool, dry place. **YAMAHA CANNOT BE HELD RESPONSIBLE FOR THE ACCIDENTAL LOSS OF IMPORTANT MUSIC DATA!** Regarding the data you have created, as long as fresh batteries are inserted in (or an AC power adaptor is connected to) the instrument, the data will be retained, even when the power is turned off. It will also be retained long enough to exchange an old set of batteries for a new set. If you have important data in the instrument which you don't want to lose, please take care to keep fresh batteries inserted in (or keep an AC power adaptor connected to) the instrument, and to regularly save data.

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

Always turn the power off when the instrument is not in use.  
Make sure to discard used batteries according to local regulations.

Congratulations on your purchase of the Yamaha EZ-30 PortaTone!

You now own a portable keyboard that combines advanced functions, great sound and exceptional ease-of-use in a highly compact package. Its outstanding features also make it a remarkably expressive and versatile instrument.

Read this Owner's Manual carefully while playing your new EZ-30 in order to take full advantage of its various features.

## Main Features

The EZ-30 is a sophisticated yet easy-to-use keyboard with the following features and functions:



### Yamaha Education Suite

The EZ-30 features the new Yamaha Education Suite - a set of learning tools that utilize the latest technology to make studying and practicing music more fun and fulfilling than ever before!

#### The Yamaha Education Suite includes:

- **Lesson ..... page 34**  
The convenient and easy-to-use Lesson feature guides you through the parts of a song - just like a patient teacher! Select from any one of 100 songs on the EZ-30, and learn the left- and right-hand parts independently at first, then together. Lesson features three easy steps that help you master each song: Timing, Waiting and Minus One.
- **Grade & Talking ..... pages 37 and 38**  
The EZ-30 also has the Grade and Talking features. Grade is a virtual "teacher," evaluating your practice sessions and rating your performance. The convenient Talking function "announces" each Lesson step and your "grades," among other things.
- **Dictionary ..... page 58**  
Dictionary is a built-in "chord encyclopedia" that teaches you how to play specific chords by showing you the appropriate notes in the display - perfect for when you know the name of a chord and want to quickly learn how to play it!
- **Lighting ..... page 32**  
When you are using the Lesson feature or Dictionary, the key indicators tell you which keys to play. Also, during song playback, they show the keys that are playing.
- **ABC/DoReMi..... page 43**  
The EZ-30 sings the melody using "A, B, C..." or "DoReMi." Also, while you are using the Lesson function, the EZ-30 guides you by singing a note ahead using "A, B, C" or "DoReMi."



## **Portable Grand ..... page 39**

The EZ-30 also has a Portable Grand function for realistic piano performance. Pressing the [PORTABLE GRAND] button instantly calls up the stunningly authentic “Stereo Sampled Piano” voice and configures the entire EZ-30 for optimum piano play. Special Pianist styles and songs - with piano-only accompaniment - are also provided.

## **Flash Memory ..... page 71**

The EZ-30, when connected to a personal computer, can load song data (purchased via internet) into the internal flash memory. You can use this song data along with the Lesson function. Also, the song data will be retained, even when the AC power adaptor and batteries are removed from the EZ-30.

### **Other powerful features include:**

- ◆ 61 keys with a **Touch Response** mechanism that enables you to express subtle nuances through various playing techniques.
- ◆ A total of **610 various high-quality voices** (including 480 Expanded voices), with a maximum polyphony of 32 voices.
- ◆ High-quality **Reverb, DSP, and Harmony effects** for enhancing the sound of the voices - and your performance.
- ◆ **106 auto accompaniment styles**, each with Intro, Main A and B, and Ending sections. An Auto Fill function adds dynamic fills when switching sections.
- ◆ Powerful, easy-to-use **song recording** operations, for recording and playing back up to five of your original songs.
- ◆ **Registration Memory** presets for storing all of the EZ-30’s panel settings to a single button for instant and automatic recall.
- ◆ **One Touch Setting** function for automatically calling up an appropriate voice to match the style or song you select.
- ◆ Full MIDI and **General MIDI (GM) compatibility**, letting you easily integrate the EZ-30 into a MIDI music system, and use the built-in Expanded voices with all GM software.

\* 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.

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# Setting Up

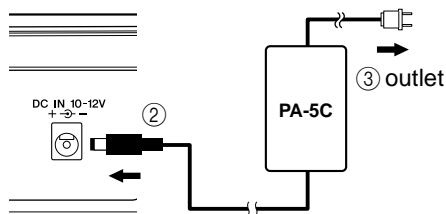
## Power Requirements

Although the EZ-30 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.

### ■ Using an AC Power Adaptor

Use of an AC power adaptor is recommended, especially when you use the EZ-30 for a long period of time.

- ① Make sure that the [STANDBY/ON] switch of the EZ-30 is set to STANDBY.
- ② Connect one end of the adaptor to the **DC IN 10-12V** jack on the rear panel of your EZ-30.
- ③ Connect the other end to a suitable electrical outlet.



### ⚠ WARNING

Use **ONLY** a Yamaha PA-5C AC Power Adaptor (or other adaptor specifically recommended by Yamaha) to power your instrument from the AC mains. The use of other adaptors may result in irreparable damage to both the adaptor and the EZ-30.

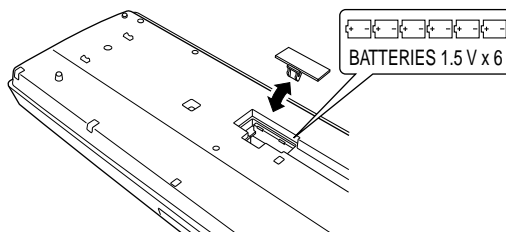
### ⚠ CAUTION

Unplug the AC Power Adaptor when not using the EZ-30, or during electrical storms.

### ■ Using Batteries

- ① Turn the instrument upside-down and remove the battery compartment lid.

- ② Insert six 1.5-volt “D” size, R20P (LR20) or equivalent batteries as shown in the illustration, making sure that the positive and negative terminals are properly aligned.
- ③ Replace the lid.



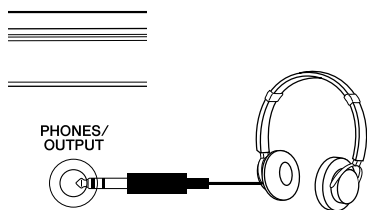
Replace the batteries before they completely discharge. If the battery voltage gets low, the volume level may be reduced, sound integrity may deteriorate, the display indicators may disappear, or the stored data may be deleted. If any of these events occur, replace the battery, heeding the cautions described below.

### ⚠ CAUTION

- Insert the batteries in the correct direction, making sure that the positive and negative terminals of the batteries match the label. If the orientation does not match the label, the batteries may generate heat, cause a fire, or leak.
- Never mix old and new batteries or different types of batteries (e.g., alkaline and manganese).
- To prevent possible damage from battery leakage, remove the batteries from the instrument if it is not to be used for a long time.
- Even when the switch is in the “STANDBY” position, electricity is still flowing to the instrument at the minimum level. When you plan not to use the EZ-30 for a long period of time, make sure you unplug the AC power adaptor from the wall AC outlet, and/or remove the batteries from the instrument.



## Using Headphones



For private practicing and playing without disturbing others, connect a set of stereo headphones to the rear panel PHONES/OUTPUT jack. Sound from the built-in speaker system is automatically cut off when you insert a headphone plug into this jack.

### **CAUTION**

*Do not use headphones for a long time at high volume levels. Otherwise, you may damage your hearing.*

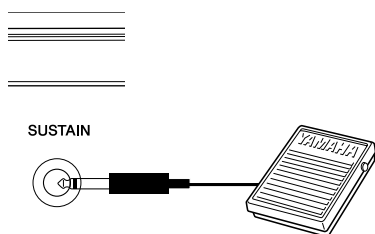
## Connecting a Keyboard Amplifier or Stereo System

Though the EZ-30 is equipped with a built-in speaker system, you can also play it through an external amplifier/speaker system. First, make sure the EZ-30 and any external devices are turned off, then connect one end of a stereo audio cable to the LINE IN or AUX IN jack(s) of the other device and the other end to the rear panel PHONES/OUTPUT jack on the EZ-30.

### **CAUTION**

*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.*

## Using a Footswitch



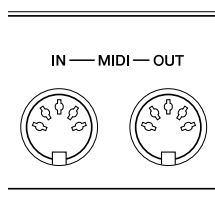
This feature lets you use an optional footswitch (Yamaha FC4 or FC5) to sustain the sound of the voices. The footswitch functions the same way as a damper pedal on an acoustic piano - press and hold down the footswitch as you play the keyboard to sustain the sound.



### Note

- Make sure that the footswitch plug is properly connected to the SUSTAIN jack before you turn 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.

## Using the MIDI Terminals



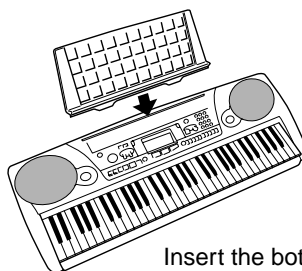
The EZ-30 also features MIDI terminals, allowing you to interface the EZ-30 with other MIDI instruments and devices. (For more information, see page 78.)



### Note

- Special MIDI cables (sold separately) must be used for connecting to MIDI devices. They can be bought at music stores, etc.
- Never use MIDI cables longer than about 15 meters. Cables longer than this can pick up noise which can cause data errors.

## Music Stand



Insert the bottom edge of the included music stand into the slot located at the top rear of the EZ-30 control panel.

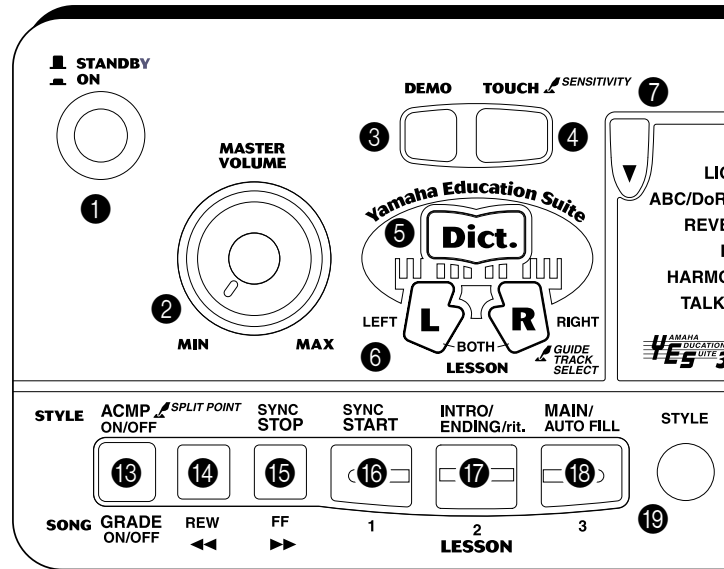
# Panel Controls and Terminals

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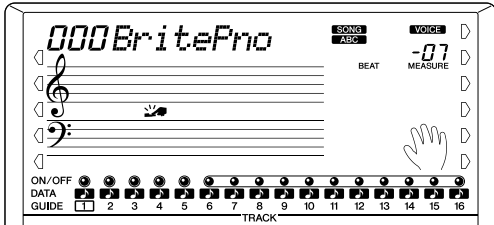
- ⓺ MIDI IN,OUT terminals ..... 9
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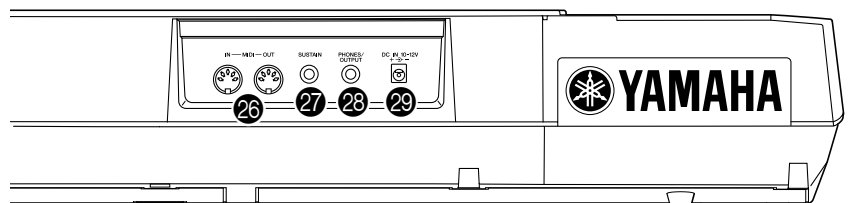
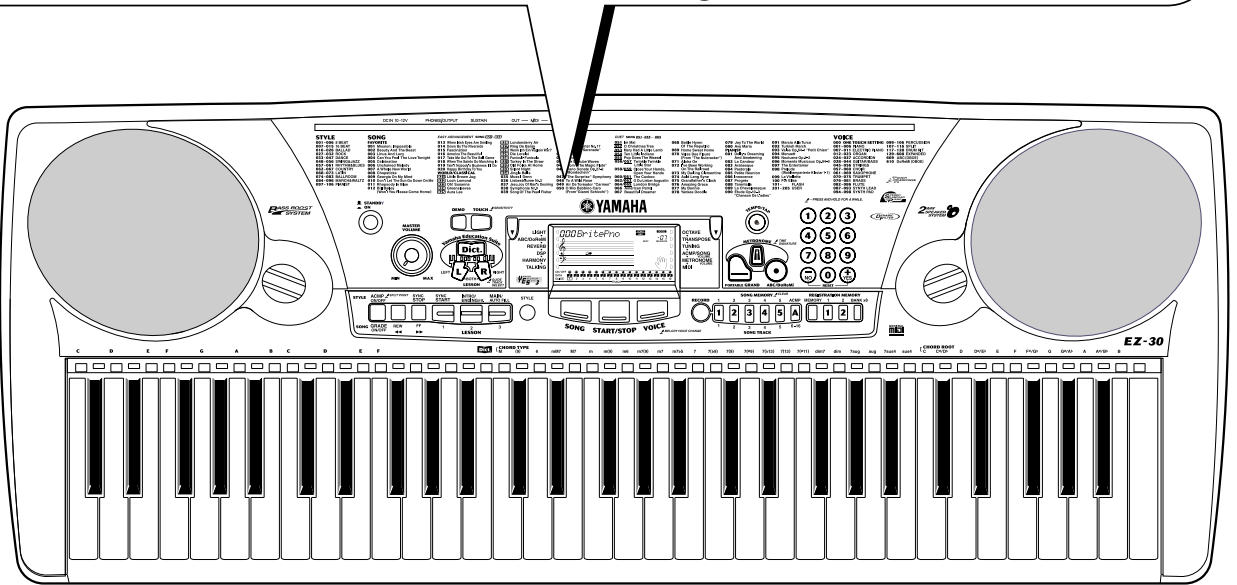
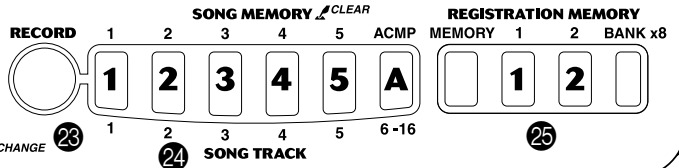
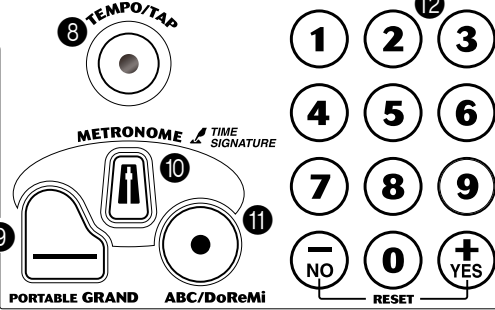


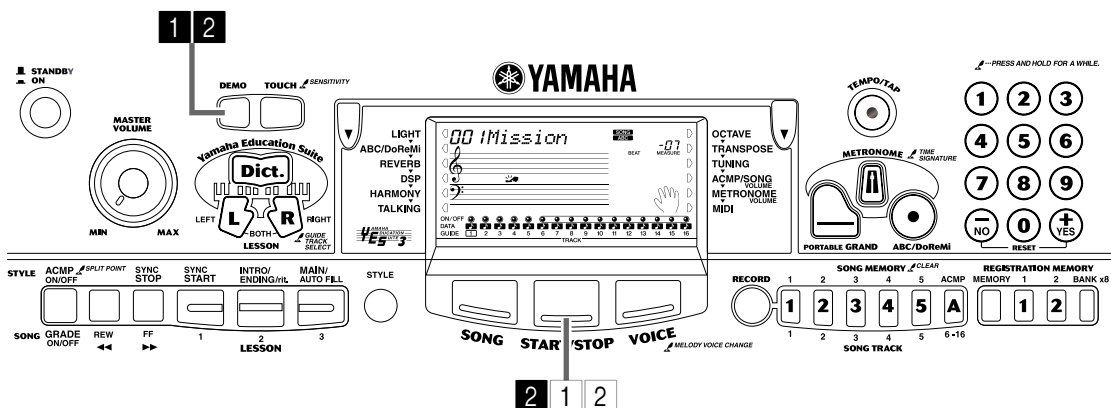
▲...PRESS AND HOLD FOR A WHILE.

LIGHT  
oReMi  
EYEB  
DSP  
MONY  
LKLING



OCTAVE  
TRANSPOSE  
TUNING  
ACMP/SONG  
METRONOME  
VOLUME  
MIDI





## Playing the Demo Songs

Demo songs (001–100) showcase the sophisticated features and stunning sound of the EZ-30. Let's play the Demo songs now, starting with 001...

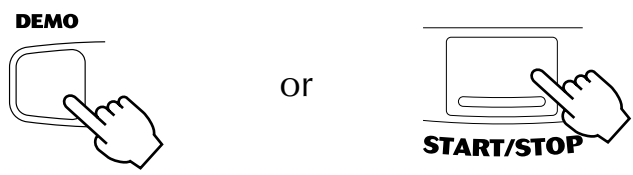
### 1 Press the [DEMO] button.

Demo song 001 starts playing. When the song is complete, the subsequent songs (002, 003...) start playing sequentially.



**Note** If you have loaded songs into flash memory, they are the first to play.

### 2 Stop the Demo song.



\* Want to find out more? See page 28.



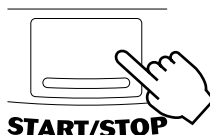
**Note** If you do not wish to play the Demo songs when you press the [DEMO] button, turn on the power to the EZ-30 while pressing and holding down the [DEMO] button. To activate the Demo playback function, turn on the power to the EZ-30 in the normal manner.

## Playing a Single Song

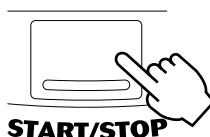
Naturally, you can also individually select and play back any of the EZ-30's songs (Songs 001–100 and songs in flash memory). Also, simply by pressing the [START/STOP] button, you can start playback.

### 1 Start the song.

When the power of the EZ-30 is turned on, the song of "003: Linus And Lucy" is selected. For instructions on selecting songs, See page 28.



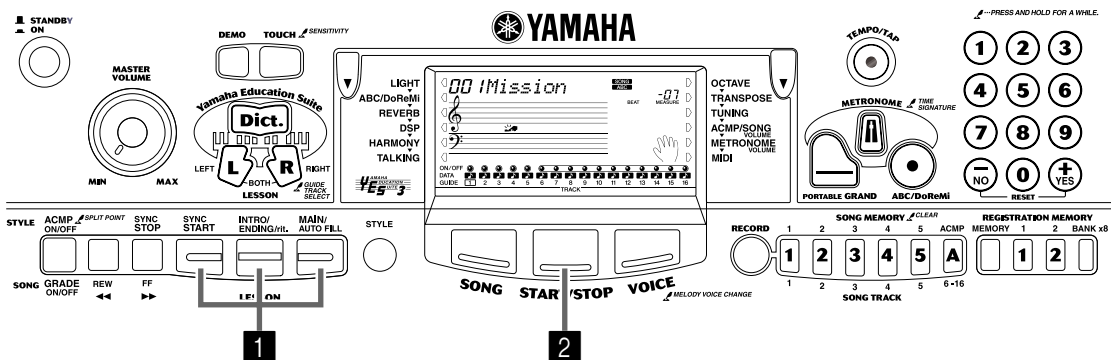
### 2 Stop the song.



\* Want to find out more? See page 28.

### [Song List]

| No.                  | Song Name                                | No. | Song Name                                   | No. | Song Name                                | No.            | Song Name                             |
|----------------------|------------------------------------------|-----|---------------------------------------------|-----|------------------------------------------|----------------|---------------------------------------|
| <b>Favorite</b>      |                                          | 25  | Aura Lee                                    | 52  | O Christmas Tree (DUET)                  | 77             | My Bonnie                             |
| 1                    | Mission:Impossible                       | 26  | Londonderry Air                             | 53  | Mary Had A Little Lamb (DUET)            | 78             | Yankee Doodle                         |
| 2                    | Beauty And The Beast                     | 27  | Ring De Banjo                               | 54  | Ten Little Indians (DUET)                | 79             | Joy To The World                      |
| 3                    | Linus And Lucy                           | 28  | Wenn Ich Ein Vöglein Wär ?                  | 55  | Pop Goes The Weasel (DUET)               | 80             | Ave Maria                             |
| 4                    | Can You Feel The Love Tonight            | 29  | Die Lorelei                                 | 56  | Twinkle Twinkle Little Star              | <b>Pianist</b> |                                       |
| 5                    | Celebration                              | 30  | Funiculi-Funicula                           | 57  | Twinkle Twinkle Little Star (DUET)       | 81             | Dolly's Dreaming And Awakening        |
| 6                    | Unchained Melody                         | 31  | Turkey In The Straw                         | 58  | Close Your Hands, Open Your Hands        | 82             | La Candeur                            |
| 7                    | A Whole New World                        | 32  | Old Folks At Home                           | 59  | Close Your Hands, Open Your Hands (DUET) | 83             | Arabesque                             |
| 8                    | Chopsticks                               | 33  | Silent Night                                | 60  | The Cuckoo                               | 84             | Pastorale                             |
| 9                    | Georgia On My Mind                       | 34  | Jingle Bells                                | 61  | The Cuckoo (DUET)                        | 85             | Petite Réunion                        |
| 10                   | Don't Let The Sun Go Down On Me          | 35  | Muss I Denn                                 | 62  | O Du Lieber Augustin                     | 86             | Innocence                             |
| 11                   | Rhapsody In Blue                         | 36  | Liebesträume Nr.3                           | 63  | O Du Lieber Augustin (DUET)              | 87             | Progrès                               |
| 12                   | Bill Bailey (Won't You Please Come Home) | 37  | Jesu, Joy Of Man's Desiring                 | 64  | London Bridge                            | 88             | Tarentelle                            |
| 13                   | When Irish Eyes Are Smiling              | 38  | Symphonie Nr.9                              | 65  | London Bridge (DUET)                     | 89             | La Chevaleresque                      |
| 14                   | Down By The Riverside                    | 39  | Song Of The Pearl Fisher                    | 66  | American Patrol                          | 90             | Etude Op.10-3 "Chanson De L'adieu"    |
| 15                   | Fascination                              | 40  | Gavotte                                     | 67  | Beautiful Dreamer                        | 91             | Marcia Alla Turca                     |
| 16                   | America The Beautiful                    | 41  | String Quartet No.17 2nd Mov. "Serenade"    | 68  | Battle Hymn Of The Republic              | 92             | Turkish March                         |
| 17                   | Take Me Out To The Ball Game             | 42  | Menuett                                     | 69  | Home Sweet Home                          | 93             | Valse Op.64-1 "Peiti Chien"           |
| 18                   | When The Saints Go Marchin' In           | 43  | Canon                                       | 70  | Valse Des Fleurs (From "The Nutcracker") | 94             | Menuett                               |
| 19                   | Tain't Nobody's Business If I Do         | 44  | The Danube Waves                            | 71  | Aloha Oe                                 | 95             | Nocturne Op.9-2                       |
| 20                   | Happy Birthday To You                    | 45  | From "The Magic Flute"                      | 72  | I've Been Working On The Railroad        | 96             | Moments Musicaux Op.94-3              |
| <b>World/Classic</b> |                                          | 46  | Piano Sonate Op.27-2 "Mondschein"           | 73  | My Darling Clementine                    | 97             | The Entertainer                       |
| 21                   | Little Brown Jug                         | 47  | "The Surprise" Symphony                     | 74  | Auld Lang Syne                           | 98             | Prelude (Wohltemperierte Klavier 1-1) |
| 22                   | Loch Lomond                              | 48  | To A Wild Rose                              | 75  | Grandfather's Clock                      | 99             | La Violette                           |
| 23                   | Oh! Susanna                              | 49  | Air de "Toréador" Carmen"                   | 76  | Amazing Grace                            | 100            | Für Elise                             |
| 24                   | Greensleeves                             | 50  | O Mio Babbino Caro (From "Gianni Schicchi") |     |                                          |                |                                       |
|                      |                                          | 51  | Im Mai (DUET)                               |     |                                          |                |                                       |

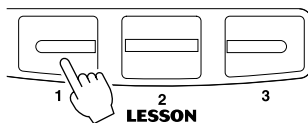


## Using the Lesson Feature

Songs 001 to 100 are specially designed for use with the educational Lesson feature. Let's start the practice, following the light.

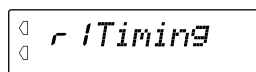
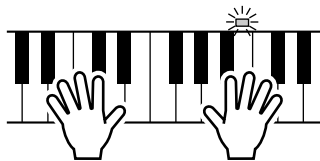
### 1 Select Timing, Waiting, or Minus One, and start the lesson.

When the power of the EZ-30 is turned on, the song of "003: Linus And Lucy" and the right-hand part are selected.



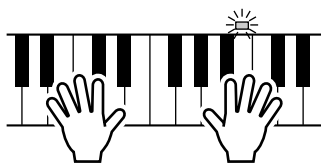
### Lesson 1: Timing

This step lets you work on the timing of the notes. In Lesson 1, the particular note you play on the keyboard is unimportant. The EZ-30 checks your timing and how rhythmically "tight" your playing is.



## **Lesson 2: Waiting**

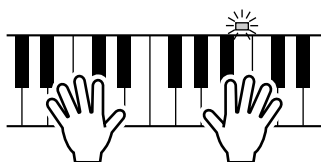
In Lesson 2, you practice playing the notes correctly as they appear in the display notation. The accompaniment pauses and waits for you to play the notes correctly before it continues.



```
◁ r2Waiting
```

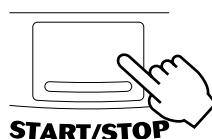
## **Lesson 3: Minus One**

In Lesson 3, you practice playing correct notes, along with the accompaniment. The accompaniment continues playing in tempo.



```
◁ r3MinusOne
```

## **2 When you're finished, stop the Lesson.**



\* Want to find out more? See page 34.

### **Grade**

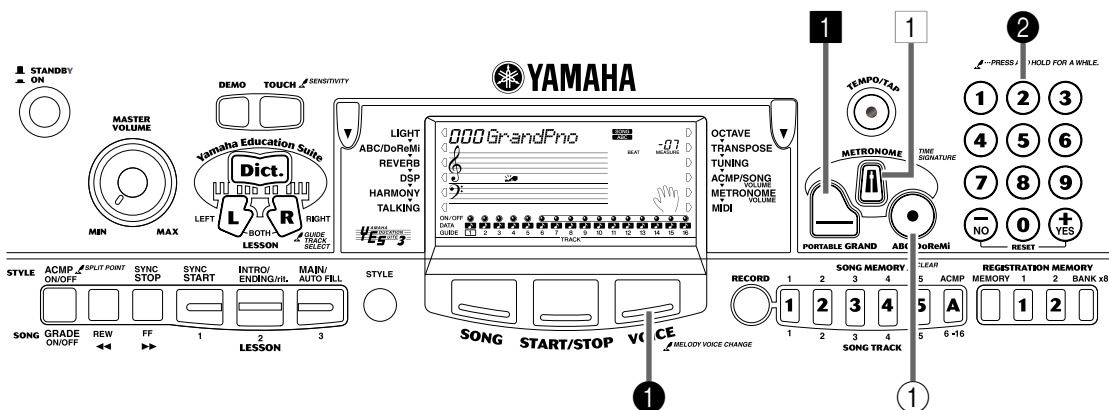
The EZ-30 has a built-in evaluation function that monitors your practicing and - like a real teacher - tells you how well you did each practice. Four grades are assigned, depending on your performance: "Try Again," "Good," "Very Good," and "Excellent."

\* Want to find out more? See page 37.

### **Talking**

This feature "talks" to you through the speakers, "announcing" the Grade comments as well as the titles of the Lesson steps.

\* Want to find out more? See page 38.

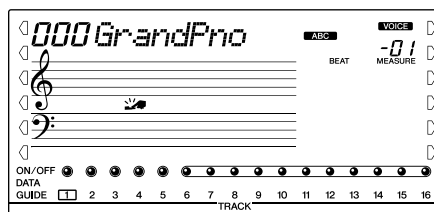


## Playing the Piano

Simply by pressing the [PORTABLE GRAND] button, you can automatically reset the entire EZ-30 for piano play.

- 1 Press the [PORTABLE GRAND] button.

The song and style are also set for piano performance.



- 2 Play the keyboard.

\* Want to find out more? See page 39.

## Playing along with the Metronome

- 1 Press the [METRONOME] button.



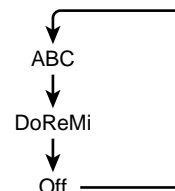
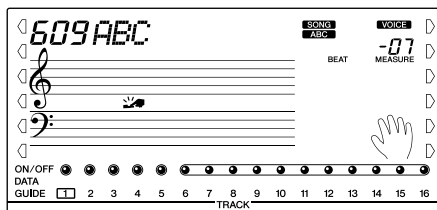
\* Want to find out more? See page 39.



## Playing the ABC/DoReMi voices

### ① Press the [ABC/DoReMi] button.

The ABC voice is selected. To select the DoReMi voice, press the [ABC/DoReMi] again.



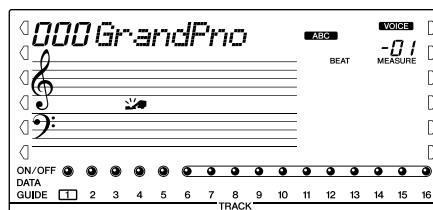
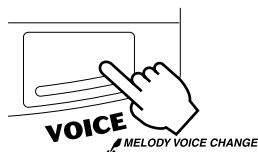
### ② Play the keyboard.

\* Want to find out more? See page 43.

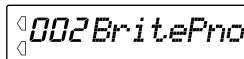
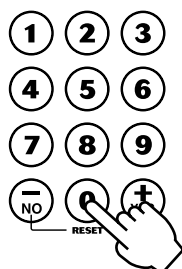
## Selecting and Playing Other Voices

The EZ-30 has a huge total of 610 dynamic and realistic instrument voices. Let's try a few of them out now...

### ① Press the [VOICE] button.

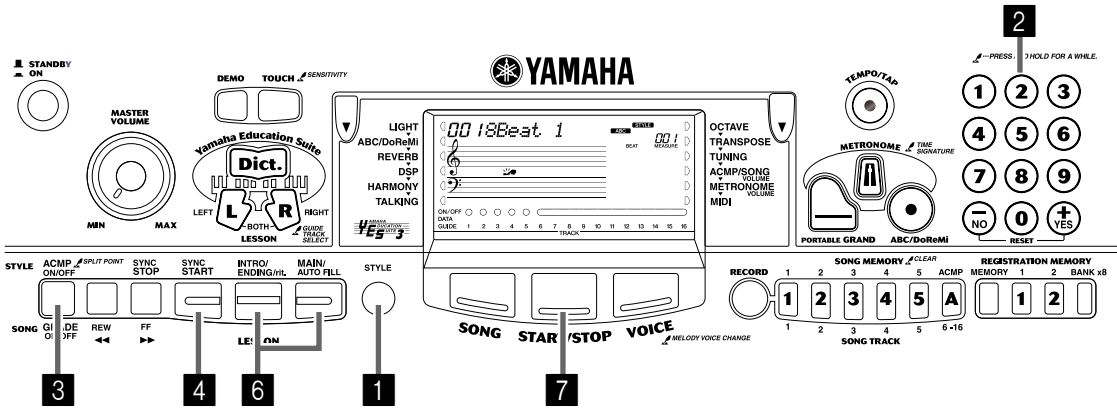


### ② Select a voice.



### ③ Play the keyboard.

\* Want to find out more? See page 42.

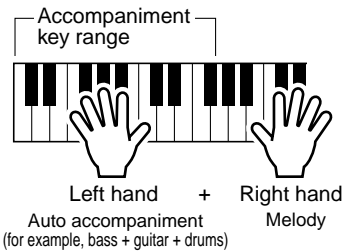


## Using the Auto Accompaniment

Simply play chords with your left hand - and the EZ-30 automatically produces appropriate bass, chord and rhythm backing. Use your right hand to play melodies, and you'll sound like an entire band!

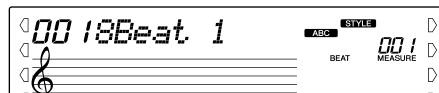
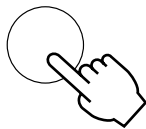


For more information on playing proper chords for the auto accompaniment, see "Using Auto Accompaniment - Multi Fingering" on page 55 and "Looking up Chords in the dictionary" on page 58.

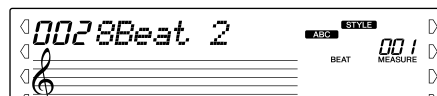
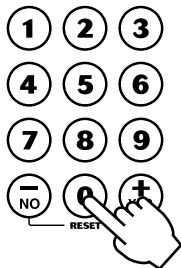


**1** Press the [STYLE] button.

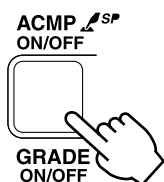
STYLE



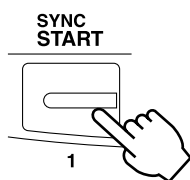
**2** Select a style. Refer to the Style List on page 90.



**3 Turn the auto accompaniment on.**



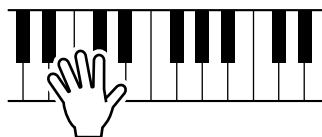
**4 Turn the Sync Start function on.**



**5 Play a chord with your left hand.**

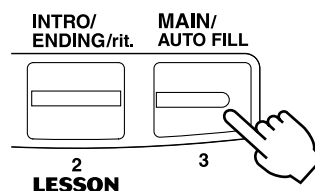
The auto accompaniment starts as soon as you play the keyboard.

\* Want to find out more? See page 55.

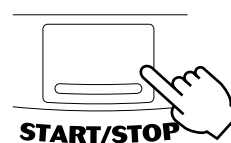


**6 Select a section.**

The auto accompaniment has four sections: Intro, Main A/B, and Ending.

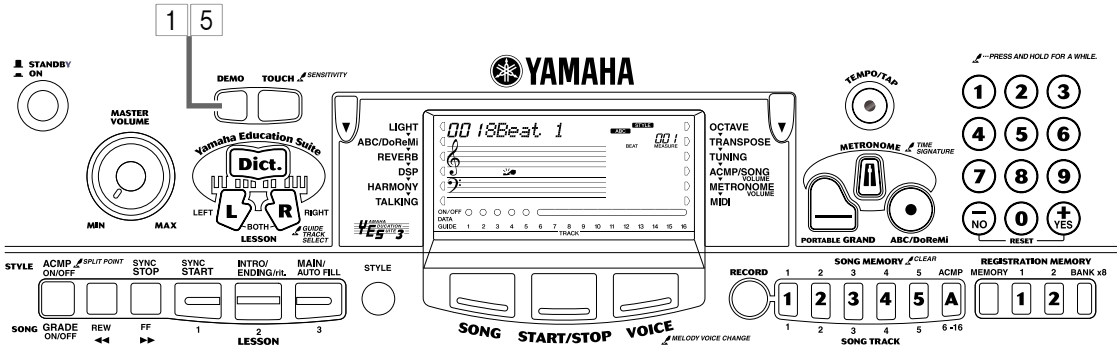


**7 Stop the auto accompaniment.**



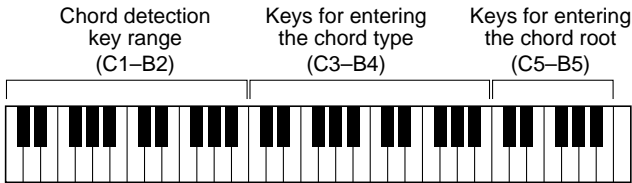
\* Want to find out more? See page 51.

Quick Guide **STEP 4** Auto Accompaniment



**Looking up Chords in the Dictionary**

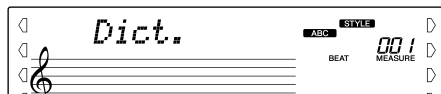
The convenient Dictionary function teaches you how to play chords by showing you the individual notes. In the example below, we'll learn how to play a GM7 chord...



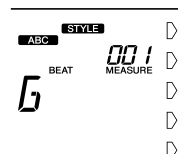
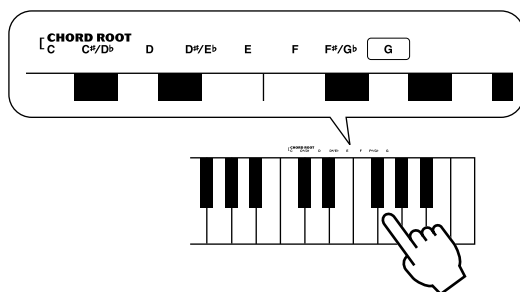
Example:

|           |            |
|-----------|------------|
| <b>G</b>  | <b>M7</b>  |
| Root note | Chord type |

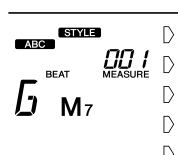
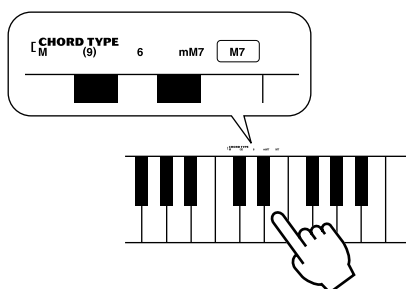
1 Press the [Dict.] button.



- 2 Specify the root note of the chord (in this case, G).

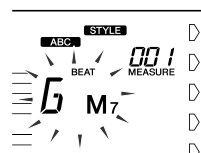
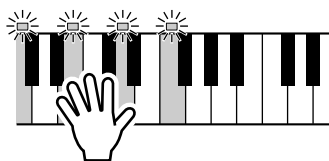


- 3 Specify the chord type of the chord (in this case, M7).



- 4 Play the chord by pressing the keys lighted up.

The chord name flashes and a "congratulations" melody is played, when the chord is played properly.



- 5 To leave the Dictionary function, press the [Dict.] button again.



\* Want to find out more? See page 58.

# Panel Display Indications

## Power on

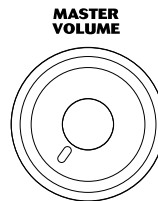
Press the [STANDBY/ON] switch to turn on the power to the EZ-30. Press the [STANDBY/ON] switch again to turn off the power.



Even when the [STANDBY/ON] switch is in the "STANDBY" position, electricity still flows through the instrument at the minimum level. When you plan not to use the EZ-30 for a long period of time, make sure you unplug the AC power adaptor from the wall AC outlet, and/or remove the batteries from the instrument.

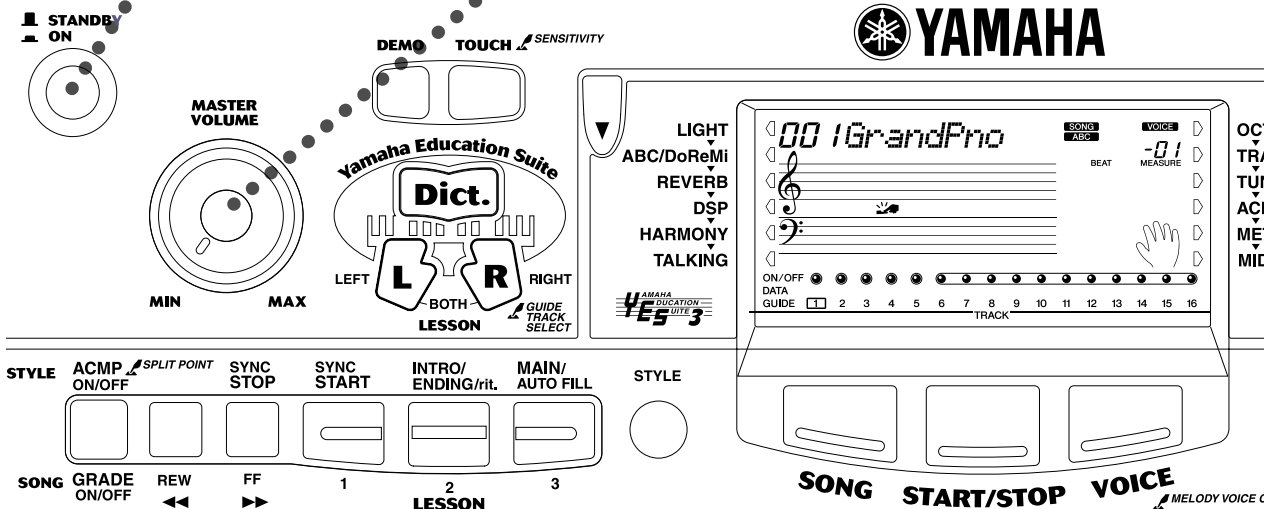
## Adjusting the volume level

Rotate the [MASTER VOLUME] dial.



Rotating the dial counter-clockwise lowers the volume level.

Rotating the dial clockwise raises the volume level.

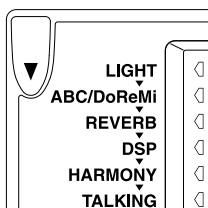


## Overall (L, R) indicator

The left and right Overall buttons enable you to make EZ-30's global settings.

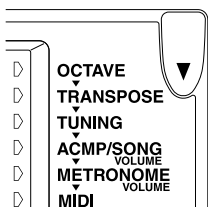
### Overall (left)

|                  |    |
|------------------|----|
| LIGHT .....      | 32 |
| ABC/DoReMi ..... | 36 |
| REVERB .....     | 48 |
| DSP .....        | 49 |
| HARMONY .....    | 50 |
| TALKING .....    | 38 |



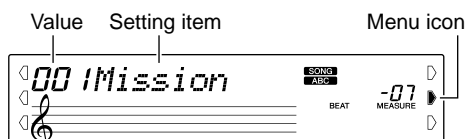
### Overall (right)

|                       |        |
|-----------------------|--------|
| OCTAVE .....          | 73     |
| TRANPOSE .....        | 45     |
| TUNING .....          | 46     |
| ACMP/SONG VOLUME .... | 61, 32 |
| METRONOME VOLUME ...  | 40     |
| MIDI .....            | 74, 79 |



If you press the left or right Overall button located in the upper-left and upper-right of the display, a menu icon advances and the top row in the display indicates the currently-selected "setting item" and "value." When you press the left or right Overall button again, the menu icon advances to the next setting item.

E.g., Transpose setting



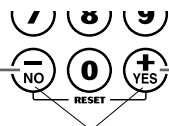
## Adjusting the tempo

Song and accompaniment tempo can be adjusted (page 31).

## Changing the value

Use the numeric keypad [0]–[9], [+], or [-] buttons to change the value.

Pressing the button once decrements the value by one.



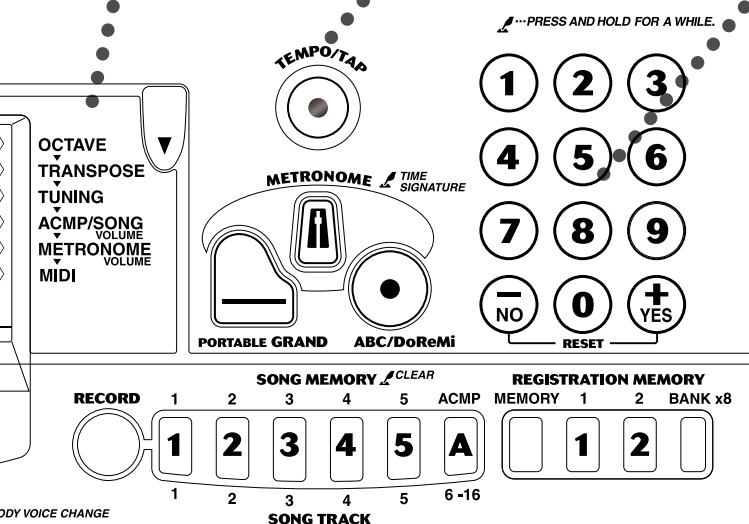
Pressing the button once increments the value by one.

Pressing and holding down the button increments/decrements the value continuously. For some functions, pressing these buttons simultaneously restores the default setting.

## Symbol for pressing and holding down the button

If you press and hold down a button with this symbol for more than one second, a different function will be activated.


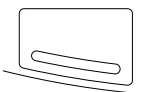

Pressing and holding down



# Panel Display Indications

## Selecting a function

- Pressing the [STYLE], [VOICE], or [SONG] button enables you to select one of EZ-30's basic functions. (The icon of the selected function appears.)

|                                                                                                   |                                                                                                  |                                                                                                    |
|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| <br><b>STYLE</b> | <br><b>SONG</b> | <br><b>VOICE</b> |
| <p><u>Style</u></p> <p>Select a style for accompaniment.</p> <p><b>STYLE</b></p>                  | <p><u>Song</u></p> <p>Selects a song for playback or practice.</p> <p><b>SONG</b></p>            | <p><u>Voice</u></p> <p>Selects a voice to play on the keyboard.</p> <p><b>VOICE</b></p>            |

- If you select a song or accompaniment, then select a voice, the EZ-30 indicates the following:

**[Song→Voice]**  
Select a voice using the numeric keypad.

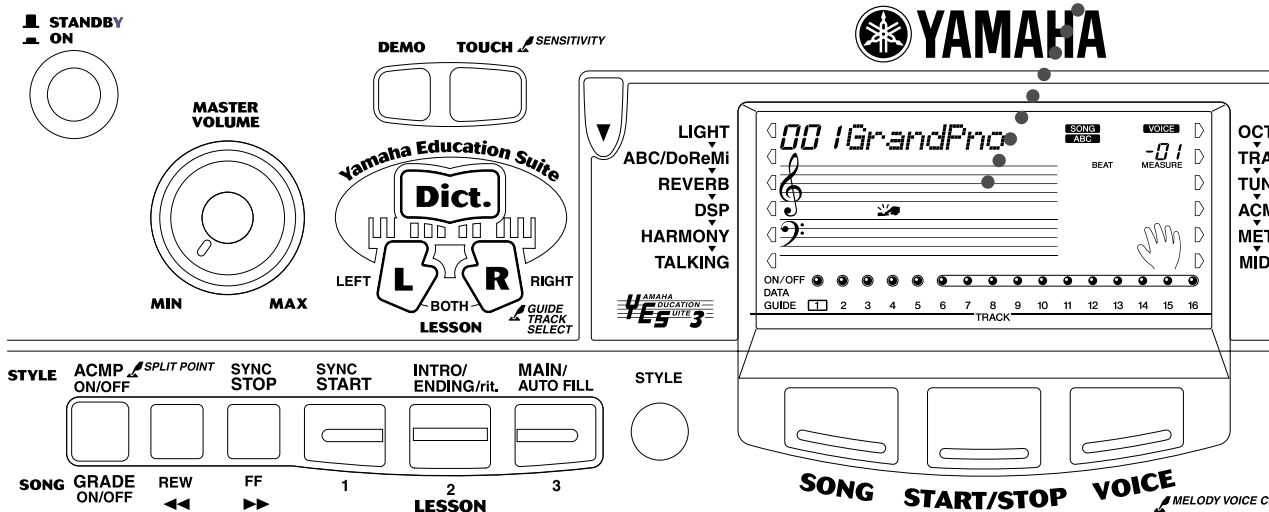
**SONG VOICE**

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

**[Style→Voice]**  
Select a voice using the numeric keypad.

**STYLE VOICE**

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

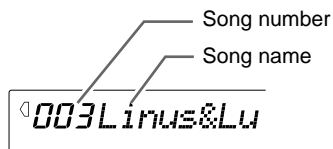




## Name & number indication (Song/Style/Voice)

The top row of the display indicates the name and number of the currently-selected function.

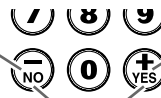
E.g., Selecting a song



## Selecting a number

- To increment or decrement the number, use the numeric keypad or [+]/[-] button.

Pressing the button once decrements the number by one.

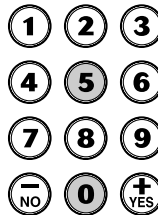


Pressing the button once increments the number by one.

Pressing and holding down the button increments/decrements the number continuously. Pressing both buttons simultaneously resets the number.

- To select the number directly, use the numeric keypad [0]–[9].

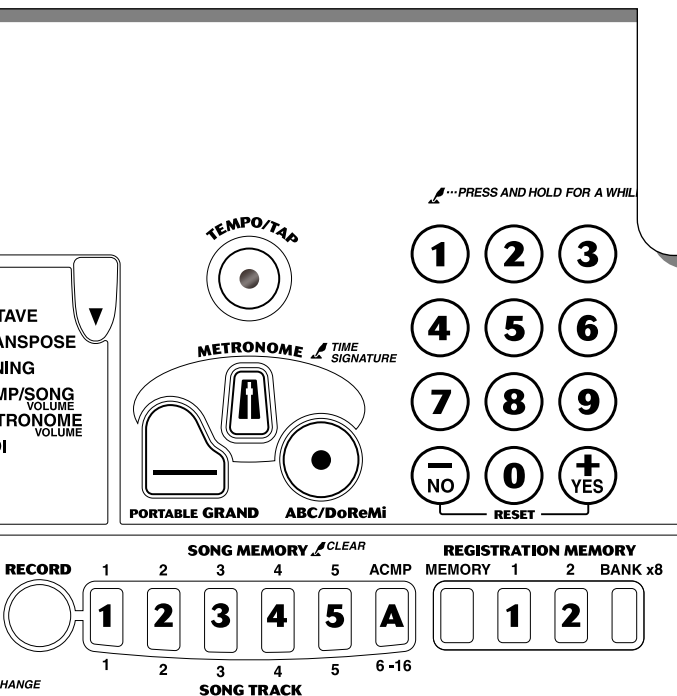
For example, to select Voice #005: HnkyTonk, press [0], [0], then [5] on the numeric keypad.



005 HnkyTonk



If the first digit is "0," you can skip pressing [0]. If the first and second digits are both "0," you can also skip pressing [0] twice.



# Panel Display Indications

## Touch indicator

This appears when the Touch function is turned on.



## Sync Stop indicator

This appears when the Sync Stop function is turned on.



## Harmony indicator

This appears when the Harmony effect is turned on.



## Accompaniment On indicator

This appears when the auto accompaniment has been turned on.



The main panel display shows the following information:

- SONG:** Mission
- STYLE:** ABC
- VOICE:** DoReMi
- BEAT:** 888
- MEASURE:** 888
- 8va** and **8va** indicators for pitch bending.
- F** indicator for force.
- Hand diagrams** showing finger positions for the right and left hands.
- TRACK** section with 16 numbered buttons (1-16).
- ON/OFF** section with 16 circular indicators.
- DATA** section with 16 musical note icons.
- GUIDE** section with 16 square indicators.

## ABC/DoReMi indicators

These show the guide voice setting ("ABC" or "DoReMi") for the Lesson function.

ABC

## Low battery indicator

This appears when the battery voltage is getting low.



## Song track ON/OFF indicators

They light up when the corresponding tracks are turned on.



## Song track DATA indicators

They indicate the current playback tracks.



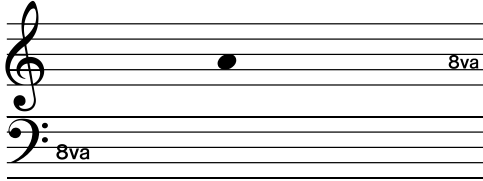
## Song track GUIDE indicators

A frame appears around the number of a track that uses the right-hand/left-hand guide function.



## Notation display

When you are using the Lesson function, the notation display indicates the song melody or chord notation. When you are using the Dictionary function, it indicates the notes that make up the chord. Other than that, it usually indicates the notes you played.



- If a note is too high or too low to be notated within the score, a note that is one octave lower or higher will be indicated on the score, along with "8va" at the top or bottom of the score.
- Due to the limitation of the screen, some notes in a chord may not be displayed.

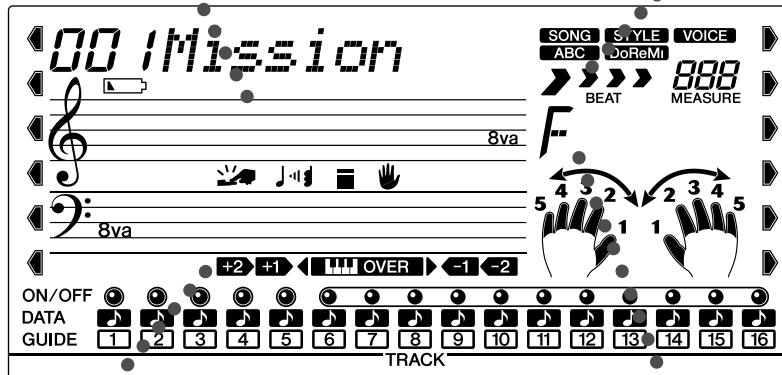
## Measure indicator

The measure numbers of a song or accompaniment are displayed. If you select a free-tempo song, "F t" appears.



## Beat indicators

Four arrows flash to indicate the beat of a song or accompaniment.



## Octave indicator

While a Flash song is being played, this indicator appears if the key range of the notes being played is higher (or lower) than the EZ-30's keyboard range.



These indicators are displayed when the playback pitch is raised (or lowered) by an octave or two (page 73).



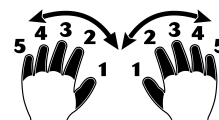
## Chord indicator

This indicator indicates the name of the currently-played chord or a chord you play on the keyboard.



## Fingering guide

During the Lesson, this guide suggests a fingering for playing the song.

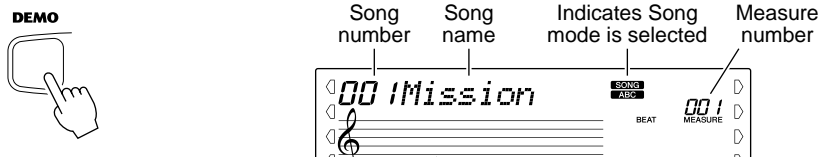


# Selecting and Playing Songs

The EZ-30 has 100 preset songs. Try playing these songs or songs loaded into flash memory. Use the Song Memory function to record your own performance. (See page 66.)

## Listening To a Demo Song

Press the [DEMO] button. Songs from #1 to #100 will be played sequentially.



If you select a song after another song has started playing, the EZ-30 will sequentially play songs in the category (e.g., Pianist etc. See page 13.) that contains the selected song.



**Note**

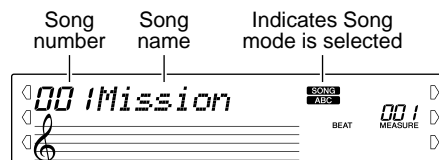
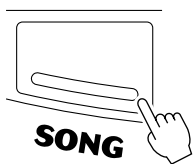
- Turning the power on while pressing and holding down the [DEMO] button will disable the Demo song playback function. To enable the Demo song playback, turn the power on in the normal manner.
- If a song (or songs) has been loaded into flash memory, the Flash song(s) starts playing first.

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

## Selecting and Playing a Song



Press the [SONG] button.

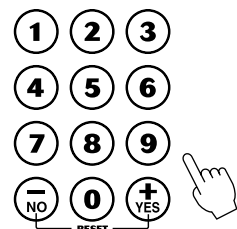


Select the desired song number.

Use the numeric keypad or the [+]/[-] buttons (page 25).

|                  |              |
|------------------|--------------|
| 001–100 .....    | Preset Songs |
| 101–(199)* ..... | Flash Songs  |
| 201–205 .....    | User Songs   |

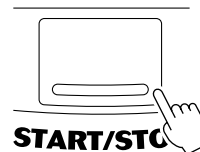
\* The maximum song number differs depending on the amount of available flash memory.



### 3

## Start and stop the song playback.

Press the [START/STOP] button to start song playback.  
 You can play the keyboard along with the playback.  
 Press the [START/STOP] button to stop song playback.



The playback will repeat until you press the [START/STOP] button.

#### Other controls

- [FF] button** ..... Pressing this button during playback will fast forward the song.  
 Pressing this button while playback is stopped will increment the measure number.
- [REW] button** ..... Press this button during playback will rewind the song. (No sound will be heard at this time.)  
 Pressing this button while playback is stopped will decrement the measure number.

## Listening to a Flash Song

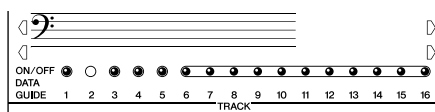
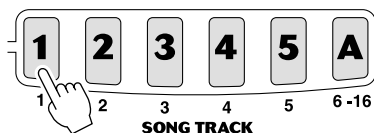
The EZ-30 can play a song loaded into its internal flash memory. To do this, you need to connect the EZ-30 to a personal computer, and use “Song Filer” application program on the computer to transmit a song.  
 For more information on Flash songs and Song Filer, refer to page 71.

## Switching the Tracks On and Off

Each song contains 16 tracks (1–16).

You can switch tracks 1–5 on and off using the **SONG MEMORY [1]–[5]** buttons respectively, and switch tracks 6–16 on and off altogether using the **[A]** button.

This is useful when you practice playing a certain track by switching that track off (the track sound will be muted).



- ON/OFF indicator is lit. The corresponding track is played. (The track contains data.)
- ON/OFF indicator is off. The corresponding track is muted (no sound will be heard), or the track contains no data.

A song contains the following tracks:

- **Tracks [1]–[5]** ..... Each track can be switched on and off individually.
- **Tracks [6]–[16]** ..... Tracks 6–16 can be switched on and off altogether.

## Melody Voice Change

You can change the voice of a song melody to the desired one during song playback.

**1** Select the desired voice.

Press the [VOICE] button, then use the numeric keypad or [+]/[-] buttons to select the desired voice.



003PianoStr

**2** Press and hold down the [VOICE] button for at least one second.

"MELODY VOICE CHANGE" appears in the display, indicating that the selected voice has replaced the song's original melody voice.



## Adjusting the Tempo

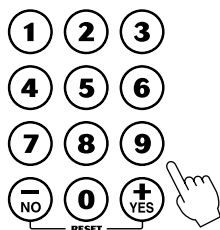
Song and accompaniment tempo can be adjusted in the range of ♩ = 32–280 (the number of quarter notes per minute).



Press the [TEMPO/TAP] button.



Press the numeric keypad or [+]/[-] buttons to change the tempo value.



You can instantly restore the default setting by pressing both [+]/[-] buttons simultaneously (When Tempo is selected).

## Tap Function

You can set your own tempo intuitively.

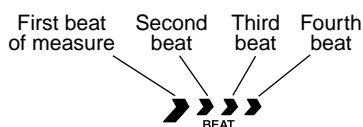
Press the [TEMPO/TAP] button four times for a four-beat song and three times for a three-beat song at a tempo at which you would like to play.



The Tap function is also available during song playback.

## About beat indicators

During performance, the arrows flash sequentially in tempo.



## About free tempo

Some songs utilize a tempo that does not synchronize with or match the timing of the measures and beats as a way of enriching musical expression.

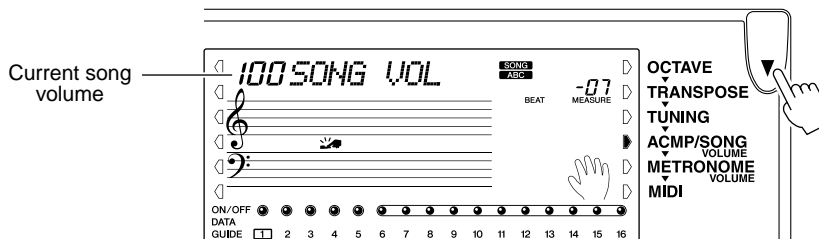
During the playback of such songs, the measure indicator indicates “Ft.”

Also, depending on the song, the beat indicators may not flash.

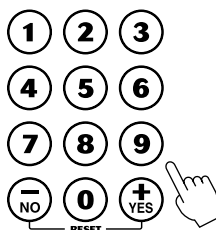
## Song Volume Level

Adjust the song volume to balance with the level of the keyboard performance.

- 1 Press the right Overall button repeatedly until “SONG VOL” appears in the display.



- 2 Press the numeric keypad or [+] / [-] buttons to set the song volume (000–127).



Note

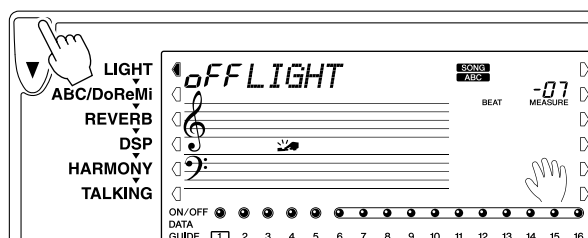
- You can instantly restore the default setting of “100” by pressing both [+] / [-] buttons simultaneously (When Song Volume is selected).
- You can set the volume level of the selected song.

## Switching the Light Guide On and Off

You can switch the Light Guide on the keyboard on or off.

The Light Guide can be used as a keyboard guide during song playback or while you are using the Lesson or the Dictionary function.

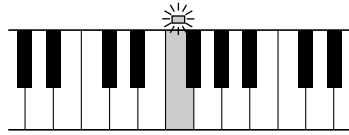
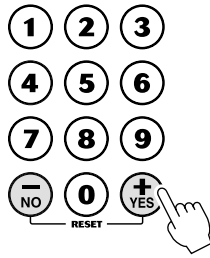
- 1 Press the left Overall button to select “LIGHT.”







Press the [+] or [-] button to turn the Light Guide on or off.



**! CAUTION**

Playing while looking at the lights for a long period of time may cause eye strain and stiff neck/shoulders. For your health and comfort, we recommend that you take a ten-minute break for every hour.

# Song Lesson

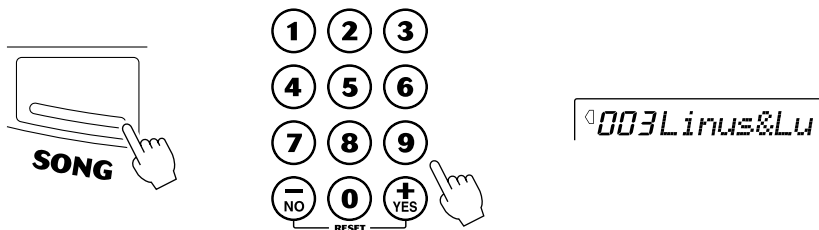
You can practice playing a song selected from Lesson songs #001–100 and songs in flash memory.

## Using the Lesson Feature



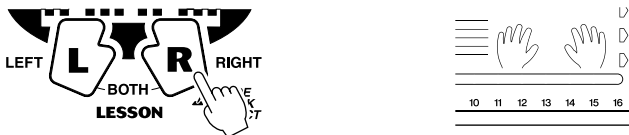
### Select one of the Lesson songs.

Press the [SONG] button, then use the numeric keypad or [+]/[-] buttons to select the desired song.



### Select the part you wish to work on (left, right or both.)

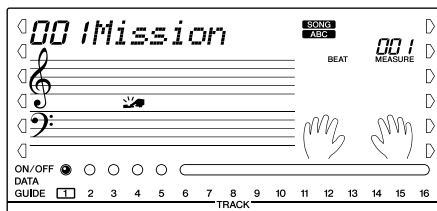
If you want to work on the right-hand part, press the [R] button; to work on the left, press the [L] button. Press the [L] and [R] buttons simultaneously to work with both hands.



The icon of the selected hand(s) appears.

### Track indicators

A lesson track(s) will be indicated by a frame around the GUIDE track number.

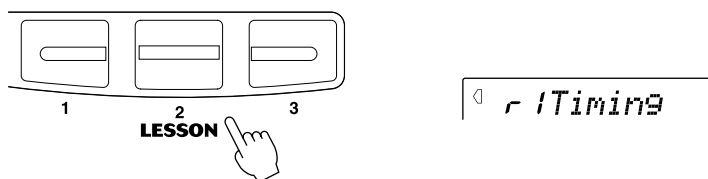


If a flash song is selected, you can change the track that guides your right- and left-hand part (See page 73).

### 3

#### Start the Lesson.

When you press one of the **LESSON** [1]–[3] buttons, the Lesson song starts. The display indicates the notes to play and the Light Guide shows you which key to play.



#### Types of Lesson

Press one of the following buttons to select and start a type of Lesson.

**Lesson 1: Timing** ..... This lesson step lets you practice just the timing of the notes - any note can be used. The melody does not sound unless you play in rhythm.

**Lesson 2: Waiting**..... In this lesson step, the EZ-30 waits for you to play the correct notes before continuing playback of the song. When you play the correct note, the next note to play is indicated. Also, the EZ-30 can sing the next note to play using "A, B, C..." or "Do, Re, Mi..." (page 36).

**Lesson 3: Minus One** ... This lesson step lets you practice playing the correct notes along with the accompaniment. All parts except for the part you are practicing will be played in tempo like a "karaoke".



#### Note

- In Lesson 2, the rhythm part is muted.
- If the Talking function is turned on, the EZ-30 announces the Lesson number.
- To exit from the Lesson, press the corresponding **LESSON** button.

### 4

#### Press the [START/STOP] button to stop the Lesson.

The EZ-30 exits from the Lesson feature automatically when the [START/STOP] button is pressed.

## ABC/DoReMi Guide

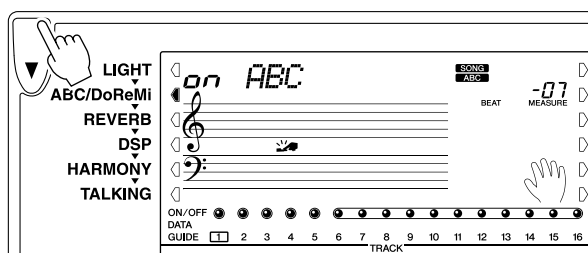
When the ABC/DoReMi Guide is activated, the EZ-30 sings the next note to play using "A, B, C..." or "Do, Re, Mi..." in Lesson 2.



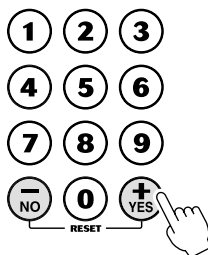
For instruction on changing the guide voice (ABC or DoReMi), see page 43.



Press the left Overall button repeatedly to select "ABC/DoReMi."



Press the [+] or [-] button to turn the ABC/DoReMi Guide on or off.



## Grade

The Lesson feature has a built-in evaluation function that monitors your practicing of the Lesson songs, and just like a real teacher, it tells you how well you did each practice. Four grades are assigned, depending on your performance: "Try Again," "Good," "Very Good," and "Excellent." When the Talking function (page 38) is on, the EZ-30 also "announces" your grade.



**Press the [GRADE ON/OFF] button to turn the Grade on or off.**



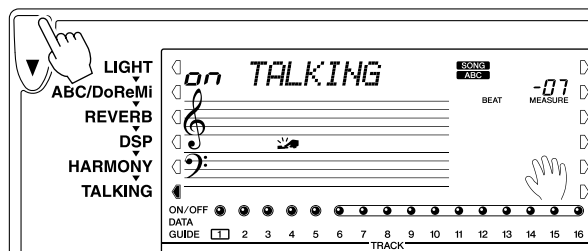
The EZ-30 tells you your grade via the LCD, Light Guide, and the Talking function.

After displaying your grade, the EZ-30 resumes the Lesson.

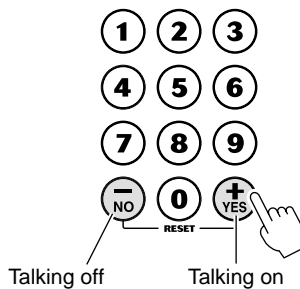
## Talking

This feature “talks” to you through the speakers, “announcing” the Grade comments as well as the titles of the Lesson steps and the names of certain functions.

- 1 Press the left Overall button repeatedly to select “TALKING”.



- 2 Press the [+]/[-] buttons to set Talking to on or off.



The Talking function includes the following “announcements”:

- [Dictionary]
- [LESSON 1–3]
- [Try Again]
- [Good]
- [Very Good]
- [Excellent]

# Portable Grand

You can practice playing “a real piano,” by pressing the [PORTABLE GRAND] button.

When you press the [PORTABLE GRAND] button, the EZ-30 configures all the settings for piano performance.



**The EZ-30 configures the following settings when you press the [PORTABLE GRAND] button:**

|                         |                                       |
|-------------------------|---------------------------------------|
| Voice .....             | 001 Grand Piano                       |
| Style .....             | 097 Stride                            |
| Song .....              | 081 Dolly's Dreaming And<br>Awakening |
| Touch .....             | On                                    |
| One touch setting ..... | On                                    |
| Harmony .....           | Off                                   |
| Split point .....       | 054                                   |

The song and style category “PIANIST” (automatically selected with the settings described above) includes the songs and styles that are suitable for the piano performance.



The “PIANIST” styles are played without any rhythm sound.

## Using the Metronome

Press the [METRONOME] button to play the Metronome in tempo with the accompaniment. You can use this feature for your piano practice.

A chime sounds at every first beat of the measures.



To turn the Metronome off, press the [METRONOME] button again.

## Setting a Tempo

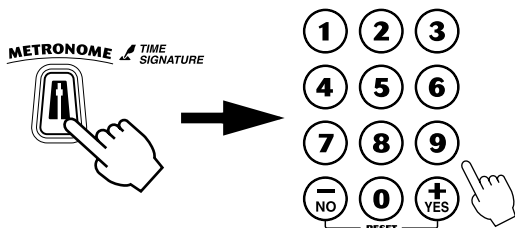
To change the tempo, press the [TEMPO/TAP] button and use the numeric keypad or [+]/[-] buttons to change the value. (See page 31.)



To restore the default Metronome Tempo value, press both [+]/[-] buttons simultaneously (when Metronome Tempo is selected in the Overall menu).

## Setting the Time Signature of the Metronome

You can set the time signature of the Metronome while the rhythm part is stopped. Press and hold down the [METRONOME] button for more than one second to display the Metronome time signature setting, and use the numeric keypad or [+] / [-] buttons to change the time signature value.



05 TIME SIG

| Numeric keypad | Time signature                      |
|----------------|-------------------------------------|
| 0              | – (A chime does not sound.)         |
| 1              | 1/4 (A chime sounds on every beat.) |
| 2              | 2/4                                 |
| 3              | 3/4                                 |
| 4              | 4/4                                 |
| 5              | 5/4                                 |
| 6              | 6/4                                 |
| 7              | 7/4                                 |
| 8              | 8/4                                 |
| 9              | 9/4                                 |
| 10             | 10/4                                |
| 11             | 11/4                                |
| 12             | 12/4                                |
| 13             | 13/4                                |
| 14             | 14/4                                |
| 15             | 15/4                                |



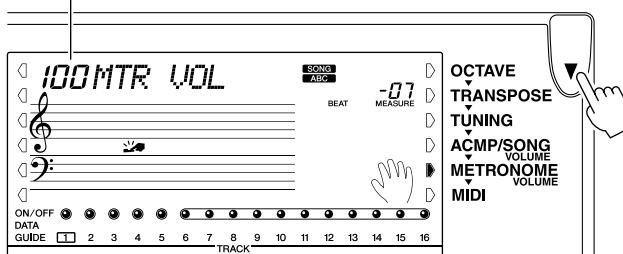
**Note** When you select another style or song, the time signature of the Metronome also changes to that of the selected style or song.

## Adjusting the Metronome Volume

You can adjust the volume of the Metronome sound independently of the other EZ-30 sounds. The volume range is 000–127.

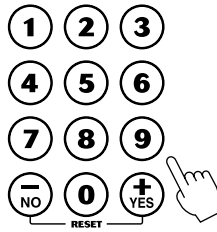
- 1 Press the right Overall button repeatedly to select “METRONOME VOLUME”.

Current Metronome Volume value





**2** Press the numeric keypad or [+] / [-] buttons to set the desired Metronome Volume value.



**Note** To restore the default Metronome Volume value (100), press both [+] / [-] buttons simultaneously (when Metronome Volume is selected in the Overall menu).

# Playing Voices

## Selecting a Voice

The EZ-30 features high-quality voices that use an advanced technology AWM (Advanced Wave Memory) tone generator. (See page 85.)

- **Voices** ..... 1–116 (116 voices), 117–128 (drum kit), 609 (ABC (Oboe) voice), 610 (DoReMi (Oboe) voice)
- **Expanded Voices** ..... 129–608 (480 voices)

Some voices include the following effects.

### Split voice (107–116)

One voice is assigned to the right side of the split point on the keyboard, and another voice is assigned to the left side.

### Drum kit (117–128)

Playing different keys on the keyboard produces different drum sounds.

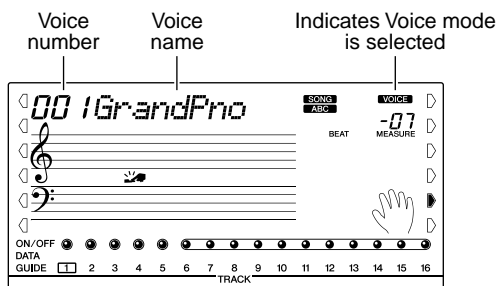
### ABC (Oboe) voice (609), DoReMi (Oboe) voice (610)

When you play the keyboard, the EZ-30 “sings” the corresponding notes using ABC or DoReMi. If the Transpose value is adjusted (other than “00”), they sound using Oboe voice.

## Playing a Voice



Press the [VOICE] button.



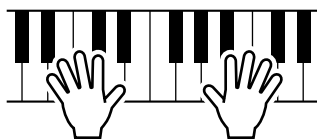
Select the desired voice number.

Use the numeric keypad to directly enter the voice number, or use the [+]/[-] buttons to step up and down through the voices (page 25).

# 3

## Play the selected voice.

Try playing different voices.



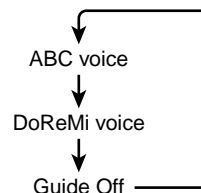
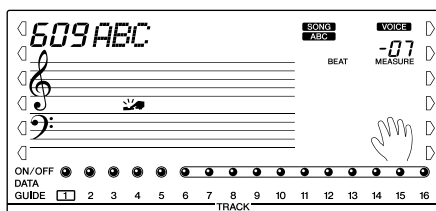
**Note** When you select a voice, a DSP type most appropriate for the voice will be selected automatically.

### Selecting the ABC or DoReMi voice

Simply by pressing the [ABC/DoReMi] button, you can select the ABC (Oboe) voice (#609) or DoReMi (Oboe) voice (#610). The setting is also valid for the guide voice for the Lesson function (page 36).

1. Press the [ABC/DoReMi] button repeatedly to select the ABC or DoReMi voice.

Pressing the [ABC/DoReMi] button toggle among ABC voice, DoReMi voice and Guide Off.



## One Touch Setting

This special “voice” is actually a convenient feature which automatically selects a suitable voice for you when you select a style. The voice is selected to best match the style or song you’ve called up.

# 1

## Press the [VOICE] button.

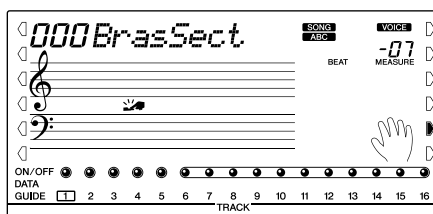
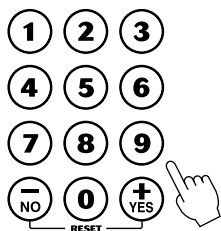
The name of the current voice appears.





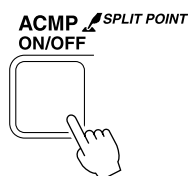
Press the numeric keypad [0] or [+]/[-] buttons to select the voice number "000."

This turns on the One Touch Setting.

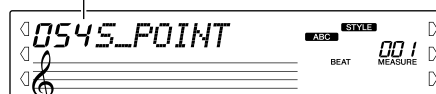


## Changing the Split Point

Pressing and holding down the [ACMP ON/OFF] button for more than one second enables you to change the split point. If you have already selected a split voice, you can play a different voice on the right and left sides of the split point on the keyboard.

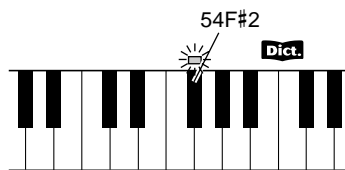
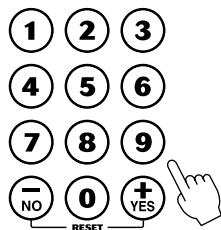


Current split point setting



To restore the default setting of "54F#2," press both [+]/[-] buttons simultaneously.

Press the numeric keypad or [+]/[-] buttons to change the split point.



Current split point



"54F#2" means that the left side of the keyboard ranges up to F#2.

### Split point for auto accompaniment

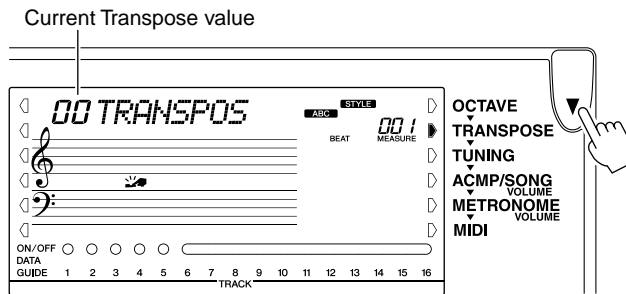
The split point for the auto accompaniment (the border between the melody key range and the accompaniment key range) is the same as that for the split voices.

# Transpose

Transpose determines the key of both the main voice and the bass/chord accompaniment of the selected style. The Transpose settings can be adjusted over a range of  $\pm 12$  semitones ( $\pm 1$  octave).

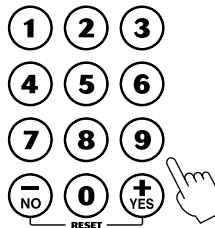


Press the right Overall button repeatedly to select "TRANPOSE".



Press the numeric keypad or [+]/[-] buttons to set the desired Transpose value (-12 - +12).

To transpose the pitch down, simultaneously press and hold the [-] button, and use the numeric keypad to type in the (negative) value.

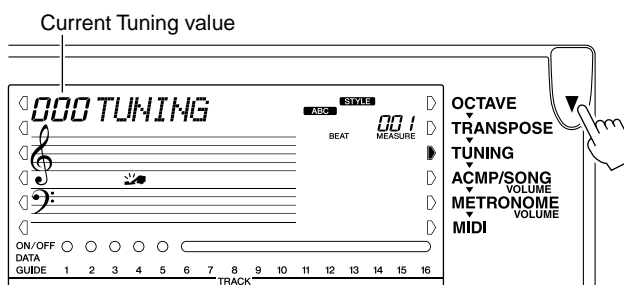


- You can instantly restore the default setting of "00" by pressing both [+]/[-] buttons simultaneously (when Transpose is selected).
- The Transpose function has no effect on the Drum Kits voices (#119–#128).
- If the Transpose value is adjusted (other than "00"), the ABC and DoReMi voices sound using Oboe voice.

## Tuning

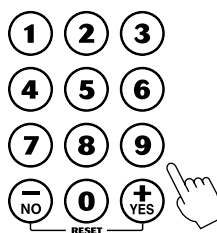
Tuning determines the fine pitch setting of both the main voice and the bass/chord accompaniment of the selected style. The Tuning settings can be adjusted over a range of  $\pm 100$  (approx.  $\pm 1$  semitone).

- 1 Press the right Overall button repeatedly to select "TUNING".



- 2 Press the numeric keypad or [+]/[-] buttons to set the desired Tuning value (-100 - +100).

To tune the pitch down, simultaneously press and hold the [-] button, and use the numeric keypad to type in the (negative) value.



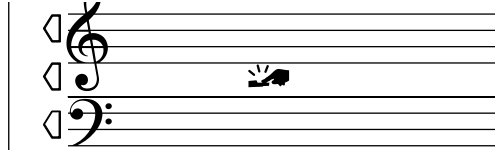
**Note**

- You can instantly restore the default setting of "000" by pressing both [+]/[-] buttons simultaneously (when Tuning is selected).
- The Tuning settings have no effect on the Drum Kit voices (#119-#128).

## Touch

The Touch function gives you dynamic, expressive control over the voices, letting you determine how loud or soft the sound is by your playing strength.

Turn the Touch function on or off as desired by pressing the [TOUCH] button.



Indicates Touch function is turned on.

## Touch Sensitivity

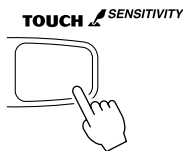
Touch Sensitivity lets you set how the EZ-30 responds to your playing strength, allowing you to customize this expressive function to suit your own playing style.

The higher the Touch Sensitivity setting, the more the sound volume changes in proportion to how strongly you play the keys.

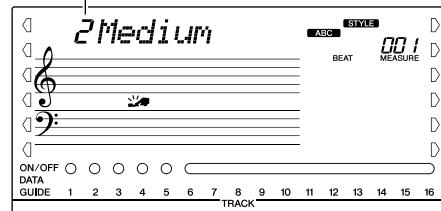


### Select the Touch Sensitivity control.

Press and hold the [TOUCH] button for more than one second to display the Touch Sensitivity setting.

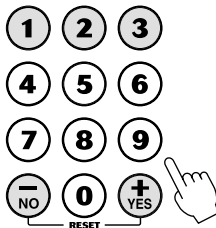


Current Touch Sensitivity setting



### Change the value.

Use the numeric keypad or [+]/[-] buttons to set the desired setting: 1, 2, or 3.



Settings:

|            |                                                                                                                                              |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 1 (Soft)   | This results in limited touch response, and produces a relatively narrow dynamic range, no matter how lightly or strongly you play the keys. |
| 2 (Medium) | This lets you play over a normal dynamic range (soft to loud).                                                                               |
| 3 (Hard)   | This is designed for playing very soft passages, giving you slightly more detailed control in the soft volume range.                         |

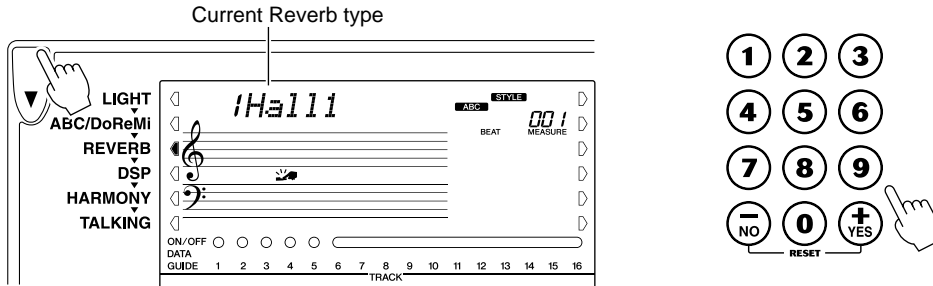


The default Touch Sensitivity is 2.

# Effects

## Reverb

Press the left Overall button repeatedly to select “Reverb,” and use the numeric keypad or the [+]/[-] buttons to select a Reverb type.



Selecting “9” turns the Reverb off.

### [Reverb Type List]

| No. | Reverb Type |
|-----|-------------|
| 1   | Hall 1      |
| 2   | Hall 2      |
| 3   | Room 1      |
| 4   | Room 2      |
| 5   | Stage 1     |
| 6   | Stage 2     |
| 7   | Plate 1     |
| 8   | Plate 2     |
| 9   | Off         |



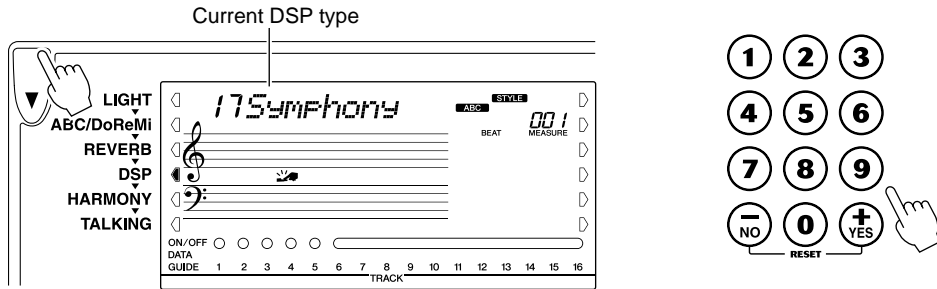
**Note**

- Each style of the EZ-30 has its own independent Reverb setting.
- You can instantly restore the default setting by pressing both [+]/[-] buttons simultaneously (when Reverb is selected).



# DSP

Press the left Overall button repeatedly to select “DSP,” and use the numeric keypad or the [+]/[-] buttons to select a DSP (Digital Signal Processor) type.



Selecting “39” turns the DSP off.

## [DSP Type List]

| No. | DSP Type           |
|-----|--------------------|
| 1   | Hall 1             |
| 2   | Hall 2             |
| 3   | Room 1             |
| 4   | Room 2             |
| 5   | Stage 1            |
| 6   | Stage 2            |
| 7   | Plate 1            |
| 8   | Plate 2            |
| 9   | Early Reflection 1 |
| 10  | Early Reflection 2 |
| 11  | Gate Reverb        |
| 12  | Reverse Gate       |
| 13  | Chorus 1           |
| 14  | Chorus 2           |
| 15  | Flanger 1          |
| 16  | Flanger 2          |
| 17  | Symphonic          |
| 18  | Phaser             |
| 19  | Rotary Speaker 1   |
| 20  | Rotary Speaker 2   |

| No. | DSP Type                    |
|-----|-----------------------------|
| 21  | Tremolo 1                   |
| 22  | Tremolo 2                   |
| 23  | Guitar Tremolo              |
| 24  | Auto Pan                    |
| 25  | Auto Wah                    |
| 26  | Delay Left - Center - Right |
| 27  | Delay Left - Right          |
| 28  | Echo                        |
| 29  | Cross Delay                 |
| 30  | Karaoke                     |
| 31  | Distortion Hard             |
| 32  | Distortion Soft             |
| 33  | Overdrive                   |
| 34  | Amp Simulation              |
| 35  | EQ Disco                    |
| 36  | EQ Telephone                |
| 37  | 3Band EQ                    |
| 38  | 2Band EQ                    |
| 39  | No Effect                   |



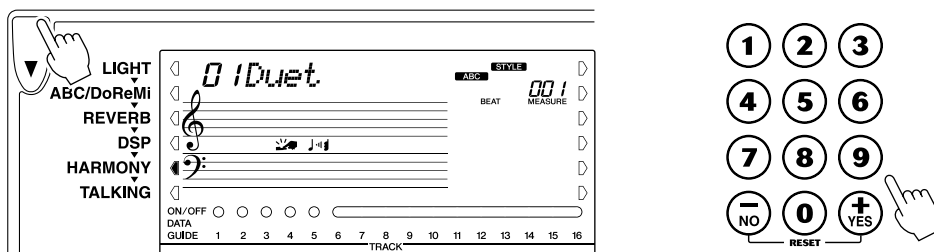
- Each voice of the EZ-30 has its own independent DSP setting.
- You can instantly restore the default setting by pressing both [+]/[-] buttons simultaneously (when DSP is selected).

## Harmony

The Harmony section features a variety of performance effects that enhance the melodies you play when using the accompaniment styles of the EZ-30.

Some Harmony types add harmony to a chord detected in the left-hand key range (accompaniment key range).

Press the left Overall button repeatedly to select “Harmony,” and use the numeric keypad or the [+]/[-] buttons to select a Harmony type.



Selecting “27” turns the Harmony section off.

### [Harmony Type List]

| No. | Harmony Type     |
|-----|------------------|
| 1   | Duet             |
| 2   | Trio             |
| 3   | Block            |
| 4   | Country          |
| 5   | Octave           |
| 6   | Trill 1/4 note   |
| 7   | Trill 1/6 note   |
| 8   | Trill 1/8 note   |
| 9   | Trill 1/12 note  |
| 10  | Trill 1/16 note  |
| 11  | Trill 1/24 note  |
| 12  | Trill 1/32 note  |
| 13  | Tremolo 1/4 note |
| 14  | Tremolo 1/6 note |

| No. | Harmony Type      |
|-----|-------------------|
| 15  | Tremolo 1/8 note  |
| 16  | Tremolo 1/12 note |
| 17  | Tremolo 1/16 note |
| 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     |
| 23  | Echo 1/12 note    |
| 24  | Echo 1/16 note    |
| 25  | Echo 1/24 note    |
| 26  | Echo 1/32 note    |
| 27  | Off               |



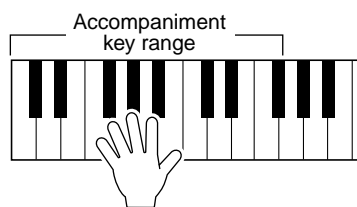
- Harmony types 1–5 add harmony that matches the accompaniment chords.
- The speed of the Trill, Tremolo, and Echo effects depends on the Tempo setting.
- For more information on Harmony Types, see page 97.
- Harmony is added to only one note. If you play multiple keys, harmony notes are added based on the highest note or the last note you played.
- The Harmony function is disabled when you use the Dictionary function or the Lesson function.
- You can instantly restore the default setting by pressing both [+]/[-] buttons simultaneously (when Harmony is selected).

# Auto Accompaniment

The EZ-30 provides dynamic rhythm/accompaniment patterns - as well as voice settings appropriate for each pattern - for various popular music styles. A total of 106 different styles are available, in several different categories.

With the auto accompaniment function, the EZ-30 automatically plays accompaniment parts (bass sound and chords) that match the selected style and the chords played in the accompaniment key range.

Select the desired accompaniment style and play the keyboard using the auto accompaniment function.



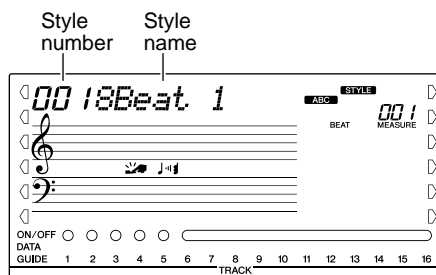
|                                          |                                                            |
|------------------------------------------|------------------------------------------------------------|
| <b>Select an accompaniment style.</b>    | Selecting a Style..... page 51                             |
| <b>Start the accompaniment.</b>          | Starting Accompaniment ..... page 52                       |
| <b>Play chords (left hand).</b>          | Using Auto Accompaniment..... page 55                      |
| <b>Play melody (right hand).</b>         | Playing a Melody along with the Accompaniment..... page 61 |
| <b>Change the accompaniment section.</b> | Changing the Accompaniment Section..... page 62            |
| <b>Stop the accompaniment.</b>           | Stopping the Accompaniment..... page 54                    |

## Selecting a Style



Press the [STYLE] button.

STYLE

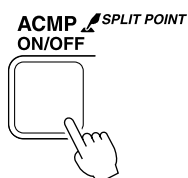


Select the desired style number.

Use the numeric keypad to directly enter the style number, or use the [+]/[-] buttons to step up and down through the styles (page 25).

## Starting Accompaniment

Press the [ACMP ON/OFF] button to turn the auto accompaniment function on.



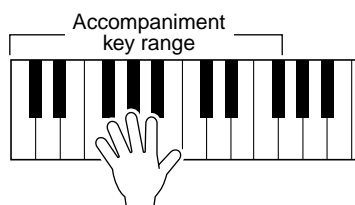
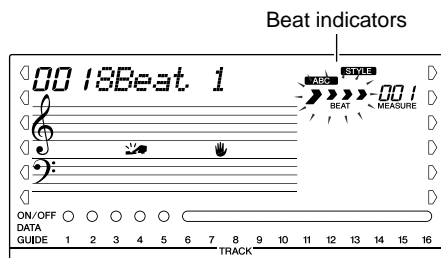
Accompaniment on indicator

You can start playing accompaniment using one of the following four methods.

### Sync start

Press the [SYNC START] button. The EZ-30 enters Sync start waiting mode, and the beat indicators flash.

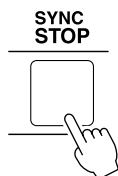
When you start playing chords in the accompaniment key range, the accompaniment starts playing.



To cancel Sync start waiting mode, press the [SYNC START] button again. At this time, playing a chord in the accompaniment key range will produce bass sounds and chords without a rhythm section.

### Sync stop

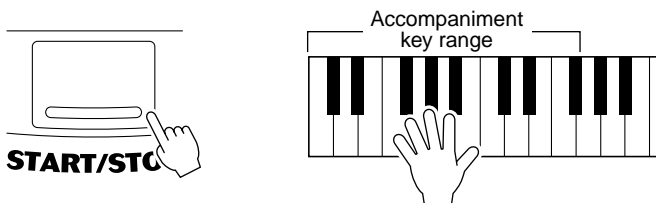
When you press the [SYNC STOP] button, the EZ-30 enters Sync start mode. When you release keys in the accompaniment key range, the accompaniment stops and the EZ-30 enters Sync start waiting mode.



Sync stop indicator

## Start

As soon as you press the [START/STOP] button, the rhythm part starts playing. When you play a chord in the accompaniment key range, the EZ-30 produces the bass and chords.



When you press the [START/STOP] button, only the rhythm part of the selected accompaniment starts playing. If any of accompaniment styles 97–106 (Accompaniment category: PIANIST) is selected, no rhythm part sounds.

## Tap start

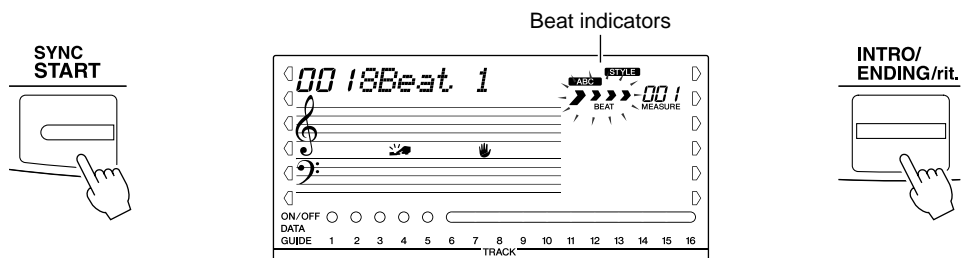
Press the [TEMPO/TAP] button four times for a four-beat song and three times for a three-beat song at a tempo at which you would like to play. The rhythm part starts playing.



## Intro Sync start

Press the [SYNC START] button. The EZ-30 enters Sync start waiting mode, and the beat indicators flash. Then press the [INTRO/ENDING] button. The EZ-30 waits for the sync start that begins with an Intro section.

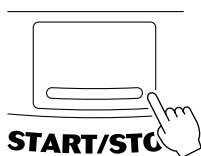
When you play a chord in the accompaniment key range, the accompaniment starts with an Intro section, followed by the Main A (or B) accompaniment section.



## Stopping the Accompaniment

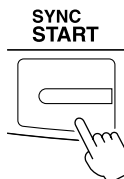
You can stop the accompaniment playback using one of the following three methods.

- Press the [START/STOP] button.



The accompaniment stops immediately.

- Press the [SYNC START] button.



The accompaniment stops immediately. All beat indicators flash and the EZ-30 enters Sync start waiting mode.

- Press the [INTRO/ENDING] button.



The accompaniment stops after the ending section.

## Changing the Tempo

The tempo of style playback can be adjusted over a range of 32–280 bpm (beats per minute).



- Press the [TEMPO/TAP] button.

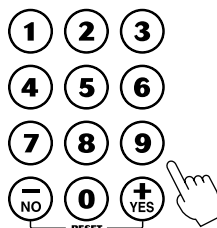


Current Tempo value

120 TEMPO



- Press the numeric keypad or [ + ]/[ - ] buttons to set the desired value.



You can also use the convenient Tap Tempo function to change the tempo by “tapping” a new one in real time (page 31).



- When the rhythm part is stopped or Voice #000 is selected, selecting an accompaniment style automatically sets a tempo suitable for the accompaniment. If any voice other than Voice #000 is selected, changing the accompaniment during playback will not automatically change the tempo.
- You can instantly restore the default setting by pressing both [ + ]/[ - ] buttons simultaneously (when Tempo is selected).





## Using Auto Accompaniment—Multi Fingering

When it is set to on (page 52), the auto accompaniment function automatically generates bass and chord accompaniment for you to play along with, by using Multi Fingering operation. You can change the chords of the accompaniment by playing keys in the auto accompaniment key range using either the “Single Finger” or “Fingered” method. With Single Finger you can simply play a one-, two- or three-finger chord indication (see “Single Finger Chords” below). The Fingered technique is that of conventionally playing all the notes of the chord.

Whichever method you use, the EZ-30 “understands” what chord you indicate and then automatically generates the accompaniment.

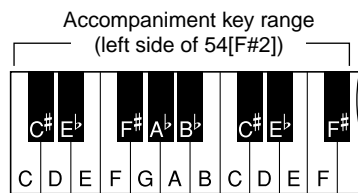
### Single Finger Chords

Chords that can be produced in Single Finger operation are major, minor, seventh and minor seventh. The illustration shows how to produce the four chord types. (The key of C is used here as an example; other keys follow the same rules. For example, B $\flat$ 7 is played as B $\flat$  and A.)

|                                                                                     |                                                                                                                                                            |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <b>C</b><br>To play a major chord: Press the root note of the chord.                                                                                       |
|   | <b>Cm</b><br>To play a minor chord: Press the root note together with the nearest black key to the left of it.                                             |
|  | <b>C7</b><br>To play a seventh chord: Press the root note together with the nearest white key to the left of it.                                           |
|  | <b>Cm7</b><br>To play a minor seventh chord: Press the root note together with the nearest white and black keys to the left of it (three keys altogether). |



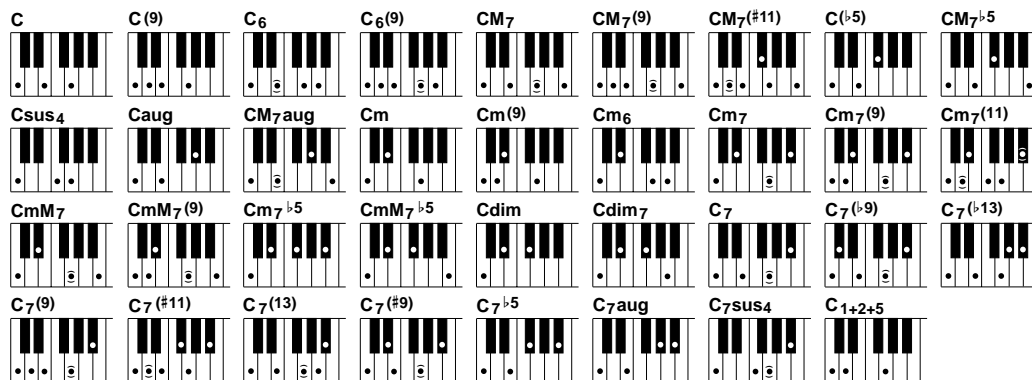
A root key and keys you play



## Fingered Chords

Using the key of C as an example, the chart below shows the types of chords that can be recognized in the Fingered mode.

### • Example for “C” chords



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

| Chord Name/[Abbreviation]                  | Normal Voicing                                          | Chord (C) | Display  |
|--------------------------------------------|---------------------------------------------------------|-----------|----------|
| Major [M]                                  | 1 - 3 - 5                                               | C         | C        |
| Add ninth [(9)]                            | 1 - 2 - 3 - 5                                           | C(9)      | C(9)     |
| Sixth [6]                                  | 1 - (3) - 5 - 6                                         | C6        | C6       |
| Sixth ninth [6(9)]                         | 1 - 2 - 3 - (5) - 6                                     | C6(9)     | C6(9)    |
| Major seventh [M7]                         | 1 - 3 - (5) - 7 or<br>1 - (3) - 5 - 7                   | CM7       | CM7      |
| Major seventh ninth [M7(9)]                | 1 - 2 - 3 - (5) - 7                                     | CM7(9)    | CM7(9)   |
| Major seventh add sharp eleventh [M7(#11)] | 1 - (2) - 3 - #4 - 5 - 7 or<br>1 - 2 - 3 - #4 - (5) - 7 | CM7(#11)  | CM7(#11) |
| Flatted fifth [(b5)]                       | 1 - 3 - b5                                              | C(b5)     | Cb5      |
| Major seventh flatted fifth [M7b5]         | 1 - 3 - b5 - 7                                          | CM7b5     | CM7b5    |
| Suspended fourth [sus4]                    | 1 - 4 - 5                                               | Csus4     | Csus4    |
| Augmented [aug]                            | 1 - 3 - #5                                              | Caug      | Caug     |
| Major seventh augmented [M7aug]            | 1 - (3) - #5 - 7                                        | CM7aug    | CM7aug   |
| Minor [m]                                  | 1 - b3 - 5                                              | Cm        | Cm       |
| Minor add ninth [m(9)]                     | 1 - 2 - b3 - 5                                          | Cm(9)     | Cm(9)    |
| Minor sixth [m6]                           | 1 - b3 - 5 - 6                                          | Cm6       | Cm6      |
| Minor seventh [m7]                         | 1 - b3 - (5) - b7                                       | Cm7       | Cm7      |
| Minor seventh ninth [m7(9)]                | 1 - 2 - b3 - (5) - b7                                   | Cm7(9)    | Cm7(9)   |
| Minor seventh add eleventh [m7(11)]        | 1 - (2) - b3 - 4 - 5 - (b7)                             | Cm7(11)   | Cm7(11)  |



| Chord Name/[Abbreviation]                   | Normal Voicing                                            | Chord (C) | Display |
|---------------------------------------------|-----------------------------------------------------------|-----------|---------|
| Minor major seventh [mM7]                   | 1 - ♭3 - (5) - 7                                          | CmM7      | CmM7    |
| Minor major seventh ninth [mM7(9)]          | 1 - 2 - ♭3 - (5) - 7                                      | CmM7(9)   | CmM7(9) |
| Minor seventh flattened fifth [m7♭5]        | 1 - ♭3 - ♭5 - ♭7                                          | Cm7♭5     | Cm7♭5   |
| Minor major seventh flattened fifth [mM7♭5] | 1 - ♭3 - ♭5 - 7                                           | CmM7♭5    | CmM7♭5  |
| Diminished [dim]                            | 1 - ♭3 - ♭5                                               | Cdim      | Cdim    |
| Diminished seventh [dim7]                   | 1 - ♭3 - ♭5 - 6                                           | Cdim7     | Cdim7   |
| Seventh [7]                                 | 1 - 3 - (5) - ♭7 or<br>1 - (3) - 5 - ♭7                   | C7        | C7      |
| Seventh flattened ninth [7(♭9)]             | 1 - ♭2 - 3 - (5) - ♭7                                     | C7(♭9)    | C7(♭9)  |
| Seventh add flattened thirteenth [7(♭13)]   | 1 - 3 - 5 - ♭6 - ♭7                                       | C7(♭13)   | C7(♭13) |
| Seventh ninth [7(9)]                        | 1 - 2 - 3 - (5) - ♭7                                      | C7(9)     | C7(9)   |
| Seventh add sharp eleventh [7(#11)]         | 1 - (2) - 3 - #4 - 5 - ♭7 or<br>1 - 2 - 3 - #4 - (5) - ♭7 | C7(#11)   | C7(#11) |
| Seventh add thirteenth [7(13)]              | 1 - 3 - (5) - 6 - ♭7                                      | C7(13)    | C7(13)  |
| Seventh sharp ninth [7(#9)]                 | 1 - #2 - 3 - (5) - ♭7                                     | C7(#9)    | C7(#9)  |
| Seventh flattened fifth [7♭5]               | 1 - 3 - ♭5 - ♭7                                           | C7♭5      | C7♭5    |
| Seventh augmented [7aug]                    | 1 - 3 - #5 - ♭7                                           | C7aug     | C7aug   |
| Seventh suspended fourth [7sus4]            | 1 - 4 - (5) - ♭7                                          | C7sus4    | C7sus4  |
| One plus two plus five [1+2+5]              | 1 - 2 - 5                                                 | C1+2+5    | C       |

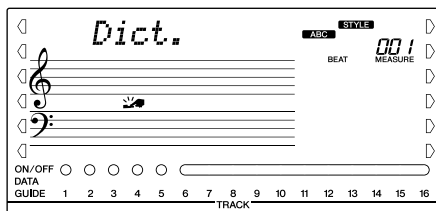
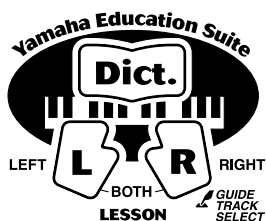


- Notes in parentheses can be omitted.
- A perfect fifth (1 + 5) produces accompaniment based only on the root and fifth which can be used with both major and minor chords.
- Playing two same root keys in the adjacent octaves produces accompaniment based only on the root.
- The chord fingerings listed 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.
- Inversion of the 7sus4 and m7(11) chords are not recognized if the notes shown in parentheses are omitted.
- 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.
- The split point for the auto accompaniment function is the same as that for the split voices. (See page 44.)

## Looking up Chords in the 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.

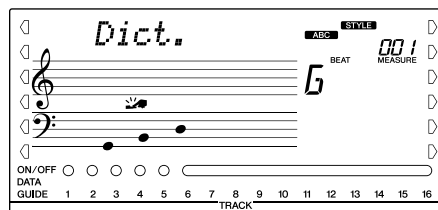
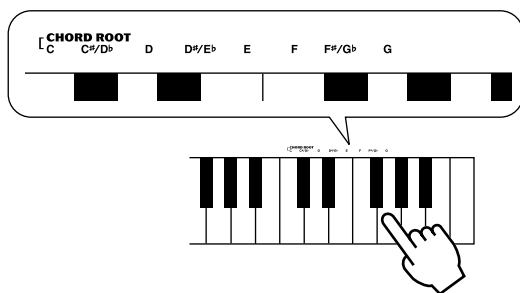
**1** Press the [Dict.] button.



**2** Specify the root of the chord.

Press the key on the keyboard that corresponds to the desired chord root (as printed on the panel).

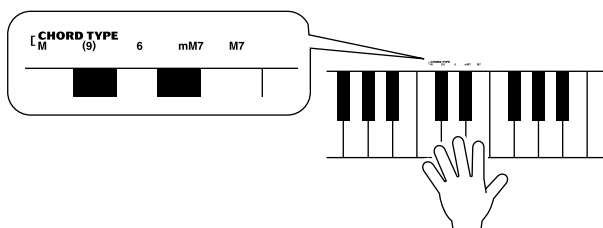
Pressing this key selects the root G.



**3** Specify the type of the chord (major, minor, seventh, etc.).

Press the key on the keyboard that corresponds to the desired chord type (as printed on the panel).

In this example, play M7 keys.



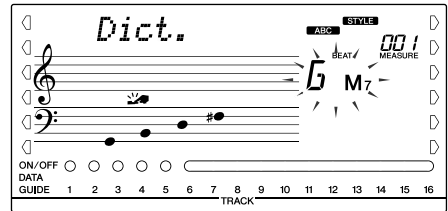
- Usually, a Major chord name is represented by a root note name. E.g., “C” represents C Major.
- If you press [+]/[-] buttons, another inversion will be indicated.

# 4

## Play a chord, following the Light Guide.

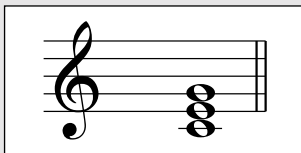
The display indicates the notes of the GM7 chord, and the Light Guide indicates which keys to play on the keyboard.

The chord name flashes in the display (and a “congratulations” melody is played) when the correct notes are held down.



### ..... What is a Chord? .....

**The simple answer:** Three or more notes played simultaneously is a chord. (Two notes played together is an “interval” — an interval being the distance between two different notes. This is also referred to as a “harmony.”) Depending on the intervals between the three or more notes, a chord can sound beautiful or muddy and dissonant.



The organization of notes in the example at left — a triad chord — produces a pleasant, harmonious sound. Triads are made up of three notes and are the most basic and common chords in most music.

In this triad, the lowest note is the “root.” The root is the most important note in the chord, because it anchors the sound harmonically by determining its “key” and forms the basis for how we hear the other notes of the chord.

The second note of this chord is four semitones higher than the first, and the third is three semitones higher than the second. Keeping our root note fixed and changing these notes by a semitone up or down (sharp or flat), we can create four different chords.

|                                       |                                        |                                              |                                               |
|---------------------------------------|----------------------------------------|----------------------------------------------|-----------------------------------------------|
| <p><b>Major chord</b><br/>(ex. C)</p> | <p><b>Minor chord</b><br/>(ex. Cm)</p> | <p><b>Augmented chord</b><br/>(ex. Caug)</p> | <p><b>Diminished chord</b><br/>(ex. Cdim)</p> |
|---------------------------------------|----------------------------------------|----------------------------------------------|-----------------------------------------------|

Keep in mind that we can also change the “voicing” of a chord — for example, change the order of the notes (called “inversions”), or play the same notes in different octaves — without changing the basic nature of the chord itself.

### Inversion examples for the key of C

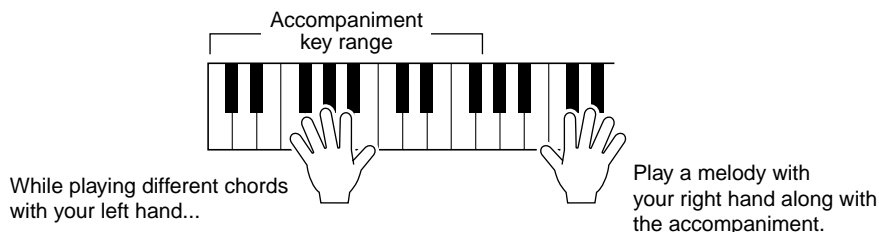


Beautiful sounding harmonies can be built in this manner. The use of intervals and chords is one of the most important elements in music. A wide variety of emotions and feelings can be created depending on the types of chords used and the order in which they are arranged.



## Playing a Melody along with the Accompaniment

You can play a melody along with the accompaniment.



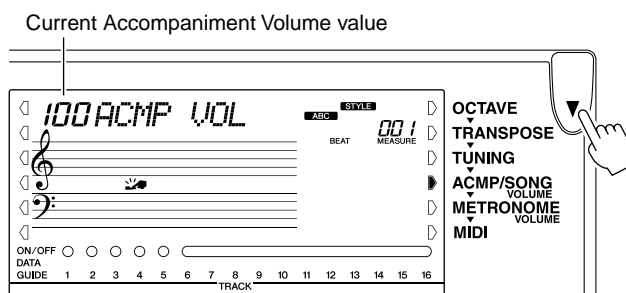
Set a tempo you feel comfortable with. (See page 54.)

## Adjusting the Accompaniment Volume

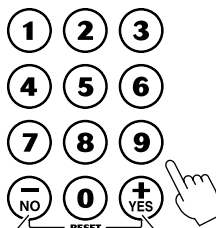
The playback volume of the accompaniment can be adjusted. This volume control affects only the accompaniment volume.



Press the right Overall button repeatedly until “ACMP VOL” appears in the display.



Press the numeric keypad or [+] / [-] buttons to set the desired Accompaniment Volume value (000–127).



The value decreases and the volume level is lowered.

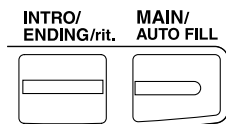
The value increases and the volume level is raised.



- You can instantly restore the default setting of “100” by pressing both [+] / [-] buttons simultaneously (when Accompaniment Volume is selected).
- Accompaniment Volume cannot be changed unless the Style mode is active.

## Changing the Accompaniment Section

Accompaniment consists of Intro, Main A/B (Fill-in), and Ending sections. Using different sections based on the structure of songs enables you to enhance musical expression.



### Intro

Press the [INTRO/ENDING] button before you start playing to select an Intro section. The Intro section is followed by the Main section.



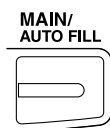
Press the button before the rhythm part starts.

Press the [MAIN/AUTO FILL] button before pressing the [START/STOP] button to specify the Main section that follows the Intro section.

To cancel the Intro section, press the [INTRO/ENDING] button again. The display indicates the Main section (A or B) that will be played when the song starts.

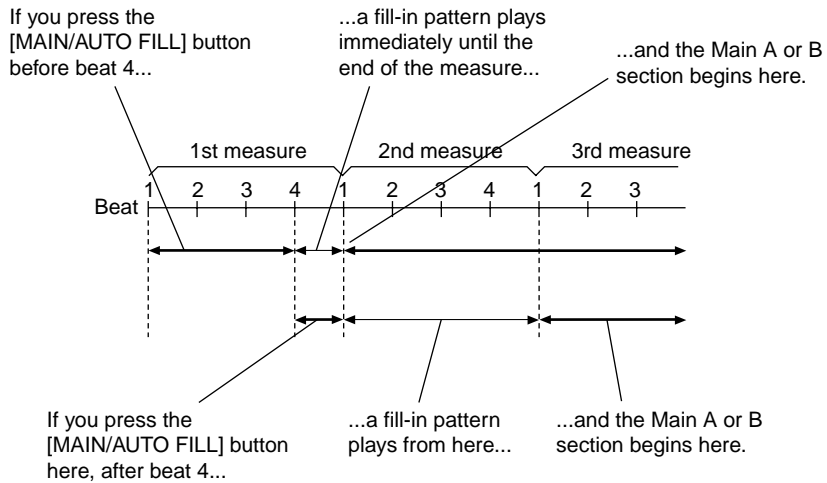
### Main

There are two Main sections, A and B. When you press the [MAIN/AUTO FILL] button, the EZ-30 plays the Fill-in pattern, then changes to another variation.



**Note** You can also assign the accompaniment sections by pressing the [MAIN/AUTO FILL] button before the song starts (while the rhythm part is stopped).

## About the Fill-in Patterns



## Ending

When you press the [INTRO/ENDING] button at the end of the song, the EZ-30 plays the Ending section appropriate for the song, then stops the performance.



### Ritardando (rit.)

If you press the [INTRO/ENDING] button during the Ending section, the song gets slower little by little and then stops.

# Registration Memory

Registration Memory is a flexible and convenient function that lets you instantly reconfigure virtually all settings of the EZ-30 with the touch of a single button. Simply save your favorite custom panel settings to one of the Registration Memory presets (up to sixteen are available) for future recall.

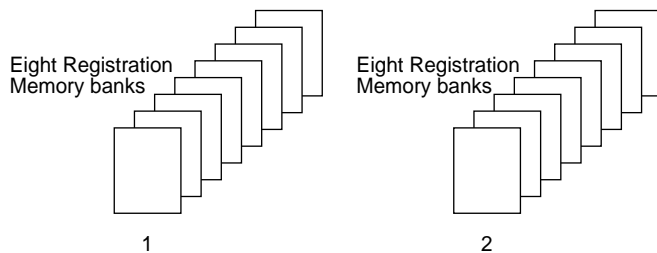
## Recording a Registration Memory Preset

Each of the sixteen Registration Memory can have different settings for the following parameters:

- Voice number
- Split Point
- Split On/Off
- Reverb Type
- DSP Type
- Harmony On/Off setting and Type
- Style number \*
- Accompaniment On/Off \*
- MAIN A/B \*
- Accompaniment Split Point \*
- Accompaniment volume \*
- Tempo \*
- Transpose

\* These settings are disabled with the songs.

The EZ-30 has eight Registration Memory banks, each with two different presets (a total of sixteen).



### 1 Make all desired settings for the EZ-30.

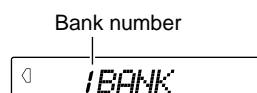
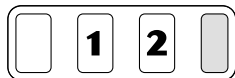
Virtually all of the EZ-30's settings can be saved to a Registration Memory button.



### 2 Select the desired bank.

Press the [BANK] button, then press the desired bank number (1–8).

REGISTRATION MEMORY  
MEMORY 1 2 BANK x8



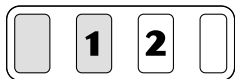


3

**Record the settings to the desired preset, 1 or 2.**

While holding down the [MEMORY] button, press the appropriate **REGISTRATION MEMORY** preset button, [1] or [2].

REGISTRATION MEMORY  
MEMORY 1 2 BANK x8



Bank number



 If you select a REGISTRATION MEMORY preset button to which data has already been recorded, the existing data will be overwritten and deleted.

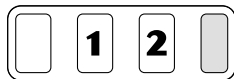
## Recalling a Registration Memory Preset

1

**Select the appropriate Registration Memory bank.**

 If you recall settings from a Registration Memory preset, the current panel settings will be lost. Save important panel settings to another Registration Memory preset.

REGISTRATION MEMORY  
MEMORY 1 2 BANK x8



1 2 3

4 5 6

7 8 9

NO 0 YES

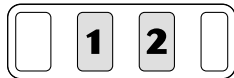
RESET



2

**Press the desired Registration Memory preset button ([1] or [2]).**

REGISTRATION MEMORY  
MEMORY 1 2 BANK x8



# Song Recording

The EZ-30's Song Memory function enables you to record up to five songs of your performance as User songs (Song #201–205: User 1–5).

You can also play the recorded songs in the same way as the preset songs.

## Recording a User Song

The EZ-30 lets you play and record the individual parts of your own song in real time. You can record your performance to six tracks per User song (1–5).

- **Melody tracks [1]–[5]** .....Record melody to these tracks.
- **Accompaniment track [A]**.....Record chords to this track.

### Data that can be recorded to the normal (melody) tracks:

- Note on/off
- Velocity
- Voice Number
- Reverb Type \*
- DSP Type \*
- Sustain
- Tempo \*, Time Signature \* (if no data is recorded in the accompaniment track)

### Data that can be recorded to the accompaniment track:

- Chord changes and timing
- Changing sections (Intro, Main A/B, etc.)
- Style number \*
- Accompaniment Volume \*
- Reverb Type \*
- DSP Type \*
- Tempo, Time Signature \*

\* These settings can only be recorded once at the beginning of a song; other settings can be changed in the middle of a song.

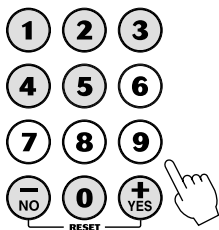


- Note that song data will be lost if you turn off the power to the EZ-30, unplug the power adaptor from the AC outlet, or if the battery fully discharges while you are recording.
- Song Memory Capacity:  
Maximum number of notes: approximately 10,000 (when only “melody” tracks are recorded)  
Maximum number of chords: approximately 5,500 (when only the accompaniment track is recorded)



## Select a User song for recording.

Use the numeric keypad or [+]/[-] buttons to select the desired song: 201–205.



REC User 2



### Note

If no song is manually selected, the EZ-30 automatically selects the first available empty song number.

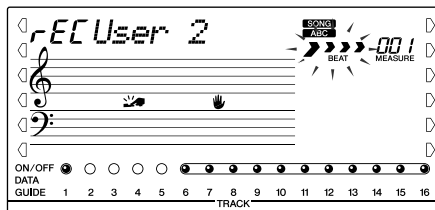
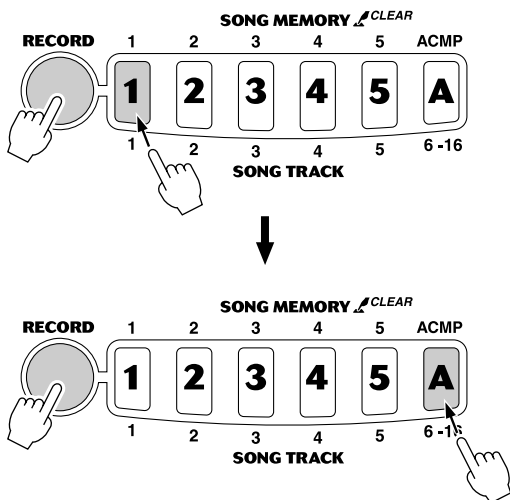


## Select a track number for recording.

Check the display for the track DATA indicators and select an unrecorded track.

### ● Recording a melody track and an accompaniment track at the same time:

While pressing and holding down the [RECORD] button, press the desired SONG MEMORY button [1]–[5] and [A] button.



Keep in mind that all recording operations “replace” the data.

In other words, if you record to a track that already has recorded data, all previous data in the track will be erased and replaced by the newly recorded data.

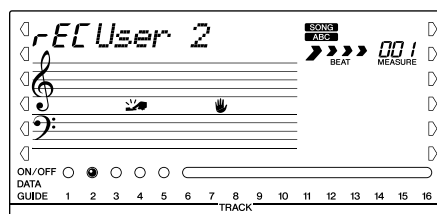
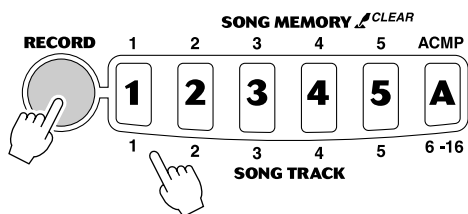


### Note

- If you select the accompaniment track for recording, the auto accompaniment function is automatically enabled.
- You cannot turn the auto accompaniment function on or off after recording has started.
- If you are recording using a split voice, the voice below the split point will not be recorded.

## ● Recording a melody track:

While pressing and holding down the [RECORD] button, select the desired melody track button (1–5). The selected track's number flashes on the display.



**Note**

- If auto accompaniment is turned on and the accompaniment track is not recorded, a melody track and the accompaniment track will automatically be selected as recording tracks. If you wish to record only the accompaniment track, press the button for the flashing melody track indicator to deselect the melody track. The melody track indicator is turned off.
- To cancel recording, press the button for the flashing track indicator. The track indicator is turned off.

**3**

### Start recording.

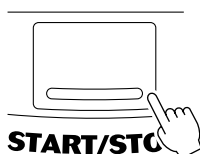
You can start recording simply by playing the keyboard (or by pressing the [START/STOP] button).

The current measure number is indicated on the display during recording.

**4**

### Stop recording.

After you've finished playing the part, press the [START/STOP] or [RECORD] button.



or



When you press the [INTRO/ENDING] button while recording the accompaniment track, the EZ-30 plays the Ending section and stops recording.

When recording is finished, the measure number on the display is reset to "001" and the recorded tracks DATA indicators light up.

**5**

### Record to other tracks as desired.

To do this, simply repeat steps #2–#4 above. Make sure that when you press the [SONG MEMORY] button corresponding to the desired track, the track number in the display flashes.

## ● Re-recording...

Select the recorded tracks as recording tracks.

When you start recording, the new performance will overwrite the existing data. (The existing data will be deleted and replaced with new data.)

## Erasing a Song

### Song Clear

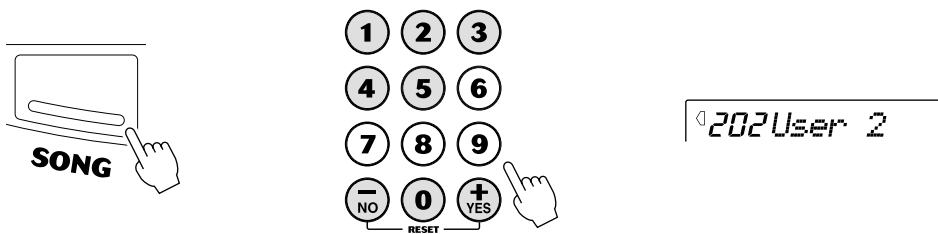
The Song Clear operation completely erases all recorded data on all tracks of a selected User song.



To erase an individual track of a song while leaving the other tracks intact, use the Track Clear operation (page 70).

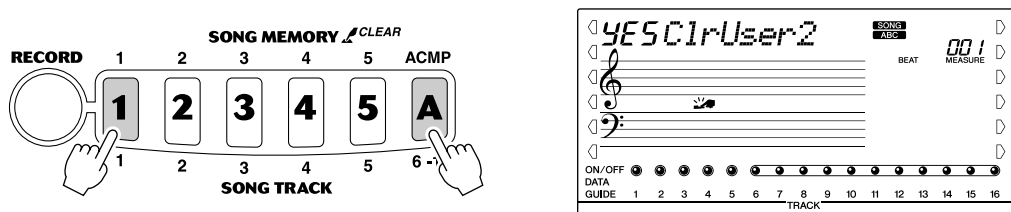
#### 1 Select the desired song.

Press the [SONG] button, then use the numeric keypad or [+]/[-] buttons to select the desired song (201–205).



#### 2 While holding down the [A] button, press SONG MEMORY button [1].

All track indications in the display flash, indicating that all tracks are to be erased.



#### 3 Press the [+]/YES button.

YES Sure?

#### 4 At the “Sure?” prompt, press the [+]/YES button, or press the [-]/NO button to abort.

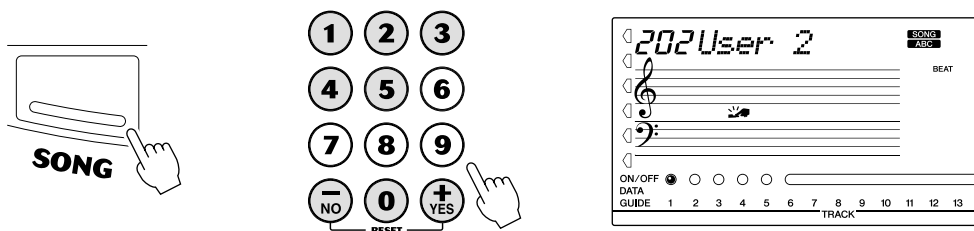
Pressing the [+]/YES button executes the Song Clear operation. Pressing the [-]/NO button aborts.

## Track Clear

The Track Clear operation completely erases all recorded data on a selected track of a selected User song, leaving the other tracks intact.

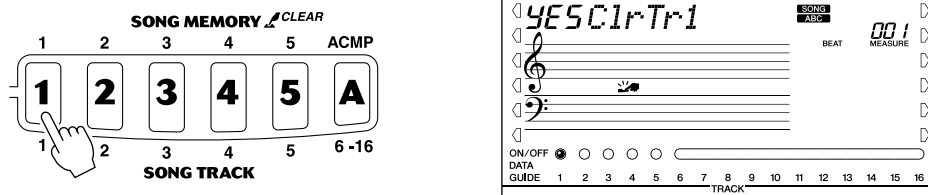
### 1 Select the desired song.

Press the **[SONG]** button, then use the numeric keypad or **[+]/[-]** buttons to select the desired song (201–205).



### 2 Press and hold down the button corresponding to the track to be erased.

Press and hold down the appropriate **SONG MEMORY** button (**[1]–[5]**, **[A]**) for at least one second.



### 3 Press the **[+]/YES** button.

### 4 At the “Sure?” prompt, press the **[+]/YES** button, or press the **[–]/NO** button to abort.

Pressing the **[+]/YES** button executes the Track Clear operation. Pressing the **[–]/NO** button aborts.

# Loading a Song into Flash Memory

The EZ-30's internal flash memory enables you to save song data transmitted from a connected personal computer. You can play or practice Flash songs (saved in flash memory) in the same way as preset songs.

To transmit song data from a personal computer to the EZ-30, you first need to install "Song Filer" application on the computer.

## **Song data that can be saved in flash memory:**

**The number of songs:** max. 99 songs (Song #101–)

**Available memory:** 488 KB

**Data format:** SMF

## **Installing Song Filer**

You can download "Song Filer" application from the following Yamaha PK CLUB website. Make sure that your computer has an Internet connection.

**Yamaha PK CLUB (Portable Keyboard Home Page)**

<http://www.yamahaPKclub.com/>

### **System requirements for Song Filer:**

#### **[Windows]**

**OS:** Windows 95/98/Me/2000

**CPU:** Pentium/100MHz or faster

**Available Memory:** 8MB or more

**Free space in Hard Disk:** 2MB or more

**Display:** 800 x 600, 256 colors or more

#### **[Macintosh]**

**OS:** Mac OS 7.5 or upper

**CPU:** Power PC or upper

**Available Memory:** 8MB or more

**Free space in Hard Disk:** 2MB or more

**Display:** 800 x 600, 256 colors or more



Visit the Yamaha PK CLUB website for more information on the latest version of Song Filer and the installation method.

## Song Filer's Functions

After you install Song Filer on the computer and connect the EZ-30 to the computer, you can use the two functions described below.

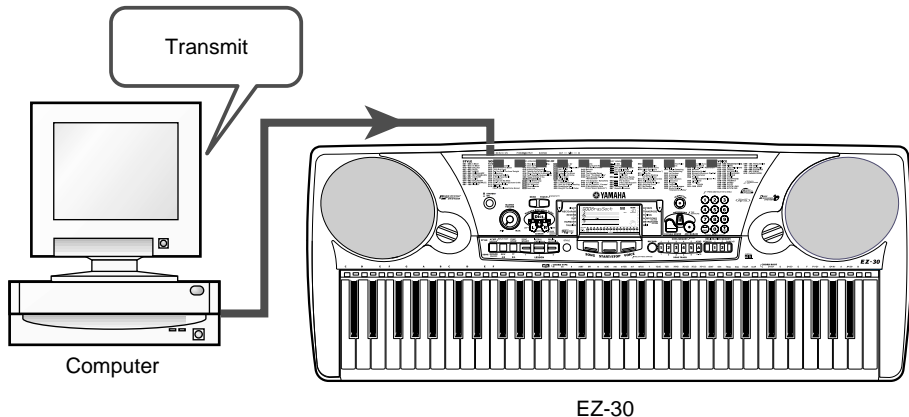


### Note

- Refer to page 78 for information on connecting the EZ-30 to a computer.
- You cannot use the Song Filer's "Receive Files" function with the EZ-30.
- For more information on using Song Filer, refer to the PDF manual included in the Song Filer application.

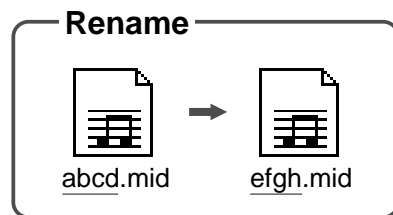
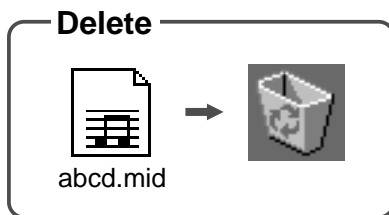
### ● Transmit Files

You can transmit song files from your computer to your EZ-30's Flash Memory.



### ● Manage Files on Flash Memory

You can delete and rename files on your EZ-30's Flash Memory using your computer.

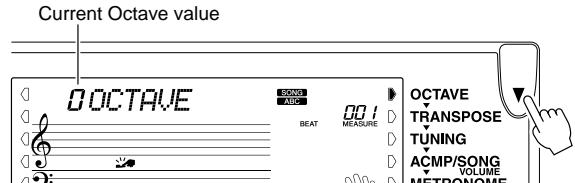




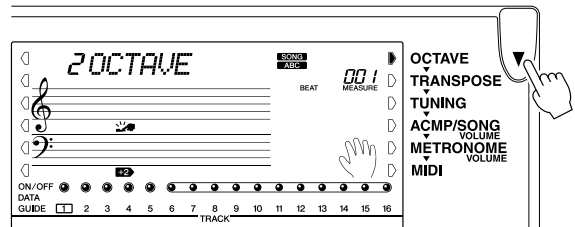
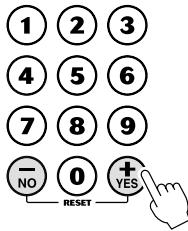
# Octave

If the notes in a Flash song are outside the EZ-30's key range (C1–C6), You can change their pitch in octave steps so that you can use the Lesson function. If the **OVER** indicator appears in the lower-left of the display during playback of flash songs, follow the procedure:

- 1 Stop the song, and press the right Overall button to select "OCTAVE".



- 2 Press the [+]/[-] buttons to set the desired Octave value (-2 - +2) until the **OVER** indicator disappears.

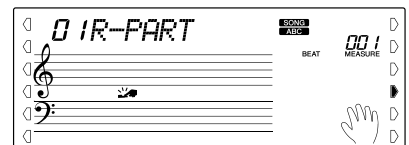
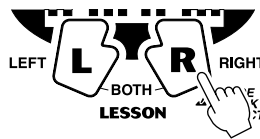


- You can instantly restore the default setting of "0" by pressing both [+]/[-] buttons simultaneously (when Octave is selected).
- You can set the Octave function only for the Flash songs.

## Selecting a right/left-hand guide track

You can select a track that guides your right and left hand fingering during the Lesson (See page 34). This function is available only when you select a flash memory song (SMF format 0).

1. While the song is stopped, press and hold down the **LESSON [R]** or **[L]** button to select the desired part.



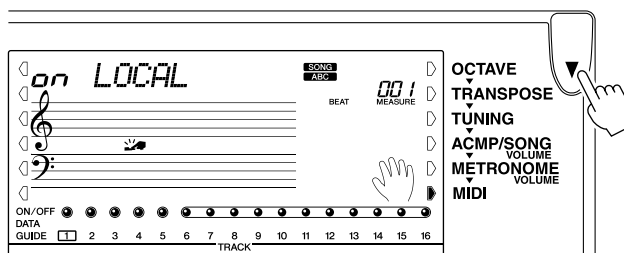
A frame appears around the number of the GUIDE track.

2. Press the numeric keypad or [+]/[-] buttons to select a lesson track number.

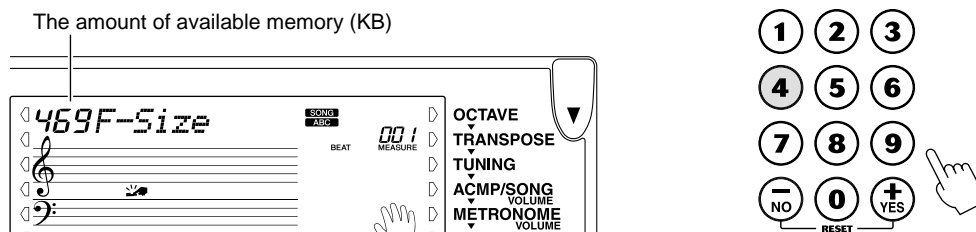


## Available Flash Memory Amount

- 1 Press the right Overall button repeatedly to select "MIDI".



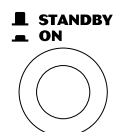
- 2 Press the [4] button to display "F-SIZE." The amount of available memory is indicated in KB.



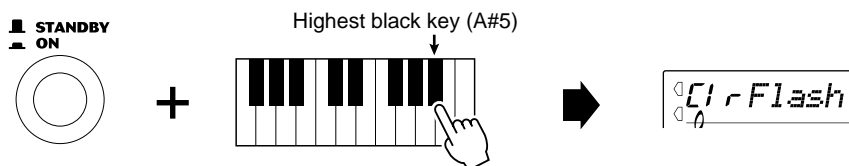
## Flash Clear

All data in flash memory (Song #101-) can be initialized.

- 1 Press the [STANDBY/ON] switch to turn off the power to the EZ-30.



- 2 While holding down the highest black key (A#5), press the [STANDBY/ON] switch to turn on the power to the EZ-30. The flash memory will be initialized. When the initialization is complete, the EZ-30 indicates "ClrFlash" on the display.



See page 84 for information on initializing the panel settings.

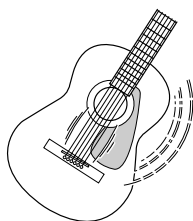
# MIDI Functions

The EZ-30 is MIDI-compatible, featuring MIDI IN and MIDI OUT terminals and providing a variety of MIDI-related controls. By using the MIDI functions you can expand your musical possibilities. This section explains what MIDI is, and what it can do, as well as how you can use MIDI on your EZ-30.

## What is MIDI?

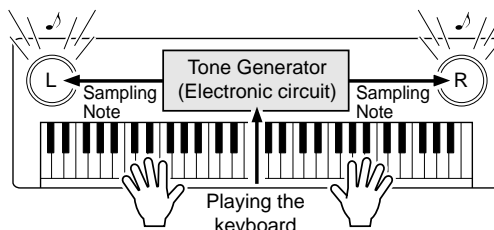
No doubt you have heard the terms “acoustic instrument” and “digital instrument.” In the world today, these are the two main categories of instruments. Let’s consider an acoustic piano and a classical guitar as representative acoustic instruments. They are easy to understand. With the piano, you strike a key, and a hammer inside hits some strings and plays a note. With the guitar, you directly pluck a string and the note sounds. But how does a digital instrument go about playing a note?

### • Acoustic guitar note production



Pluck a string and the body resonates the sound.

### • Digital instrument note production



Based on playing information from the keyboard, a sampling note stored in the tone generator is played through the speakers.

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 EZ-30 keyboard. Unlike an acoustic instrument that puts out a resonated note, the electronic instrument puts out information from the keyboard such as “with what voice,” “with which key,” “about how strong,” “when was it pressed,” and “when was it released.” Then each piece of information is changed into a number value and sent to the tone generator. Using these numbers as a basis, the tone generator plays the stored sampling note.

### Example of Keyboard Information

|                                                                   |                                             |
|-------------------------------------------------------------------|---------------------------------------------|
| Voice number (with what voice)                                    | 01 (grand piano)                            |
| Note number (with which key)                                      | 60 (C3)                                     |
| Note on (when was it pressed) and note off (when was it released) | Timing expressed numerically (quarter note) |
| Velocity (about how strong)                                       | 20 (strong)                                 |

# MIDI Functions

MIDI is an acronym that stands for Musical Instrument Digital Interface, which allows electronic musical instruments to communicate with each other, by sending and receiving compatible Note, Control Change, Program Change and various other types of MIDI data, or messages.

The EZ-30 can control a MIDI device by transmitting note related data and various types of controller data. The EZ-30 can be controlled by the incoming MIDI messages which automatically determine tone generator mode, select MIDI channels, voices and effects, change parameter values and of course play the voices specified for the various parts.

MIDI messages can be divided into two groups: Channel messages and System messages. Below is an explanation of the various types of MIDI messages which the EZ-30 can receive/transmit.

## Channel Messages

The EZ-30 is an electronic instrument that can handle 16 channels. This is usually expressed as “it can play 16 instruments at the same time.” Channel messages transmit information such as Note ON/OFF, Program Change, for each of the 16 channels.

| Message Name   | EZ-30 Operation/Panel Setting                                                                                                                                                                                    |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note ON/OFF    | Messages which are generated when the keyboard is played. Each message includes a specific note number which corresponds to the key which is pressed, plus a velocity value based on how hard the key is struck. |
| Program Change | Voice number (along with corresponding bank select MSB/LSB settings, if necessary).                                                                                                                              |
| Control Change | Messages that are used to change some aspect of the sound (modulation, 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      | EZ-30 Operation/Panel Setting         |
|-------------------|---------------------------------------|
| Exclusive Message | Reverb/chorus/DSP settings, etc.      |
| Realtime Messages | Clock setting<br>Start/stop operation |

The messages transmitted/received by the EZ-30 are shown in the MIDI Implementation Chart on page 98.

### 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 1. The EZ-30 supports GM System Level 1.

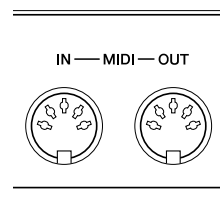


## MIDI Terminals

In order to exchange MIDI data between multiple devices, each device must be connected by a cable.

The MIDI terminals of the EZ-30 are located on the rear panel.

- **MIDI IN** ..... Receives MIDI data from another MIDI device.
- **MIDI OUT** ..... Transmits the EZ-30's keyboard information as MIDI data to another MIDI device.



## MIDI LSB receive cancel

To set the EZ-30 so that it will not receive LSB data for Bank Select, press the [STANDBY/ON] switch to turn on the power to the EZ-30 while holding down the lowest key (C1).

To cancel this setting, turn on the power to the EZ-30 again in the normal manner.

## Available MIDI Functions

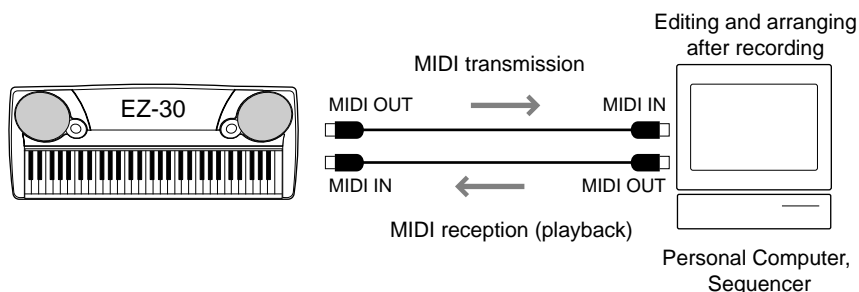
The EZ-30 has MIDI IN/OUT terminals on the rear panel.

Using the MIDI functions can expand your possibilities for creating and playing music.

- Playing on a MIDI keyboard (without an internal tone generator) can produce sound on the EZ-30.



- You can record performance data created on the EZ-30 (performance using the keyboard and auto accompaniment: 1–16 channels) to an external sequencer (such as sequence software on a computer). You can then edit the performance data on the external sequencer and play it again on the EZ-30.



→ Initial send (See page 81.)

You can send song data from a computer to the EZ-30's internal flash memory. (See page 71.)

Performance data recorded in User songs can be output via MIDI and saved in an external device as SMF data for other applications. (See page 82.)



### Note

- You will need sequence software to use a personal computer.
- You can use the notation display and Light Guide for note data that is received on Channel 1.
- The songs (1–20) and Flash songs are not output via MIDI.
- To transmit song data to flash memory, first you need to install Song Filer on the computer. (See page 71.)

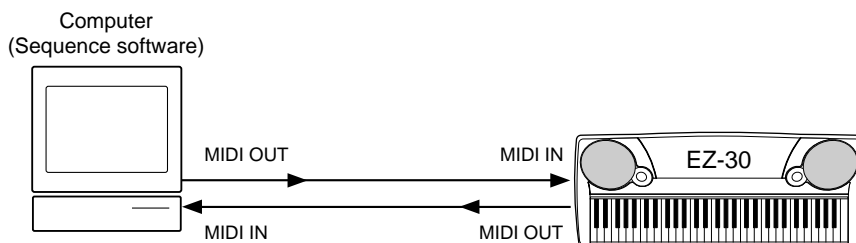
## Connecting to a Personal Computer

By connecting your EZ-30's MIDI terminals to a personal computer, you can have access to a wide variety of music software.

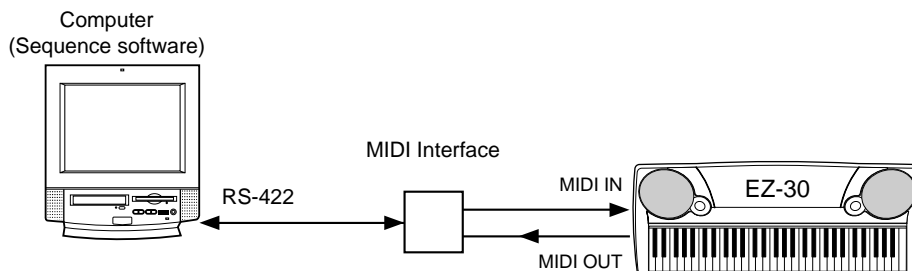
When using a MIDI interface device installed in the personal computer, connect the MIDI terminals of the personal computer and the EZ-30.

Use only special MIDI cables when connecting MIDI devices.

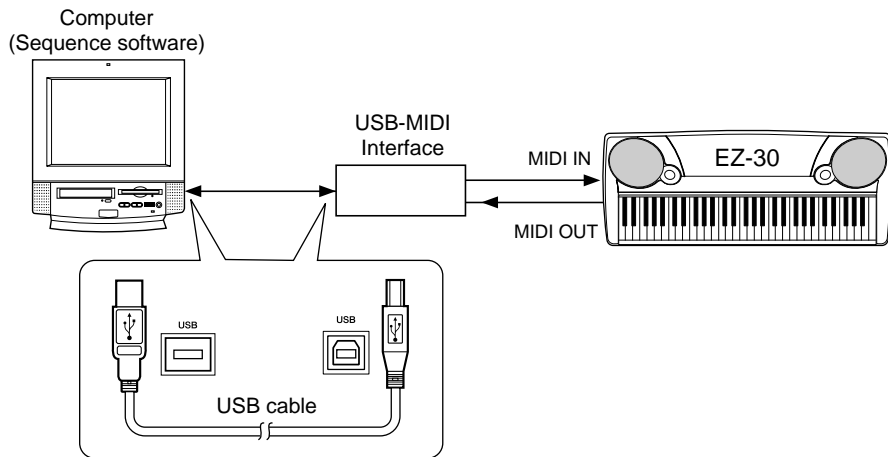
- Connect the MIDI terminals of the EZ-30 to the MIDI terminals of the personal computer.



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



- To connect a computer with a USB terminal to the EZ-30, you need an optional USB-MIDI interface.



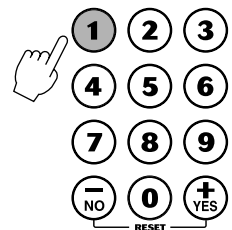
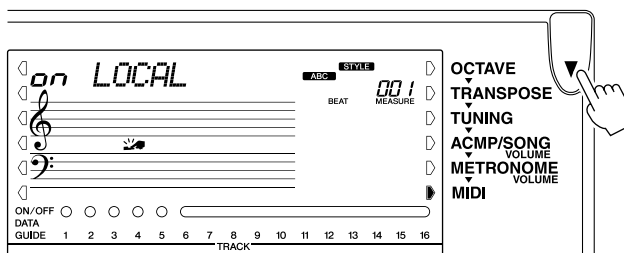
**Note** When using a Macintosh series computer, set the MIDI interface clock setting in the application software to match the setting of the MIDI interface you are using. For details, refer to the owner's manual for the software you are using.

## Local Control

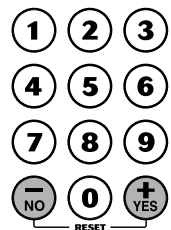
This function lets you enable or disable keyboard control over the EZ-30's voices. This would come in handy, for example, when recording notes to MIDI sequencer. If you are using the sequencer to play back the voices of the EZ-30, you would want to set this to "off" - in order to avoid getting "double" notes, both from the keyboard and from the sequencer. Normally, when playing the EZ-30 by itself, this should be set to "on."



**Press the right Overall button repeatedly to select "MIDI".**  
If "LOCAL" does not appear in the display, press the [1] button.




**Press the [+]/[-] buttons to set Local Control to on or off.**



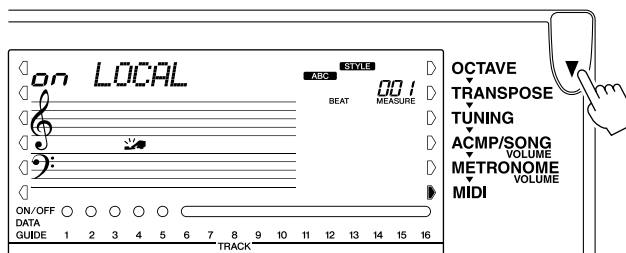
## Using Bulk Dump Send to Save Data

This operation lets you save important EZ-30 data and settings to another device, such as a sequencer, computer, or MIDI data file. This operation saves all User song data and all settings for the Registration Memory presets. Once the data is saved, you can reload it any time you need it. This allows you to save your data to floppy disk using a computer or a MIDI data file (such as the Yamaha MDF3), and have unlimited storage capacity for your valuable EZ-30 data.

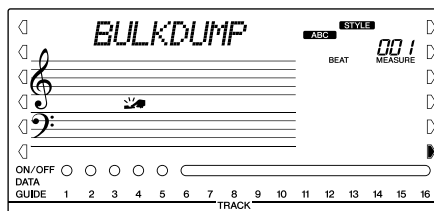
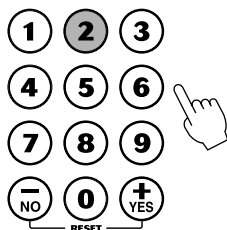
Saving Bulk Data •••••


 **Note** This function cannot be used in the Song playing, recording or when the accompaniment is playing.

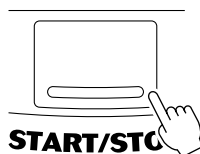
 **1** Press the right Overall button repeatedly to select “MIDI”.



 **2** Press the [2] button to display “BULKDUMP”.



 **3** Press the [START/STOP] button to start the Bulk Dump operation.




When the operation is completed, “End” appears in the display.



## Loading Bulk Data •••••

Once you've saved EZ-30 data as described above, you can easily reload the data back to the EZ-30. Send the data from the connected MIDI device. The EZ-30 automatically receives the data. When the operation is completed, the display returns to the currently selected voice.

 **This operation erases any and all of your original data in the EZ-30. Make sure to save your original settings and data using the Bulk Dump operation described above.**



- Make sure that the EZ-30 is not in the middle of an operation, such as song recording or playback, Accompaniment playback, saving a Registration Memory preset, sending Bulk Dump data, etc.
- When the EZ-30 is receiving bulk data, none of the panel controls can be used.
- If, for some reason, some problem occurred in the data reception, a "RcvError" message is shown in the display. Check all connections and settings and try the operation again.

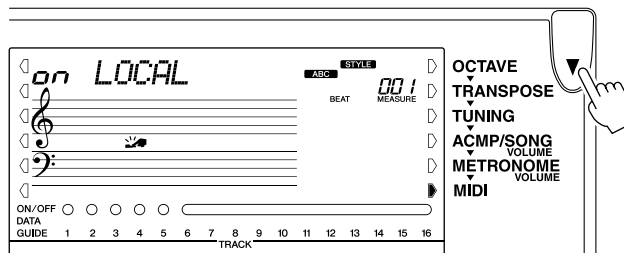
## Transmitting the EZ-30 Panel Settings (Initial Send)

The EZ-30's panel settings can be transmitted to an external device.

Recording data to an external sequencer enables you to play back the data utilizing the panel settings used for the recording.



**Press the right Overall button repeatedly to select "MIDI."**



**Press the [3] button to display "INITSEND".**



**Press the [START/STOP] button to execute Initial Send.**

When the transmission is complete, "End" appears in the display.

### ***Transmitting SMF Format Data***

Performance data recorded in the EZ-30's User songs can be transmitted via MIDI and stored in the SMF format.

- 1** Select a User song to transmit.
- 2** Follow the steps described above in the "Transmitting the EZ-30 Panel Settings (Initial Send)" section.
- 3** Press the [SONG] button, then the [START/STOP] button to transmit the song data. You can store the data (received on the computer via MIDI) in the SMF format file so that it can be used for another application.

# Troubleshooting

| Problem                                                                                                                                                                                                                                                            | Possible Cause and Solution                                                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| When the EZ-30 is turned on or off, a popping sound is temporarily produced.                                                                                                                                                                                       | This is normal and indicates that the EZ-30 is receiving electrical power.                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>• The volume level is low.</li> <li>• Tonal quality has degraded.</li> <li>• Recorded songs are not played correctly.</li> <li>• The display indication is turned off suddenly and the panel settings are reset.</li> </ul> | The battery voltage is low. Replace all six batteries with new ones, or use the AC adaptor.                                                                                                                                              |
| Noise is produced from the EZ-30.                                                                                                                                                                                                                                  | When using a mobile phone, noise is produced. Using a mobile phone in close proximity to the EZ-30 may produce interference. To prevent this, turn off the mobile phone or use it further away from the EZ-30.                           |
| There is no sound even when the keyboard is played or when a song 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 using the Dictionary function (page 58), the keys in the right hand section are used only for entering the chord root and type.                                                                                                     |
| The effects (Reverb/DSP/Harmony) are not applied.                                                                                                                                                                                                                  | Each effect (Reverb/DSP/Harmony) is turned off. Select a type for each effect. (See page 48, 49, 50.)                                                                                                                                    |
| The auto accompaniment doesn't turn on, even when pressing the [ACMP ON/OFF] button.                                                                                                                                                                               | When playing back one of the Pianist styles (#97–#106), the rhythm cannot be heard. The Pianist styles have no drums or bass - only piano accompaniment.                                                                                 |
| Not all of the voices seem to sound, or the sound seems to be cut off.                                                                                                                                                                                             | The EZ-30 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. |
| Auto accompaniment is not played correctly.                                                                                                                                                                                                                        | The accompaniment volume setting is low. Refer to page 61 to raise the volume level.                                                                                                                                                     |
|                                                                                                                                                                                                                                                                    | The auto accompaniment split point is set incorrectly for the played chords. See page 44 to set a correct split point.                                                                                                                   |
| The polarity of the footswitch is reversed.                                                                                                                                                                                                                        | You turned on the power to the EZ-30 while pressing the footswitch. Turn the power off, then turn it on again without pressing the footswitch.                                                                                           |

# Data Backup & Initialization

## Data Backup

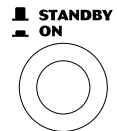
Except for the data listed below, all EZ-30 panel settings are reset to their initial settings whenever the power is turned on. The data listed below are backed up - i.e. retained in memory - as long as an AC adaptor is connected or a set of batteries is installed.

- User Song Data
- Song Volume
- Registration Memory Data
- Registration Memory Bank Number
- Metronome Volume
- Touch On/Off
- Tuning
- Grade On/Off
- Talking On/Off
- Guide Voice On/Off

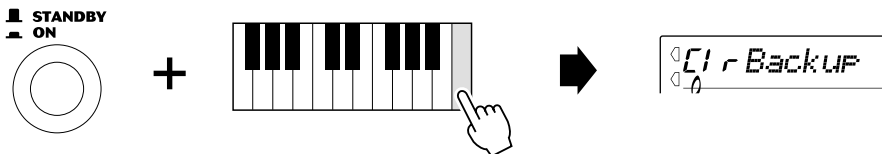
## Data Initialization


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

- 1 Press the [STANDBY/ON] switch to turn off the power to the EZ-30.



- 2 While holding down the highest white key, press the [STANDBY/ON] switch to turn on the power to the EZ-30 to initialize the data. When initialization is complete, the display indicates "CLr Backup."



 **All Registration Memory and User song data, plus the other settings listed above, will be erased and/or changed when the data initialization procedure is carried out.**



**Note**

- Carrying out the data initialization procedure will usually restore normal operation if the EZ-30 freezes or begins to act erratically for any reason.
- Refer to page 74 for information on initializing flash memory.

# Voice List

## ■ Maximum Polyphony

The EZ-30 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.



- The Voice List includes MIDI program change numbers for each voice. Use these program change numbers when playing the EZ-30 via MIDI from an external device.
- Some voices may sound continuously or have a long decay after the notes have been released while the sustain pedal (footswitch) is held.

| Voice#           | Bank Select# |      | MIDI Program Change# | Voice Name             |
|------------------|--------------|------|----------------------|------------------------|
|                  | MSB#         | LSB# |                      |                        |
| <b>PIANO</b>     |              |      |                      |                        |
| 001              | 000          | 112  | 000                  | Grand Piano            |
| 002              | 000          | 112  | 001                  | Bright Piano           |
| 003              | 000          | 112  | 000                  | Piano and Slow Strings |
| 004              | 000          | 112  | 002                  | MIDI Grand Piano       |
| 005              | 000          | 112  | 003                  | Honky-tonk Piano       |
| 006              | 000          | 112  | 006                  | Harpichord             |
| <b>E.PIANO</b>   |              |      |                      |                        |
| 007              | 000          | 112  | 005                  | DX Modern Elec. Piano  |
| 008              | 000          | 112  | 004                  | Funky Electric Piano   |
| 009              | 000          | 113  | 005                  | Hyper Tines            |
| 010              | 000          | 114  | 005                  | Venus Electric Piano   |
| 011              | 000          | 112  | 007                  | Clavi                  |
| <b>ORGAN</b>     |              |      |                      |                        |
| 012              | 000          | 112  | 016                  | Jazz Organ 1           |
| 013              | 000          | 113  | 016                  | Jazz Organ 2           |
| 014              | 000          | 112  | 017                  | Click Organ            |
| 015              | 000          | 116  | 016                  | Bright Organ           |
| 016              | 000          | 112  | 018                  | Rock Organ             |
| 017              | 000          | 114  | 018                  | Purple Organ           |
| 018              | 000          | 118  | 016                  | 16'+2' Organ           |
| 019              | 000          | 119  | 016                  | 16'+4' Organ           |
| 020              | 000          | 114  | 016                  | Theater Organ          |
| 021              | 000          | 112  | 019                  | Church Organ           |
| 022              | 000          | 113  | 019                  | Chapel Organ           |
| 023              | 000          | 112  | 020                  | Reed Organ             |
| <b>ACCORDION</b> |              |      |                      |                        |
| 024              | 000          | 113  | 021                  | Traditional Accordion  |
| 025              | 000          | 112  | 021                  | Musette Accordion      |
| 026              | 000          | 113  | 023                  | Bandoneon              |
| 027              | 000          | 112  | 022                  | Harmonica              |
| <b>GUITAR</b>    |              |      |                      |                        |
| 028              | 000          | 112  | 024                  | Classical Guitar       |
| 029              | 000          | 112  | 025                  | Folk Guitar            |
| 030              | 000          | 113  | 025                  | 12Strings Guitar       |
| 031              | 000          | 112  | 026                  | Jazz Guitar            |
| 032              | 000          | 113  | 026                  | Octave Guitar          |
| 033              | 000          | 112  | 027                  | Clean Guitar           |
| 034              | 000          | 112  | 028                  | Muted Guitar           |
| 035              | 000          | 112  | 029                  | Overdriven Guitar      |
| 036              | 000          | 112  | 030                  | Distortion Guitar      |
| <b>BASS</b>      |              |      |                      |                        |
| 037              | 000          | 112  | 032                  | Acoustic Bass          |
| 038              | 000          | 112  | 033                  | Finger Bass            |
| 039              | 000          | 112  | 034                  | Pick Bass              |
| 040              | 000          | 112  | 035                  | Fretless Bass          |
| 041              | 000          | 112  | 036                  | Slap Bass              |
| 042              | 000          | 112  | 038                  | Synth Bass             |

| Voice#           | Bank Select# |      | MIDI Program Change# | Voice Name        |
|------------------|--------------|------|----------------------|-------------------|
|                  | MSB#         | LSB# |                      |                   |
| 043              | 000          | 113  | 038                  | Hi-Q Bass         |
| 044              | 000          | 113  | 039                  | Dance Bass        |
| <b>STRINGS</b>   |              |      |                      |                   |
| 045              | 000          | 112  | 048                  | String Ensemble   |
| 046              | 000          | 112  | 049                  | Chamber Strings   |
| 047              | 000          | 112  | 050                  | Synth Strings     |
| 048              | 000          | 113  | 049                  | Slow Strings      |
| 049              | 000          | 112  | 044                  | Tremolo Strings   |
| 050              | 000          | 112  | 045                  | Pizzicato Strings |
| 051              | 000          | 112  | 055                  | Orchestra Hit     |
| 052              | 000          | 112  | 040                  | Violin            |
| 053              | 000          | 112  | 042                  | Cello             |
| 054              | 000          | 112  | 043                  | Contrabass        |
| 055              | 000          | 112  | 105                  | Banjo             |
| 056              | 000          | 112  | 046                  | Harp              |
| <b>CHOIR</b>     |              |      |                      |                   |
| 057              | 000          | 112  | 052                  | Choir             |
| 058              | 000          | 113  | 052                  | Vocal Ensemble    |
| 059              | 000          | 112  | 053                  | Vox Humana        |
| 060              | 000          | 112  | 054                  | Air Choir         |
| <b>SAXOPHONE</b> |              |      |                      |                   |
| 061              | 000          | 112  | 064                  | Soprano Sax       |
| 062              | 000          | 112  | 065                  | Alto Sax          |
| 063              | 000          | 112  | 066                  | Tenor Sax         |
| 064              | 000          | 114  | 066                  | Breathy Tenor     |
| 065              | 000          | 112  | 067                  | Baritone Sax      |
| 066              | 000          | 112  | 068                  | Oboe              |
| 067              | 000          | 112  | 069                  | English Horn      |
| 068              | 000          | 112  | 070                  | Bassoon           |
| 069              | 000          | 112  | 071                  | Clarinet          |
| <b>TRUMPET</b>   |              |      |                      |                   |
| 070              | 000          | 112  | 056                  | Trumpet           |
| 071              | 000          | 112  | 059                  | Muted Trumpet     |
| 072              | 000          | 112  | 057                  | Trombone          |
| 073              | 000          | 113  | 057                  | Trombone Section  |
| 074              | 000          | 112  | 060                  | French Horn       |
| 075              | 000          | 112  | 058                  | Tuba              |
| <b>BRASS</b>     |              |      |                      |                   |
| 076              | 000          | 113  | 061                  | Big Brass         |
| 077              | 000          | 113  | 061                  | Brass Sax         |
| 078              | 000          | 112  | 061                  | Brass Section     |
| 079              | 000          | 119  | 061                  | Mellow Horns      |
| 080              | 000          | 112  | 062                  | Synth Brass       |
| 081              | 000          | 113  | 062                  | Jump Brass        |
| <b>FLUTE</b>     |              |      |                      |                   |
| 082              | 000          | 112  | 073                  | Flute             |
| 083              | 000          | 112  | 072                  | Piccolo           |
| 084              | 000          | 112  | 075                  | Pan Flute         |

| Voice#            | Bank Select# |      | MIDI Program Change# | Voice Name                  |
|-------------------|--------------|------|----------------------|-----------------------------|
|                   | MSB#         | LSB# |                      |                             |
| 085               | 000          | 112  | 074                  | Recorder                    |
| 086               | 000          | 112  | 079                  | Ocarina                     |
| <b>SYNTH LEAD</b> |              |      |                      |                             |
| 087               | 000          | 112  | 080                  | Square Lead                 |
| 088               | 000          | 112  | 081                  | Sawtooth Lead               |
| 089               | 000          | 115  | 081                  | Analogon                    |
| 090               | 000          | 119  | 081                  | Fargo                       |
| 091               | 000          | 114  | 062                  | Techno Brass                |
| 092               | 000          | 113  | 002                  | SynPiano                    |
| 093               | 000          | 112  | 098                  | Star Dust                   |
| <b>SYNTH PAD</b>  |              |      |                      |                             |
| 094               | 000          | 112  | 088                  | Fantasia                    |
| 095               | 000          | 113  | 100                  | Bell Pad                    |
| 096               | 000          | 112  | 091                  | Xenon Pad                   |
| 097               | 000          | 112  | 094                  | Equinox                     |
| 098               | 000          | 113  | 089                  | Dark Moon                   |
| <b>PERCUSSION</b> |              |      |                      |                             |
| 099               | 000          | 112  | 011                  | Vibraphone                  |
| 100               | 000          | 112  | 012                  | Marimba                     |
| 101               | 000          | 112  | 013                  | Xylophone                   |
| 102               | 000          | 112  | 114                  | Steel Drums                 |
| 103               | 000          | 112  | 008                  | Celesta                     |
| 104               | 000          | 112  | 014                  | Tubular Bells               |
| 105               | 000          | 112  | 047                  | Timpani                     |
| 106               | 000          | 112  | 010                  | Music Box                   |
| <b>SPLIT</b>      |              |      |                      |                             |
| 107               | --           | --   | --                   | Acoustic Bass/Piano         |
| 108               | --           | --   | --                   | FingerBass/Bright Piano     |
| 109               | --           | --   | --                   | Fretless Bass/ DX Modern EP |
| 110               | --           | --   | --                   | FretlessBass/Vibraphon      |
| 111               | --           | --   | --                   | FretlessBass/Brass          |
| 112               | --           | --   | --                   | Analogon/SawLead            |
| 113               | --           | --   | --                   | SlapBass/Clavinet           |
| 114               | --           | --   | --                   | Guitar/Flute                |
| 115               | --           | --   | --                   | Strings/Piano               |
| 116               | --           | --   | --                   | VoxHumana/Choir             |
| <b>DRUM KITS</b>  |              |      |                      |                             |
| 117               | 127          | 000  | 000                  | Standard Kit 1              |
| 118               | 127          | 000  | 001                  | Standard Kit 2              |
| 119               | 127          | 000  | 008                  | Room Kit                    |
| 120               | 127          | 000  | 016                  | Rock Kit                    |
| 121               | 127          | 000  | 024                  | Electronic Kit              |
| 122               | 127          | 000  | 025                  | Analog Kit                  |
| 123               | 127          | 000  | 027                  | Dance Kit                   |
| 124               | 127          | 000  | 032                  | Jazz Kit                    |
| 125               | 127          | 000  | 040                  | Brush Kit                   |
| 126               | 127          | 000  | 048                  | Symphony Kit                |
| 127               | 126          | 000  | 000                  | SFX Kit 1                   |
| 128               | 126          | 000  | 001                  | SFX Kit 2                   |

## Expanded Voices

| Voice#       | Bank Select# |      | MIDI Program Change# | Voice Name               |
|--------------|--------------|------|----------------------|--------------------------|
|              | MSB#         | LSB# |                      |                          |
| <b>PIANO</b> |              |      |                      |                          |
| 129          | 000          | 000  | 000                  | Grand Piano              |
| 130          | 000          | 001  | 000                  | Grand Piano KSP          |
| 131          | 000          | 018  | 000                  | Mellow Grand Piano       |
| 132          | 000          | 040  | 000                  | Piano Strings            |
| 133          | 000          | 041  | 000                  | Dream                    |
| 134          | 000          | 000  | 001                  | Bright Piano             |
| 135          | 000          | 001  | 001                  | Bright Piano KSP         |
| 136          | 000          | 000  | 002                  | Electric Grand Piano     |
| 137          | 000          | 001  | 002                  | Electric Grand Piano KSP |
| 138          | 000          | 032  | 002                  | Detuned CP80             |
| 139          | 000          | 040  | 002                  | Layered CP 1             |
| 140          | 000          | 041  | 002                  | Layered CP 2             |
| 141          | 000          | 000  | 003                  | Honky-tonk Piano         |
| 142          | 000          | 001  | 003                  | Honky-tonk Piano KSP     |
| 143          | 000          | 000  | 004                  | Electric Piano 1         |
| 144          | 000          | 001  | 004                  | Electric Piano 1 KSP     |

| Voice#                 | Bank Select# |      | MIDI Program Change# | Voice Name                          |
|------------------------|--------------|------|----------------------|-------------------------------------|
|                        | MSB#         | LSB# |                      |                                     |
| 145                    | 000          | 018  | 004                  | Mellow Electric Piano 1             |
| 146                    | 000          | 032  | 004                  | Chorus Electric Piano 1             |
| 147                    | 000          | 040  | 004                  | Hard Electric Piano                 |
| 148                    | 000          | 045  | 004                  | Velocity Crossfade Electric Piano 1 |
| 149                    | 000          | 064  | 004                  | 60's Electric Piano 1               |
| 150                    | 000          | 000  | 005                  | Electric Piano 2                    |
| 151                    | 000          | 001  | 005                  | Electric Piano 2 KSP                |
| 152                    | 000          | 032  | 005                  | Chorus Electric Piano 2             |
| 153                    | 000          | 033  | 005                  | DX Electric Piano Hard              |
| 154                    | 000          | 034  | 005                  | DX Legend                           |
| 155                    | 000          | 040  | 005                  | DX Phase Electric Piano             |
| 156                    | 000          | 041  | 005                  | DX + Analog Electric Piano          |
| 157                    | 000          | 042  | 005                  | DX Koto Electric Piano              |
| 158                    | 000          | 045  | 005                  | Velocity Crossfade Electric Piano 2 |
| 159                    | 000          | 000  | 006                  | Harpsichord                         |
| 160                    | 000          | 001  | 006                  | Harpsichord KSP                     |
| 161                    | 000          | 025  | 006                  | Harpsichord 2                       |
| 162                    | 000          | 035  | 006                  | Harpsichord 3                       |
| 163                    | 000          | 000  | 007                  | Clavi                               |
| 164                    | 000          | 001  | 007                  | Clavi KSP                           |
| 165                    | 000          | 027  | 007                  | Clavi Wah                           |
| 166                    | 000          | 064  | 007                  | Pulse Clavi                         |
| 167                    | 000          | 065  | 007                  | Pierce Clavi                        |
| <b>VIBRAPHONE etc.</b> |              |      |                      |                                     |
| 168                    | 000          | 000  | 008                  | Celesta                             |
| 169                    | 000          | 000  | 009                  | Glockenspiel                        |
| 170                    | 000          | 000  | 010                  | Music Box                           |
| 171                    | 000          | 064  | 010                  | Orgel                               |
| 172                    | 000          | 000  | 011                  | Vibraphone                          |
| 173                    | 000          | 001  | 011                  | Vibraphone KSP                      |
| 174                    | 000          | 045  | 011                  | Hard Vibraphone                     |
| 175                    | 000          | 000  | 012                  | Marimba                             |
| 176                    | 000          | 001  | 012                  | Marimba KSP                         |
| 177                    | 000          | 064  | 012                  | Sine Marimba                        |
| 178                    | 000          | 097  | 012                  | Balimba                             |
| 179                    | 000          | 098  | 012                  | Log Drums                           |
| 180                    | 000          | 000  | 013                  | Xylophone                           |
| 181                    | 000          | 000  | 014                  | Tubular Bells                       |
| 182                    | 000          | 096  | 014                  | Church Bells                        |
| 183                    | 000          | 097  | 014                  | Carillon                            |
| 184                    | 000          | 000  | 015                  | Dulcimer                            |
| 185                    | 000          | 035  | 015                  | Dulcimer 2                          |
| 186                    | 000          | 096  | 015                  | Cimbalom                            |
| 187                    | 000          | 097  | 015                  | Santur                              |
| <b>ORGAN</b>           |              |      |                      |                                     |
| 188                    | 000          | 000  | 016                  | Drawbar Organ                       |
| 189                    | 000          | 032  | 016                  | Detuned Drawbar Organ               |
| 190                    | 000          | 033  | 016                  | 60's Drawbar Organ 1                |
| 191                    | 000          | 034  | 016                  | 60's Drawbar Organ 2                |
| 192                    | 000          | 035  | 016                  | 70's Drawbar Organ 1                |
| 193                    | 000          | 036  | 016                  | Drawbar Organ 2                     |
| 194                    | 000          | 037  | 016                  | 60's Drawbar Organ 3                |
| 195                    | 000          | 038  | 016                  | Even Bar                            |
| 196                    | 000          | 040  | 016                  | "16+2"2/3"                          |
| 197                    | 000          | 064  | 016                  | Organ Bass                          |
| 198                    | 000          | 065  | 016                  | 70's Drawbar Organ 2                |
| 199                    | 000          | 066  | 016                  | Cheezy Organ                        |
| 200                    | 000          | 067  | 016                  | Drawbar Organ 3                     |
| 201                    | 000          | 000  | 017                  | Percussive Organ                    |
| 202                    | 000          | 024  | 017                  | 70's Percussive Organ               |
| 203                    | 000          | 032  | 017                  | Detuned Percussive Organ            |
| 204                    | 000          | 033  | 017                  | Light Organ                         |
| 205                    | 000          | 037  | 017                  | Percussive Organ 2                  |
| 206                    | 000          | 000  | 018                  | Rock Organ                          |
| 207                    | 000          | 064  | 018                  | Rotary Organ                        |
| 208                    | 000          | 065  | 018                  | Slow Rotary                         |
| 209                    | 000          | 066  | 018                  | Fast Rotary                         |
| 210                    | 000          | 000  | 019                  | Church Organ                        |
| 211                    | 000          | 032  | 019                  | Church Organ 3                      |
| 212                    | 000          | 035  | 019                  | Church Organ 2                      |
| 213                    | 000          | 040  | 019                  | Notre Dame                          |

| Voice#        | Bank Select# |      | MIDI Program Change# | Voice Name                       |
|---------------|--------------|------|----------------------|----------------------------------|
|               | MSB#         | LSB# |                      |                                  |
| 214           | 000          | 064  | 019                  | Organ Flute                      |
| 215           | 000          | 065  | 019                  | Tremolo Organ Flute              |
| 216           | 000          | 000  | 020                  | Reed Organ                       |
| 217           | 000          | 040  | 020                  | Puff Organ                       |
| 218           | 000          | 000  | 021                  | Accordion                        |
| 219           | 000          | 032  | 021                  | Accordion It                     |
| 220           | 000          | 000  | 022                  | Hamonica                         |
| 221           | 000          | 032  | 022                  | Harmonica 2                      |
| 222           | 000          | 000  | 023                  | Tango Accordion                  |
| 223           | 000          | 064  | 023                  | Tango Accordion 2                |
| <b>GUITAR</b> |              |      |                      |                                  |
| 224           | 000          | 000  | 024                  | Nylon Guitar                     |
| 225           | 000          | 016  | 024                  | Nylon Guitar 2                   |
| 226           | 000          | 025  | 024                  | Nylon Guitar 3                   |
| 227           | 000          | 043  | 024                  | Velocity Guitar Harmonics        |
| 228           | 000          | 096  | 024                  | Ukulele                          |
| 229           | 000          | 000  | 025                  | Steel Guitar                     |
| 230           | 000          | 016  | 025                  | Steel Guitar 2                   |
| 231           | 000          | 035  | 025                  | 12-string Guitar                 |
| 232           | 000          | 040  | 025                  | Nylon & Steel Guitar             |
| 233           | 000          | 041  | 025                  | Steel Guitar with Body Sound     |
| 234           | 000          | 096  | 025                  | Mandolin                         |
| 235           | 000          | 000  | 026                  | Jazz Guitar                      |
| 236           | 000          | 018  | 026                  | Mellow Guitar                    |
| 237           | 000          | 032  | 026                  | Jazz Amp                         |
| 238           | 000          | 000  | 027                  | Clean Guitar                     |
| 239           | 000          | 032  | 027                  | Chorus Guitar                    |
| 240           | 000          | 000  | 028                  | Muted Guitar                     |
| 241           | 000          | 040  | 028                  | Funk Guitar 1                    |
| 242           | 000          | 041  | 028                  | Muted Steel Guitar               |
| 243           | 000          | 043  | 028                  | Funk Guitar 2                    |
| 244           | 000          | 045  | 028                  | Jazz Man                         |
| 245           | 000          | 000  | 029                  | Overdriven Guitar                |
| 246           | 000          | 043  | 029                  | Guitar Pinch                     |
| 247           | 000          | 000  | 030                  | Distortion Guitar                |
| 248           | 000          | 040  | 030                  | Feedback Guitar                  |
| 249           | 000          | 041  | 030                  | Feedback Guitar 2                |
| 250           | 000          | 000  | 031                  | Guitar Harmonics                 |
| 251           | 000          | 065  | 031                  | Guitar Feedback                  |
| 252           | 000          | 066  | 031                  | Guitar Harmonics 2               |
| <b>BASS</b>   |              |      |                      |                                  |
| 253           | 000          | 000  | 032                  | Acoustic Bass                    |
| 254           | 000          | 040  | 032                  | Jazz Rhythm                      |
| 255           | 000          | 045  | 032                  | Velocity Crossfade Upright Bass  |
| 256           | 000          | 000  | 033                  | Finger Bass                      |
| 257           | 000          | 018  | 033                  | Finger Dark                      |
| 258           | 000          | 027  | 033                  | Flange Bass                      |
| 259           | 000          | 040  | 033                  | Bass & Distorted Electric Guitar |
| 260           | 000          | 043  | 033                  | Finger Slap Bass                 |
| 261           | 000          | 045  | 033                  | Finger Bass 2                    |
| 262           | 000          | 065  | 033                  | Modulated Bass                   |
| 263           | 000          | 000  | 034                  | Pick Bass                        |
| 264           | 000          | 028  | 034                  | Muted Pick Bass                  |
| 265           | 000          | 000  | 035                  | Fretless Bass                    |
| 266           | 000          | 032  | 035                  | Fretless Bass 2                  |
| 267           | 000          | 033  | 035                  | Fretless Bass 3                  |
| 268           | 000          | 034  | 035                  | Fretless Bass 4                  |
| 269           | 000          | 096  | 035                  | Synth Fretless                   |
| 270           | 000          | 097  | 035                  | Smooth Fretless                  |
| 271           | 000          | 000  | 036                  | Slap Bass 1                      |
| 272           | 000          | 027  | 036                  | Resonant Slap                    |
| 273           | 000          | 032  | 036                  | Punch Thumb Bass                 |
| 274           | 000          | 000  | 037                  | Slap Bass 2                      |
| 275           | 000          | 043  | 037                  | Velocity Switch Slap             |
| 276           | 000          | 000  | 038                  | Synth Bass 1                     |
| 277           | 000          | 018  | 038                  | Synth Bass 1 Dark                |
| 278           | 000          | 020  | 038                  | Fast Resonant Bass               |
| 279           | 000          | 024  | 038                  | Acid Bass                        |
| 280           | 000          | 035  | 038                  | Clavi Bass                       |
| 281           | 000          | 040  | 038                  | Techno Synth Bass                |
| 282           | 000          | 064  | 038                  | Orbiter                          |

| Voice#              | Bank Select# |      | MIDI Program Change# | Voice Name           |
|---------------------|--------------|------|----------------------|----------------------|
|                     | MSB#         | LSB# |                      |                      |
| 283                 | 000          | 065  | 038                  | Square Bass          |
| 284                 | 000          | 066  | 038                  | Rubber Bass          |
| 285                 | 000          | 096  | 038                  | Hammer               |
| 286                 | 000          | 000  | 039                  | Synth Bass 2         |
| 287                 | 000          | 006  | 039                  | Mellow Synth Bass    |
| 288                 | 000          | 012  | 039                  | Sequenced Bass       |
| 289                 | 000          | 018  | 039                  | Click Synth Bass     |
| 290                 | 000          | 019  | 039                  | Synth Bass 2 Dark    |
| 291                 | 000          | 032  | 039                  | Smooth Synth Bass    |
| 292                 | 000          | 040  | 039                  | Modular Synth Bass   |
| 293                 | 000          | 041  | 039                  | DX Bass              |
| 294                 | 000          | 064  | 039                  | X Wire Bass          |
| <b>VIOLIN etc.</b>  |              |      |                      |                      |
| 295                 | 000          | 000  | 040                  | Violin               |
| 296                 | 000          | 008  | 040                  | Slow Violin          |
| 297                 | 000          | 000  | 041                  | Viola                |
| 298                 | 000          | 000  | 042                  | Cello                |
| 299                 | 000          | 000  | 043                  | Contrabass           |
| 300                 | 000          | 000  | 044                  | Tremolo Strings      |
| 301                 | 000          | 008  | 044                  | Slow Tremolo Strings |
| 302                 | 000          | 040  | 044                  | Suspense Strings     |
| 303                 | 000          | 000  | 045                  | Pizzicato Strings    |
| 304                 | 000          | 000  | 046                  | Orchestral Harp      |
| 305                 | 000          | 040  | 046                  | Yang Chin            |
| 306                 | 000          | 000  | 047                  | Timpani              |
| <b>ENSEMBLE</b>     |              |      |                      |                      |
| 307                 | 000          | 000  | 048                  | Strings 1            |
| 308                 | 000          | 003  | 048                  | Stereo Strings       |
| 309                 | 000          | 008  | 048                  | Slow Strings         |
| 310                 | 000          | 024  | 048                  | Arco Strings         |
| 311                 | 000          | 035  | 048                  | 60's Strings         |
| 312                 | 000          | 040  | 048                  | Orchestra            |
| 313                 | 000          | 041  | 048                  | Orchestra 2          |
| 314                 | 000          | 042  | 048                  | Tremolo Orchestra    |
| 315                 | 000          | 045  | 048                  | Velocity Strings     |
| 316                 | 000          | 000  | 049                  | Strings 2            |
| 317                 | 000          | 003  | 049                  | Stereo Slow Strings  |
| 318                 | 000          | 008  | 049                  | Legato Strings       |
| 319                 | 000          | 040  | 049                  | Warm Strings         |
| 320                 | 000          | 041  | 049                  | Kingdom              |
| 321                 | 000          | 064  | 049                  | 70's Strings         |
| 322                 | 000          | 065  | 049                  | String Ensemble 3    |
| 323                 | 000          | 000  | 050                  | Synth Strings 1      |
| 324                 | 000          | 027  | 050                  | Resonant Strings     |
| 325                 | 000          | 064  | 050                  | Synth Strings 4      |
| 326                 | 000          | 065  | 050                  | Synth Strings 5      |
| 327                 | 000          | 000  | 051                  | Synth Strings 2      |
| 328                 | 000          | 000  | 052                  | Choir Aahs           |
| 329                 | 000          | 003  | 052                  | Stereo Choir         |
| 330                 | 000          | 016  | 052                  | Choir Aahs 2         |
| 331                 | 000          | 032  | 052                  | Mellow Choir         |
| 332                 | 000          | 040  | 052                  | Choir Strings        |
| 333                 | 000          | 000  | 053                  | Voice Oohs           |
| 334                 | 000          | 000  | 054                  | Synth Voice          |
| 335                 | 000          | 040  | 054                  | Synth Voice 2        |
| 336                 | 000          | 041  | 054                  | Choral               |
| 337                 | 000          | 064  | 054                  | Analog Voice         |
| 338                 | 000          | 000  | 055                  | Orchestra Hit        |
| 339                 | 000          | 035  | 055                  | Orchestra Hit 2      |
| 340                 | 000          | 064  | 055                  | Impact               |
| <b>TRUMPET etc.</b> |              |      |                      |                      |
| 341                 | 000          | 000  | 056                  | Trumpet              |
| 342                 | 000          | 016  | 056                  | Trumpet 2            |
| 343                 | 000          | 017  | 056                  | Bright Trumpet       |
| 344                 | 000          | 032  | 056                  | Warm Trumpet         |
| 345                 | 000          | 000  | 057                  | Trombone             |
| 346                 | 000          | 018  | 057                  | Trombone 2           |
| 347                 | 000          | 000  | 058                  | Tuba                 |
| 348                 | 000          | 016  | 058                  | Tuba 2               |
| 349                 | 000          | 000  | 059                  | Muted Trumpet        |
| 350                 | 000          | 000  | 060                  | French Horn          |
| 351                 | 000          | 006  | 060                  | French Horn Solo     |
| 352                 | 000          | 032  | 060                  | French Horn 2        |

| Voice#                | Bank Select# |      | MIDI Program Change# | Voice Name                 |
|-----------------------|--------------|------|----------------------|----------------------------|
|                       | MSB#         | LSB# |                      |                            |
| 353                   | 000          | 037  | 060                  | Horn Orchestra             |
| 354                   | 000          | 000  | 061                  | Brass Section              |
| 355                   | 000          | 035  | 061                  | Trumpet & Trombone Section |
| 356                   | 000          | 040  | 061                  | Brass Section 2            |
| 357                   | 000          | 041  | 061                  | High Brass                 |
| 358                   | 000          | 042  | 061                  | Mellow Brass               |
| 359                   | 000          | 000  | 062                  | Synth Brass 1              |
| 360                   | 000          | 012  | 062                  | Quack Brass                |
| 361                   | 000          | 020  | 062                  | Resonant Synth Brass       |
| 362                   | 000          | 024  | 062                  | Poly Brass                 |
| 363                   | 000          | 027  | 062                  | Synth Brass 3              |
| 364                   | 000          | 032  | 062                  | Jump Brass                 |
| 365                   | 000          | 045  | 062                  | Analog Velocity Brass 1    |
| 366                   | 000          | 064  | 062                  | Analog Brass 1             |
| 367                   | 000          | 000  | 063                  | Synth Brass 2              |
| 368                   | 000          | 018  | 063                  | Soft Brass                 |
| 369                   | 000          | 040  | 063                  | Synth Brass 4              |
| 370                   | 000          | 041  | 063                  | Choir Brass                |
| 371                   | 000          | 045  | 063                  | Analog Velocity Brass 2    |
| 372                   | 000          | 064  | 063                  | Analog Brass 2             |
| <b>SAXOPHONE etc.</b> |              |      |                      |                            |
| 373                   | 000          | 000  | 064                  | Soprano Sax                |
| 374                   | 000          | 000  | 065                  | Alto Sax                   |
| 375                   | 000          | 040  | 065                  | Sax Section                |
| 376                   | 000          | 043  | 065                  | Hyper Alto Sax             |
| 377                   | 000          | 000  | 066                  | Tenor Sax                  |
| 378                   | 000          | 040  | 066                  | Breathy Tenor Sax          |
| 379                   | 000          | 041  | 066                  | Soft Tenor Sax             |
| 380                   | 000          | 064  | 066                  | Tenor Sax 2                |
| 381                   | 000          | 000  | 067                  | Baritone Sax               |
| 382                   | 000          | 000  | 068                  | Oboe                       |
| 383                   | 000          | 000  | 069                  | English Horn               |
| 384                   | 000          | 000  | 070                  | Bassoon                    |
| 385                   | 000          | 000  | 071                  | Clarinet                   |
| <b>FLUTE etc.</b>     |              |      |                      |                            |
| 386                   | 000          | 000  | 072                  | Piccolo                    |
| 387                   | 000          | 000  | 073                  | Flute                      |
| 388                   | 000          | 000  | 074                  | Recorder                   |
| 389                   | 000          | 000  | 075                  | Pan Flute                  |
| 390                   | 000          | 000  | 076                  | Blown Bottle               |
| 391                   | 000          | 000  | 077                  | Shakuhachi                 |
| 392                   | 000          | 000  | 078                  | Whistle                    |
| 393                   | 000          | 000  | 079                  | Ocarina                    |
| <b>SYNTH LEAD</b>     |              |      |                      |                            |
| 394                   | 000          | 000  | 080                  | Square Lead                |
| 395                   | 000          | 006  | 080                  | Square Lead 2              |
| 396                   | 000          | 008  | 080                  | LM Square                  |
| 397                   | 000          | 018  | 080                  | Hollow                     |
| 398                   | 000          | 019  | 080                  | Shroud                     |
| 399                   | 000          | 064  | 080                  | Mellow                     |
| 400                   | 000          | 065  | 080                  | Solo Sine                  |
| 401                   | 000          | 066  | 080                  | Sine Lead                  |
| 402                   | 000          | 000  | 081                  | Sawtooth Lead              |
| 403                   | 000          | 006  | 081                  | Sawtooth Lead 2            |
| 404                   | 000          | 008  | 081                  | Thick Sawtooth             |
| 405                   | 000          | 018  | 081                  | Dynamic Sawtooth           |
| 406                   | 000          | 019  | 081                  | Digital Sawtooth           |
| 407                   | 000          | 020  | 081                  | Big Lead                   |
| 408                   | 000          | 024  | 081                  | Heavy Synth                |
| 409                   | 000          | 025  | 081                  | Waspy Synth                |
| 410                   | 000          | 040  | 081                  | Pulse Sawtooth             |
| 411                   | 000          | 041  | 081                  | Dr. Lead                   |
| 412                   | 000          | 045  | 081                  | Velocity Lead              |
| 413                   | 000          | 096  | 081                  | Sequenced Analog           |
| 414                   | 000          | 000  | 082                  | Calliope Lead              |
| 415                   | 000          | 065  | 082                  | Pure Pad                   |
| 416                   | 000          | 000  | 083                  | Chiff Lead                 |
| 417                   | 000          | 064  | 083                  | Rubby                      |
| 418                   | 000          | 000  | 084                  | Charang Lead               |
| 419                   | 000          | 064  | 084                  | Distorted Lead             |
| 420                   | 000          | 065  | 084                  | Wire Lead                  |
| 421                   | 000          | 000  | 085                  | Voice Lead                 |
| 422                   | 000          | 024  | 085                  | Synth Aahs                 |

| Voice#              | Bank Select# |      | MIDI Program Change# | Voice Name           |
|---------------------|--------------|------|----------------------|----------------------|
|                     | MSB#         | LSB# |                      |                      |
| 423                 | 000          | 064  | 085                  | Vox Lead             |
| 424                 | 000          | 000  | 086                  | Fifths Lead          |
| 425                 | 000          | 035  | 086                  | Big Five             |
| 426                 | 000          | 000  | 087                  | Bass & Lead          |
| 427                 | 000          | 016  | 087                  | Big & Low            |
| 428                 | 000          | 064  | 087                  | Fat & Perky          |
| 429                 | 000          | 065  | 087                  | Soft Whirl           |
| <b>SYNTH PAD</b>    |              |      |                      |                      |
| 430                 | 000          | 000  | 088                  | New Age Pad          |
| 431                 | 000          | 064  | 088                  | Fantasy              |
| 432                 | 000          | 000  | 089                  | Warm Pad             |
| 433                 | 000          | 016  | 089                  | Thick Pad            |
| 434                 | 000          | 017  | 089                  | Soft Pad             |
| 435                 | 000          | 018  | 089                  | Sine Pad             |
| 436                 | 000          | 064  | 089                  | Horn Pad             |
| 437                 | 000          | 065  | 089                  | Rotary Strings       |
| 438                 | 000          | 000  | 090                  | Poly Synth Pad       |
| 439                 | 000          | 064  | 090                  | Poly Pad 80          |
| 440                 | 000          | 065  | 090                  | Click Pad            |
| 441                 | 000          | 066  | 090                  | Analog Pad           |
| 442                 | 000          | 067  | 090                  | Square Pad           |
| 443                 | 000          | 000  | 091                  | Choir Pad            |
| 444                 | 000          | 064  | 091                  | Heaven               |
| 445                 | 000          | 066  | 091                  | Itopia               |
| 446                 | 000          | 067  | 091                  | CC Pad               |
| 447                 | 000          | 000  | 092                  | Bowed Pad            |
| 448                 | 000          | 064  | 092                  | Glacier              |
| 449                 | 000          | 065  | 092                  | Glass Pad            |
| 450                 | 000          | 000  | 093                  | Metallic Pad         |
| 451                 | 000          | 064  | 093                  | Tine Pad             |
| 452                 | 000          | 065  | 093                  | Pan Pad              |
| 453                 | 000          | 000  | 094                  | Halo Pad             |
| 454                 | 000          | 000  | 095                  | Sweep Pad            |
| 455                 | 000          | 020  | 095                  | Shwimmer             |
| 456                 | 000          | 027  | 095                  | Converge             |
| 457                 | 000          | 064  | 095                  | Polar Pad            |
| 458                 | 000          | 066  | 095                  | Celestial            |
| <b>SYNTH EFFECT</b> |              |      |                      |                      |
| 459                 | 000          | 000  | 096                  | Rain                 |
| 460                 | 000          | 045  | 096                  | Clavi Pad            |
| 461                 | 000          | 064  | 096                  | Harmo Rain           |
| 462                 | 000          | 065  | 096                  | African Wind         |
| 463                 | 000          | 066  | 096                  | Carib                |
| 464                 | 000          | 000  | 097                  | Sound Track          |
| 465                 | 000          | 027  | 097                  | Prologue             |
| 466                 | 000          | 064  | 097                  | Ancestral            |
| 467                 | 000          | 000  | 098                  | Crystal              |
| 468                 | 000          | 012  | 098                  | Synth Drum Comp      |
| 469                 | 000          | 014  | 098                  | Popcorn              |
| 470                 | 000          | 018  | 098                  | Tiny Bells           |
| 471                 | 000          | 035  | 098                  | Round Glockenspiel   |
| 472                 | 000          | 040  | 098                  | Glockenspiel Chimes  |
| 473                 | 000          | 041  | 098                  | Clear Bells          |
| 474                 | 000          | 042  | 098                  | Chorus Bells         |
| 475                 | 000          | 064  | 098                  | Synth Mallet         |
| 476                 | 000          | 065  | 098                  | Soft Crystal         |
| 477                 | 000          | 066  | 098                  | Loud Glockenspiel    |
| 478                 | 000          | 067  | 098                  | Christmas Bells      |
| 479                 | 000          | 068  | 098                  | Vibraphone Bells     |
| 480                 | 000          | 069  | 098                  | Digital Bells        |
| 481                 | 000          | 070  | 098                  | Air Bells            |
| 482                 | 000          | 071  | 098                  | Bell Harp            |
| 483                 | 000          | 072  | 098                  | Gamelimba            |
| 484                 | 000          | 000  | 099                  | Atmosphere           |
| 485                 | 000          | 018  | 099                  | Warm Atmosphere      |
| 486                 | 000          | 019  | 099                  | Hollow Release       |
| 487                 | 000          | 040  | 099                  | Nylon Electric Piano |
| 488                 | 000          | 064  | 099                  | Nylon Harp           |
| 489                 | 000          | 065  | 099                  | Harp Vox             |
| 490                 | 000          | 066  | 099                  | Atmosphere Pad       |
| 491                 | 000          | 067  | 099                  | Planet               |
| 492                 | 000          | 000  | 100                  | Brightness           |
| 493                 | 000          | 064  | 100                  | Fantasy Bells        |



| Voice#              | Bank Select# |      | MIDI Program Change# | Voice Name            |
|---------------------|--------------|------|----------------------|-----------------------|
|                     | MSB#         | LSB# |                      |                       |
| 494                 | 000          | 096  | 100                  | Smokey                |
| 495                 | 000          | 000  | 101                  | Goblins               |
| 496                 | 000          | 064  | 101                  | Goblins Synth         |
| 497                 | 000          | 065  | 101                  | Creepier              |
| 498                 | 000          | 066  | 101                  | Ring Pad              |
| 499                 | 000          | 067  | 101                  | Ritual                |
| 500                 | 000          | 068  | 101                  | To Heaven             |
| 501                 | 000          | 070  | 101                  | Night                 |
| 502                 | 000          | 071  | 101                  | Glisten               |
| 503                 | 000          | 096  | 101                  | Bell Choir            |
| 504                 | 000          | 000  | 102                  | Echoes                |
| 505                 | 000          | 008  | 102                  | Echoes 2              |
| 506                 | 000          | 014  | 102                  | Echo Pan              |
| 507                 | 000          | 064  | 102                  | Echo Bells            |
| 508                 | 000          | 065  | 102                  | Big Pan               |
| 509                 | 000          | 066  | 102                  | Synth Piano           |
| 510                 | 000          | 067  | 102                  | Creation              |
| 511                 | 000          | 068  | 102                  | Star Dust             |
| 512                 | 000          | 069  | 102                  | Resonant & Panning    |
| 513                 | 000          | 000  | 103                  | Sci-Fi                |
| 514                 | 000          | 064  | 103                  | Starz                 |
| <b>ETHNIC</b>       |              |      |                      |                       |
| 515                 | 000          | 000  | 104                  | Sitar                 |
| 516                 | 000          | 032  | 104                  | Detuned Sitar         |
| 517                 | 000          | 035  | 104                  | Sitar 2               |
| 518                 | 000          | 096  | 104                  | Tambra                |
| 519                 | 000          | 097  | 104                  | Tamboura              |
| 520                 | 000          | 000  | 105                  | Banjo                 |
| 521                 | 000          | 028  | 105                  | Muted Banjo           |
| 522                 | 000          | 096  | 105                  | Rabab                 |
| 523                 | 000          | 097  | 105                  | Gopichant             |
| 524                 | 000          | 098  | 105                  | Oud                   |
| 525                 | 000          | 000  | 106                  | Shamisen              |
| 526                 | 000          | 000  | 107                  | Koto                  |
| 527                 | 000          | 096  | 107                  | Taisho-kin            |
| 528                 | 000          | 097  | 107                  | Kanoon                |
| 529                 | 000          | 000  | 108                  | Kalimba               |
| 530                 | 000          | 000  | 109                  | Bagpipe               |
| 531                 | 000          | 000  | 110                  | Fiddle                |
| 532                 | 000          | 000  | 111                  | Shanai                |
| 533                 | 000          | 064  | 111                  | Shanai 2              |
| 534                 | 000          | 096  | 111                  | Pungi                 |
| 535                 | 000          | 097  | 111                  | Hichiriki             |
| <b>PERCUSSION</b>   |              |      |                      |                       |
| 536                 | 000          | 000  | 112                  | Tinkle Bell           |
| 537                 | 000          | 096  | 112                  | Bonang                |
| 538                 | 000          | 097  | 112                  | Altair                |
| 539                 | 000          | 098  | 112                  | Gamelan Gongs         |
| 540                 | 000          | 099  | 112                  | Stereo Gamelan Gongs  |
| 541                 | 000          | 100  | 112                  | Rama Cymbal           |
| 542                 | 000          | 101  | 112                  | Asian Bells           |
| 543                 | 000          | 000  | 113                  | Agogo                 |
| 544                 | 000          | 000  | 114                  | Steel Drums           |
| 545                 | 000          | 097  | 114                  | Glass Percussion      |
| 546                 | 000          | 098  | 114                  | Thai Bells            |
| 547                 | 000          | 000  | 115                  | Woodblock             |
| 548                 | 000          | 096  | 115                  | Castanets             |
| 549                 | 000          | 000  | 116                  | Taiko Drum            |
| 550                 | 000          | 096  | 116                  | Gran Cassa            |
| 551                 | 000          | 000  | 117                  | Melodic Tom           |
| 552                 | 000          | 064  | 117                  | Melodic Tom 2         |
| 553                 | 000          | 065  | 117                  | Real Tom              |
| 554                 | 000          | 066  | 117                  | Rock Tom              |
| 555                 | 000          | 000  | 118                  | Synth Drum            |
| 556                 | 000          | 064  | 118                  | Analog Tom            |
| 557                 | 000          | 065  | 118                  | Electronic Percussion |
| 558                 | 000          | 000  | 119                  | Reverse Cymbal        |
| <b>SOUND EFFECT</b> |              |      |                      |                       |
| 559                 | 000          | 000  | 120                  | Fret Noise            |
| 560                 | 000          | 000  | 121                  | Breath Noise          |
| 561                 | 000          | 000  | 122                  | Seashore              |
| 562                 | 000          | 000  | 123                  | Bird Tweet            |
| 563                 | 000          | 000  | 124                  | Telephone Ring        |

| Voice#     | Bank Select# |      | MIDI Program Change# | Voice Name          |
|------------|--------------|------|----------------------|---------------------|
|            | MSB#         | LSB# |                      |                     |
| 564        | 000          | 000  | 125                  | Helicopter          |
| 565        | 000          | 000  | 126                  | Applause            |
| 566        | 000          | 000  | 127                  | Gunshot             |
| <b>SFX</b> |              |      |                      |                     |
| 567        | 064          | 000  | 000                  | Cutting Noise       |
| 568        | 064          | 000  | 001                  | Cutting Noise 2     |
| 569        | 064          | 000  | 003                  | String Slap         |
| 570        | 064          | 000  | 016                  | Flute Key Click     |
| 571        | 064          | 000  | 032                  | Shower              |
| 572        | 064          | 000  | 033                  | Thunder             |
| 573        | 064          | 000  | 034                  | Wind                |
| 574        | 064          | 000  | 035                  | Stream              |
| 575        | 064          | 000  | 036                  | Bubble              |
| 576        | 064          | 000  | 037                  | Feed                |
| 577        | 064          | 000  | 048                  | Dog                 |
| 578        | 064          | 000  | 049                  | Horse               |
| 579        | 064          | 000  | 050                  | Bird Tweet 2        |
| 580        | 064          | 000  | 054                  | Ghost               |
| 581        | 064          | 000  | 055                  | Maou                |
| 582        | 064          | 000  | 064                  | Phone Call          |
| 583        | 064          | 000  | 065                  | Door Squeak         |
| 584        | 064          | 000  | 066                  | Door Slam           |
| 585        | 064          | 000  | 067                  | Scratch Cut         |
| 586        | 064          | 000  | 068                  | Scratch Split       |
| 587        | 064          | 000  | 069                  | Wind Chime          |
| 588        | 064          | 000  | 070                  | Telephone Ring 2    |
| 589        | 064          | 000  | 080                  | Car Engine Ignition |
| 590        | 064          | 000  | 081                  | Car Tires Squeal    |
| 591        | 064          | 000  | 082                  | Car Passing         |
| 592        | 064          | 000  | 083                  | Car Crash           |
| 593        | 064          | 000  | 084                  | Siren               |
| 594        | 064          | 000  | 085                  | Train               |
| 595        | 064          | 000  | 086                  | Jet Plane           |
| 596        | 064          | 000  | 087                  | Starship            |
| 597        | 064          | 000  | 088                  | Burst               |
| 598        | 064          | 000  | 089                  | Roller Coaster      |
| 599        | 064          | 000  | 090                  | Submarine           |
| 600        | 064          | 000  | 096                  | Laugh               |
| 601        | 064          | 000  | 097                  | Scream              |
| 602        | 064          | 000  | 098                  | Punch               |
| 603        | 064          | 000  | 099                  | Heartbeat           |
| 604        | 064          | 000  | 100                  | Footsteps           |
| 605        | 064          | 000  | 112                  | Machine Gun         |
| 606        | 064          | 000  | 113                  | Laser Gun           |
| 607        | 064          | 000  | 114                  | Explosion           |
| 608        | 064          | 000  | 115                  | Firework            |

## ■ ABC/DoReMi Voices

| Voice# | Bank Select# |      | MIDI Program Change# | Voice Name    |
|--------|--------------|------|----------------------|---------------|
|        | MSB#         | LSB# |                      |               |
| 609    | 000          | 112  | 126                  | ABC (Oboe)    |
| 610    | 000          | 112  | 127                  | DoReMi (Oboe) |

# Style List

| No.            | Style Name      |
|----------------|-----------------|
| <b>8 beat</b>  |                 |
| 1              | 8 Beat 1        |
| 2              | 8 Beat 2        |
| 3              | 8 Beat Adria    |
| 4              | 8 Beat Pop 1    |
| 5              | British Pop     |
| 6              | 8 Beat Soft     |
| <b>16 beat</b> |                 |
| 7              | 16 Beat 1       |
| 8              | 16 Beat 2       |
| 9              | 16 Beat 3       |
| 10             | Soft Fusion     |
| 11             | Hip Hop Pop     |
| 12             | Cool Dance      |
| 13             | 16 Beat Funk    |
| 14             | Funky Pop       |
| 15             | 16 Beat 4       |
| <b>Ballad</b>  |                 |
| 16             | Piano Ballad    |
| 17             | U.S. Ballad     |
| 18             | Slow Rock       |
| 19             | Modern 6/8      |
| 20             | Guitar Ballad   |
| 21             | Organ Ballad    |
| 22             | Epic Ballad     |
| 23             | 16 Beat Ballad  |
| 24             | Rock Ballad     |
| 25             | Slow Ballad     |
| 26             | Pop Ballad      |
| <b>Rock</b>    |                 |
| 27             | Rock 1          |
| 28             | Hard Rock       |
| 29             | Rock & Roll     |
| 30             | Twist           |
| 31             | 4/4 Blues       |
| 32             | 6/8 Rock        |
| <b>Dance</b>   |                 |
| 33             | House           |
| 34             | Eurobeat        |
| 35             | Euro House      |
| 36             | Trance          |
| 37             | Clubdance       |
| 38             | Techno          |
| 39             | Hip Hop         |
| 40             | Groundbeat      |
| 41             | 90's Disco      |
| 42             | 70's Disco      |
| 43             | Disco Chocolate |

| No.                       | Style Name      |
|---------------------------|-----------------|
| 44                        | Disco Funk      |
| 45                        | Disco Fox       |
| 46                        | Disco Party     |
| 47                        | Disco Latin     |
| <b>Swing &amp; Jazz</b>   |                 |
| 48                        | Swing           |
| 49                        | Big Band 1      |
| 50                        | Big Band Ballad |
| 51                        | Jazz Ballad     |
| 52                        | Jazz Trio       |
| 53                        | Boogie          |
| 54                        | Bebop           |
| 55                        | Big Band 2      |
| 56                        | Dixieland       |
| <b>Rhythm &amp; Blues</b> |                 |
| 57                        | Gospel Shuffle  |
| 58                        | R & B           |
| 59                        | Motown          |
| 60                        | Soul Shuffle    |
| 61                        | 6/8 Blues       |
| <b>Country</b>            |                 |
| 62                        | Country Rock    |
| 63                        | Country 8 Beat  |
| 64                        | Country Pop     |
| 65                        | Country Swing   |
| 66                        | Bluegrass       |
| 67                        | Country Ballad  |
| <b>Latin</b>              |                 |
| 68                        | Samba Rio       |
| 69                        | Bossa Nova      |
| 70                        | Espanole        |
| 71                        | Swing Reggae    |
| 72                        | Salsa           |
| 73                        | Mambo           |
| <b>Ballroom</b>           |                 |
| 74                        | Slow Fox        |
| 75                        | Quickstep       |
| 76                        | Tango           |
| 77                        | Cha Cha Cha     |
| 78                        | Samba           |
| 79                        | Rhumba          |
| 80                        | Pasodoble       |
| 81                        | Jive            |
| 82                        | Beguine         |
| 83                        | Foxtrot         |
| <b>March &amp; Waltz</b>  |                 |
| 84                        | U.S. March      |
| 85                        | German March    |

| No.            | Style Name       |
|----------------|------------------|
| 86             | 6/8 March        |
| 87             | Polka Pop        |
| 88             | PolkaOberkrainer |
| 89             | Jazz Waltz       |
| 90             | Country Waltz    |
| 91             | Vienna Waltz     |
| 92             | Slow Waltz       |
| 93             | Orch. Waltz      |
| 94             | WaltzOberkrainer |
| 95             | Musette          |
| 96             | Guitar Waltz     |
| <b>Pianist</b> |                  |
| 97             | Stride           |
| 98             | Boogie           |
| 99             | Swing            |
| 100            | Pianoman         |
| 101            | Ballad           |
| 102            | Ragtime          |
| 103            | March            |
| 104            | 6/8 March        |
| 105            | Waltz            |
| 106            | Jazz Waltz       |

# Drum Kit List

- \* “←” 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 listed. For example, in “117: Standard Kit 1”, the “Seq Click H” (Note# 36/Note C1) corresponds to (Note# 24/Note C0).

| Voice No.  |      |       |      | 117             | 118             | 119         | 120         |
|------------|------|-------|------|-----------------|-----------------|-------------|-------------|
| MSB/LSB/PC |      |       |      | 127/000/000     | 127/000/001     | 127/000/008 | 127/000/16  |
| Keyboard   |      | MIDI  |      | Standard Kit 1  | Standard Kit 2  | Room Kit    | Rock Kit    |
| Note#      | Note | Note# | Note |                 |                 |             |             |
| 25         | C#0  | 13    | C#-1 | Surdo Mute      | ←               | ←           | ←           |
| 26         | D0   | 14    | D-1  | Surdo Open      | ←               | ←           | ←           |
| 27         | D#0  | 15    | D#-1 | Hi Q            | ←               | ←           | ←           |
| 28         | E0   | 16    | E-1  | Whip Slap       | ←               | ←           | ←           |
| 29         | F0   | 17    | F-1  | Scratch Push    | ←               | ←           | ←           |
| 30         | F#0  | 18    | F#-1 | Scratch Pull    | ←               | ←           | ←           |
| 31         | G0   | 19    | G-1  | Finger Snap     | ←               | ←           | ←           |
| 32         | G#0  | 20    | G#-1 | Click Noise     | ←               | ←           | ←           |
| 33         | A0   | 21    | A-1  | Metronome Click | ←               | ←           | ←           |
| 34         | A#0  | 22    | A#-1 | Metronome Bell  | ←               | ←           | ←           |
| 35         | B0   | 23    | B-1  | Seq Click L     | ←               | ←           | ←           |
| 36         | C1   | 24    | C0   | Seq Click H     | ←               | ←           | ←           |
| 37         | C#1  | 25    | C#0  | Brush Tap       | ←               | ←           | ←           |
| 38         | D1   | 26    | D0   | Brush Swirl     | ←               | ←           | ←           |
| 39         | D#1  | 27    | D#0  | Brush Slap      | ←               | ←           | ←           |
| 40         | E1   | 28    | E0   | Brush Tap Swirl | ←               | ←           | ←           |
| 41         | F1   | 29    | F0   | Snare Roll      | ←               | ←           | ←           |
| 42         | F#1  | 30    | F#0  | Castanet        | ←               | ←           | ←           |
| 43         | G1   | 31    | G0   | Snare H Soft    | Snare H Soft 2  | ←           | SD Rock H   |
| 44         | G#1  | 32    | G#0  | Sticks          | ←               | ←           | ←           |
| 45         | A1   | 33    | A0   | Bass Drum Soft  | ←               | ←           | ←           |
| 46         | A#1  | 34    | A#0  | Open Rim Shot   | Open Rim Shot 2 | ←           | ←           |
| 47         | B1   | 35    | B0   | Bass Drum Hard  | ←               | ←           | Bass Drum H |
| 48         | C2   | 36    | C1   | Bass Drum       | Bass Drum 2     | ←           | BD Rock     |
| 49         | C#2  | 37    | C#1  | Side Stick      | ←               | ←           | ←           |
| 50         | D2   | 38    | D1   | Snare M         | Snare M 2       | SD Room L   | SD Rock L   |
| 51         | D#2  | 39    | D#1  | Hand Clap       | ←               | ←           | ←           |
| 52         | E2   | 40    | E1   | Snare H Hard    | Snare H Hard 2  | SD Room H   | SD Rock Rim |
| 53         | F2   | 41    | F1   | Floor Tom L     | ←               | Room Tom 1  | Rock Tom 1  |
| 54         | F#2  | 42    | F#1  | Hi-Hat Closed   | ←               | ←           | ←           |
| 55         | G2   | 43    | G1   | Floor Tom H     | ←               | Room Tom 2  | Rock Tom 2  |
| 56         | G#2  | 44    | G#1  | Hi-Hat Pedal    | ←               | ←           | ←           |
| 57         | A2   | 45    | A1   | Low Tom         | ←               | Room Tom 3  | Rock Tom 3  |
| 58         | A#2  | 46    | A#1  | Hi-Hat Open     | ←               | ←           | ←           |
| 59         | B2   | 47    | B1   | Mid Tom L       | ←               | Room Tom 4  | Rock Tom 4  |
| 60         | C3   | 48    | C2   | Mid Tom H       | ←               | Room Tom 5  | Rock Tom 5  |
| 61         | C#3  | 49    | C#2  | Crash Cymbal 1  | ←               | ←           | ←           |
| 62         | D3   | 50    | D2   | High Tom        | ←               | Room Tom 6  | Rock Tom 6  |
| 63         | D#3  | 51    | D#2  | Ride Cymbal 1   | ←               | ←           | ←           |
| 64         | E3   | 52    | E2   | Chinese Cymbal  | ←               | ←           | ←           |
| 65         | F3   | 53    | F2   | Ride Cymbal Cup | ←               | ←           | ←           |
| 66         | F#3  | 54    | F#2  | Tambourine      | ←               | ←           | ←           |

| Voice No.  |      |       |      | 117             | 118            | 119         | 120        |
|------------|------|-------|------|-----------------|----------------|-------------|------------|
| MSB/LSB/PC |      |       |      | 127/000/000     | 127/000/001    | 127/000/008 | 127/000/16 |
| Keyboard   |      | MIDI  |      | Standard Kit 1  | Standard Kit 2 | Room Kit    | Rock Kit   |
| Note#      | Note | Note# | Note |                 |                |             |            |
| 67         | G3   | 55    | G2   | Splash Cymbal   | ←              | ←           | ←          |
| 68         | G#3  | 56    | G#2  | Cowbell         | ←              | ←           | ←          |
| 69         | A3   | 57    | A2   | Crash Cymbal 2  | ←              | ←           | ←          |
| 70         | A#3  | 58    | A#2  | Vibraslap       | ←              | ←           | ←          |
| 71         | B3   | 59    | B2   | Ride Cymbal 2   | ←              | ←           | ←          |
| 72         | C4   | 60    | C3   | Bongo H         | ←              | ←           | ←          |
| 73         | C#4  | 61    | C#3  | Bongo L         | ←              | ←           | ←          |
| 74         | D4   | 62    | D3   | Conga H Mute    | ←              | ←           | ←          |
| 75         | D#4  | 63    | D#3  | Conga H Open    | ←              | ←           | ←          |
| 76         | E4   | 64    | E3   | Conga L         | ←              | ←           | ←          |
| 77         | F4   | 65    | F3   | Timbale H       | ←              | ←           | ←          |
| 78         | F#4  | 66    | F#3  | Timbale L       | ←              | ←           | ←          |
| 79         | G4   | 67    | G3   | Agogo H         | ←              | ←           | ←          |
| 80         | G#4  | 68    | G#3  | Agogo L         | ←              | ←           | ←          |
| 81         | A4   | 69    | A3   | Cabasa          | ←              | ←           | ←          |
| 82         | A#4  | 70    | A#3  | Maracas         | ←              | ←           | ←          |
| 83         | B4   | 71    | B3   | Samba Whistle H | ←              | ←           | ←          |
| 84         | C5   | 72    | C4   | Samba Whistle L | ←              | ←           | ←          |
| 85         | C#5  | 73    | C#4  | Guiro Short     | ←              | ←           | ←          |
| 86         | D5   | 74    | D4   | Guiro Long      | ←              | ←           | ←          |
| 87         | D#5  | 75    | D#4  | Claves          | ←              | ←           | ←          |
| 88         | E5   | 76    | E4   | Wood Block H    | ←              | ←           | ←          |
| 89         | F5   | 77    | F4   | Wood Block L    | ←              | ←           | ←          |
| 90         | F#5  | 78    | F#4  | Cuica Mute      | ←              | ←           | ←          |
| 91         | G5   | 79    | G4   | Cuica Open      | ←              | ←           | ←          |
| 92         | G#5  | 80    | G#4  | Triangle Mute   | ←              | ←           | ←          |
| 93         | A5   | 81    | A4   | Triangle Open   | ←              | ←           | ←          |
| 94         | A#5  | 82    | A#4  | Shaker          | ←              | ←           | ←          |
| 95         | B5   | 83    | B4   | Jingle Bell     | ←              | ←           | ←          |
| 96         | C6   | 84    | C5   | Bell Tree       | ←              | ←           | ←          |

| Voice No.  |      |       |      | 121            | 122            | 123            | 124        |
|------------|------|-------|------|----------------|----------------|----------------|------------|
| MSB/LSB/PC |      |       |      | 127/000/24     | 127/000/25     | 127/000/27     | 127/000/32 |
| Keyboard   |      | MIDI  |      | Electronic Kit | Analog Kit     | Dance Kit      | Jazz Kit   |
| Note#      | Note | Note# | Note |                |                |                |            |
| 25         | C#0  | 13    | C#-1 | ←              | ←              | ←              | ←          |
| 26         | D0   | 14    | D-1  | ←              | ←              | ←              | ←          |
| 27         | D#0  | 15    | D#-1 | ←              | ←              | ←              | ←          |
| 28         | E0   | 16    | E-1  | ←              | ←              | ←              | ←          |
| 29         | F0   | 17    | F-1  | ←              | ←              | ←              | ←          |
| 30         | F#0  | 18    | F#-1 | ←              | ←              | ←              | ←          |
| 31         | G0   | 19    | G-1  | ←              | ←              | ←              | ←          |
| 32         | G#0  | 20    | G#-1 | ←              | ←              | ←              | ←          |
| 33         | A0   | 21    | A-1  | ←              | ←              | ←              | ←          |
| 34         | A#0  | 22    | A#-1 | ←              | ←              | ←              | ←          |
| 35         | B0   | 23    | B-1  | ←              | ←              | ←              | ←          |
| 36         | C1   | 24    | C0   | ←              | ←              | ←              | ←          |
| 37         | C#1  | 25    | C#0  | ←              | ←              | ←              | ←          |
| 38         | D1   | 26    | D0   | ←              | ←              | ←              | ←          |
| 39         | D#1  | 27    | D#0  | ←              | ←              | ←              | ←          |
| 40         | E1   | 28    | E0   | Reverse Cymbal | Reverse Cymbal | Reverse Cymbal | ←          |
| 41         | F1   | 29    | F0   | ←              | ←              | ←              | ←          |
| 42         | F#1  | 30    | F#0  | Hi Q 2         | Hi Q 2         | Hi Q 2         | ←          |

| Voice No.  |      |       |      | 121            | 122                | 123                | 124             |
|------------|------|-------|------|----------------|--------------------|--------------------|-----------------|
| MSB/LSB/PC |      |       |      | 127/000/24     | 127/000/25         | 127/000/27         | 127/000/32      |
| Keyboard   |      | MIDI  |      | Electronic Kit | Analog Kit         | Dance Kit          | Jazz Kit        |
| Note#      | Note | Note# | Note |                |                    |                    |                 |
| 43         | G1   | 31    | G0   | Snare L        | SD Rock H          | AnSD Snappy        | SD Jazz H Light |
| 44         | G#1  | 32    | G#0  | ←              | ←                  | ←                  | ←               |
| 45         | A1   | 33    | A0   | Bass Drum H    | Bass Drum H        | AnBD Dance-1       | ←               |
| 46         | A#1  | 34    | A#0  | ←              | ←                  | ←                  | ←               |
| 47         | B1   | 35    | B0   | BD Rock        | BD Analog L        | AnBD Dance-2       | ←               |
| 48         | C2   | 36    | C1   | BD Gate        | BD Analog H        | AnBD Dance-3       | BD Jazz         |
| 49         | C#2  | 37    | C#1  | ←              | Analog Side Stick  | Analog Side Stick  | ←               |
| 50         | D2   | 38    | D1   | SD Rock L      | Analog Snare 1     | AnSD Q             | SD Jazz L       |
| 51         | D#2  | 39    | D#1  | ←              | ←                  | ←                  | ←               |
| 52         | E2   | 40    | E1   | SD Rock H      | Analog Snare 2     | AnSD Ana+Acoustic  | SD Jazz M       |
| 53         | F2   | 41    | F1   | E Tom 1        | Analog Tom 1       | Analog Tom 1       | Jazz Tom 1      |
| 54         | F#2  | 42    | F#1  | ←              | Analog HH Closed 1 | Analog HH Closed 3 | ←               |
| 55         | G2   | 43    | G1   | E Tom 2        | Analog Tom 2       | Analog Tom 2       | Jazz Tom 2      |
| 56         | G#2  | 44    | G#1  | ←              | Analog HH Closed 2 | Analog HH Closed 4 | ←               |
| 57         | A2   | 45    | A1   | E Tom 3        | Analog Tom 3       | Analog Tom 3       | Jazz Tom 3      |
| 58         | A#2  | 46    | A#1  | ←              | Analog HH Open     | Analog HH Open 2   | ←               |
| 59         | B2   | 47    | B1   | E Tom 4        | Analog Tom 4       | Analog Tom 4       | Jazz Tom 4      |
| 60         | C3   | 48    | C2   | E Tom 5        | Analog Tom 5       | Analog Tom 5       | Jazz Tom 5      |
| 61         | C#3  | 49    | C#2  | ←              | Analog Cymbal      | Analog Cymbal      | ←               |
| 62         | D3   | 50    | D2   | E Tom 6        | Analog Tom 6       | Analog Tom 6       | Jazz Tom 6      |
| 63         | D#3  | 51    | D#2  | ←              | ←                  | ←                  | ←               |
| 64         | E3   | 52    | E2   | ←              | ←                  | ←                  | ←               |
| 65         | F3   | 53    | F2   | ←              | ←                  | ←                  | ←               |
| 66         | F#3  | 54    | F#2  | ←              | ←                  | ←                  | ←               |
| 67         | G3   | 55    | G2   | ←              | ←                  | ←                  | ←               |
| 68         | G#3  | 56    | G#2  | ←              | Analog Cowbell     | Analog Cowbell     | ←               |
| 69         | A3   | 57    | A2   | ←              | ←                  | ←                  | ←               |
| 70         | A#3  | 58    | A#2  | ←              | ←                  | ←                  | ←               |
| 71         | B3   | 59    | B2   | ←              | ←                  | ←                  | ←               |
| 72         | C4   | 60    | C3   | ←              | ←                  | ←                  | ←               |
| 73         | C#4  | 61    | C#3  | ←              | ←                  | ←                  | ←               |
| 74         | D4   | 62    | D3   | ←              | Analog Conga H     | Analog Conga H     | ←               |
| 75         | D#4  | 63    | D#3  | ←              | Analog Conga M     | Analog Conga M     | ←               |
| 76         | E4   | 64    | E3   | ←              | Analog Conga L     | Analog Conga L     | ←               |
| 77         | F4   | 65    | F3   | ←              | ←                  | ←                  | ←               |
| 78         | F#4  | 66    | F#3  | ←              | ←                  | ←                  | ←               |
| 79         | G4   | 67    | G3   | ←              | ←                  | ←                  | ←               |
| 80         | G#4  | 68    | G#3  | ←              | ←                  | ←                  | ←               |
| 81         | A4   | 69    | A3   | ←              | ←                  | ←                  | ←               |
| 82         | A#4  | 70    | A#3  | ←              | Analog Maracas     | Analog Maracas     | ←               |
| 83         | B4   | 71    | B3   | ←              | ←                  | ←                  | ←               |
| 84         | C5   | 72    | C4   | ←              | ←                  | ←                  | ←               |
| 85         | C#5  | 73    | C#4  | ←              | ←                  | ←                  | ←               |
| 86         | D5   | 74    | D4   | ←              | ←                  | ←                  | ←               |
| 87         | D#5  | 75    | D#4  | ←              | Analog Claves      | Analog Claves      | ←               |
| 88         | E5   | 76    | E4   | ←              | ←                  | ←                  | ←               |
| 89         | F5   | 77    | F4   | ←              | ←                  | ←                  | ←               |
| 90         | F#5  | 78    | F#4  | Scratch Push   | Scratch Push       | Scratch Push       | ←               |
| 91         | G5   | 79    | G4   | Scratch Pull   | Scratch Pull       | Scratch Pull       | ←               |
| 92         | G#5  | 80    | G#4  | ←              | ←                  | ←                  | ←               |
| 93         | A5   | 81    | A4   | ←              | ←                  | ←                  | ←               |
| 94         | A#5  | 82    | A#4  | ←              | ←                  | ←                  | ←               |
| 95         | B5   | 83    | B4   | ←              | ←                  | ←                  | ←               |
| 96         | C6   | 84    | C5   | ←              | ←                  | ←                  | ←               |

| Voice No.  |      |       |      | 125          | 126              | 127             | 128                 |
|------------|------|-------|------|--------------|------------------|-----------------|---------------------|
| MSB/LSB/PC |      |       |      | 127/000/40   | 127/000/48       | 126/000/000     | 126/000/001         |
| Keyboard   |      | MIDI  |      | Brush Kit    | Symphonic Kit    | SFX Kit 1       | SFX Kit 2           |
| Note#      | Note | Note# | Note |              |                  |                 |                     |
| 25         | C#0  | 13    | C#-1 | ←            | ←                |                 |                     |
| 26         | D0   | 14    | D-1  | ←            | ←                |                 |                     |
| 27         | D#0  | 15    | D#-1 | ←            | ←                |                 |                     |
| 28         | E0   | 16    | E-1  | ←            | ←                |                 |                     |
| 29         | F0   | 17    | F-1  | ←            | ←                |                 |                     |
| 30         | F#0  | 18    | F#-1 | ←            | ←                |                 |                     |
| 31         | G0   | 19    | G-1  | ←            | ←                |                 |                     |
| 32         | G#0  | 20    | G#-1 | ←            | ←                |                 |                     |
| 33         | A0   | 21    | A-1  | ←            | ←                |                 |                     |
| 34         | A#0  | 22    | A#-1 | ←            | ←                |                 |                     |
| 35         | B0   | 23    | B-1  | ←            | ←                |                 |                     |
| 36         | C1   | 24    | C0   | ←            | ←                |                 |                     |
| 37         | C#1  | 25    | C#0  | ←            | ←                |                 |                     |
| 38         | D1   | 26    | D0   | ←            | ←                |                 |                     |
| 39         | D#1  | 27    | D#0  | ←            | ←                |                 |                     |
| 40         | E1   | 28    | E0   | ←            | ←                |                 |                     |
| 41         | F1   | 29    | F0   | ←            | ←                |                 |                     |
| 42         | F#1  | 30    | F#0  | ←            | ←                |                 |                     |
| 43         | G1   | 31    | G0   | Brush Slap L | ←                |                 |                     |
| 44         | G#1  | 32    | G#0  | ←            | ←                |                 |                     |
| 45         | A1   | 33    | A0   | ←            | Bass Drum L      |                 |                     |
| 46         | A#1  | 34    | A#0  | ←            | ←                |                 |                     |
| 47         | B1   | 35    | B0   | ←            | Gran Cassa       |                 |                     |
| 48         | C2   | 36    | C1   | BD Jazz      | Gran Cassa Mute  | Cutting Noise   | Phone Call          |
| 49         | C#2  | 37    | C#1  | ←            | ←                | Cutting Noise 2 | Door Squeak         |
| 50         | D2   | 38    | D1   | Brush Slap   | Marching Sn M    |                 | Door Slam           |
| 51         | D#2  | 39    | D#1  | ←            | ←                | String Slap     | Scratch Cut         |
| 52         | E2   | 40    | E1   | Brush Tap    | Marching Sn H    |                 | Scratch             |
| 53         | F2   | 41    | F1   | Brush Tom 1  | Jazz Tom 1       |                 | Wind Chime          |
| 54         | F#2  | 42    | F#1  | ←            | ←                |                 | Telephone Ring 2    |
| 55         | G2   | 43    | G1   | Brush Tom 2  | Jazz Tom 2       |                 |                     |
| 56         | G#2  | 44    | G#1  | ←            | ←                |                 |                     |
| 57         | A2   | 45    | A1   | Brush Tom 3  | Jazz Tom 3       |                 |                     |
| 58         | A#2  | 46    | A#1  | ←            | ←                |                 |                     |
| 59         | B2   | 47    | B1   | Brush Tom 4  | Jazz Tom 4       |                 |                     |
| 60         | C3   | 48    | C2   | Brush Tom 5  | Jazz Tom 5       |                 |                     |
| 61         | C#3  | 49    | C#2  | ←            | Hand Cym. L      |                 |                     |
| 62         | D3   | 50    | D2   | Brush Tom 6  | Jazz Tom 6       |                 |                     |
| 63         | D#3  | 51    | D#2  | ←            | Hand Cym.Short L |                 |                     |
| 64         | E3   | 52    | E2   | ←            | ←                | Flute Key Click | Car Engine Ignition |
| 65         | F3   | 53    | F2   | ←            | ←                |                 | Car Tires Squeal    |
| 66         | F#3  | 54    | F#2  | ←            | ←                |                 | Car Passing         |
| 67         | G3   | 55    | G2   | ←            | ←                |                 | Car Crash           |
| 68         | G#3  | 56    | G#2  | ←            | ←                |                 | Siren               |
| 69         | A3   | 57    | A2   | ←            | Hand Cym. H      |                 | Train               |
| 70         | A#3  | 58    | A#2  | ←            | ←                |                 | Jet Plane           |
| 71         | B3   | 59    | B2   | ←            | Hand Cym.Short H |                 | Starship            |
| 72         | C4   | 60    | C3   | ←            | ←                |                 | Burst               |
| 73         | C#4  | 61    | C#3  | ←            | ←                |                 | Roller Coaster      |
| 74         | D4   | 62    | D3   | ←            | ←                |                 | Submarine           |
| 75         | D#4  | 63    | D#3  | ←            | ←                |                 |                     |
| 76         | E4   | 64    | E3   | ←            | ←                |                 |                     |
| 77         | F4   | 65    | F3   | ←            | ←                |                 |                     |
| 78         | F#4  | 66    | F#3  | ←            | ←                |                 |                     |

| Voice No.  |      |       |      | 125        | 126           | 127          | 128         |
|------------|------|-------|------|------------|---------------|--------------|-------------|
| MSB/LSB/PC |      |       |      | 127/000/40 | 127/000/48    | 126/000/000  | 126/000/001 |
| Keyboard   |      | MIDI  |      | Brush Kit  | Symphonic Kit | SFX Kit 1    | SFX Kit 2   |
| Note#      | Note | Note# | Note |            |               |              |             |
| 79         | G4   | 67    | G3   | ←          | ←             |              |             |
| 80         | G#4  | 68    | G#3  | ←          | ←             | Shower       | Laugh       |
| 81         | A4   | 69    | A3   | ←          | ←             | Thunder      | Scream      |
| 82         | A#4  | 70    | A#3  | ←          | ←             | Wind         | Punch       |
| 83         | B4   | 71    | B3   | ←          | ←             | Stream       | Heartbeat   |
| 84         | C5   | 72    | C4   | ←          | ←             | Bubble       | FootSteps   |
| 85         | C#5  | 73    | C#4  | ←          | ←             | Feed         |             |
| 86         | D5   | 74    | D4   | ←          | ←             |              |             |
| 87         | D#5  | 75    | D#4  | ←          | ←             |              |             |
| 88         | E5   | 76    | E4   | ←          | ←             |              |             |
| 89         | F5   | 77    | F4   | ←          | ←             |              |             |
| 90         | F#5  | 78    | F#4  | ←          | ←             |              |             |
| 91         | G5   | 79    | G4   | ←          | ←             |              |             |
| 92         | G#5  | 80    | G#4  | ←          | ←             |              |             |
| 93         | A5   | 81    | A4   | ←          | ←             |              |             |
| 94         | A#5  | 82    | A#4  | ←          | ←             |              |             |
| 95         | B5   | 83    | B4   | ←          | ←             |              |             |
| 96         | C6   | 84    | C5   | ←          | ←             | Dog          | Machine Gun |
| 97         | C#6  | 85    | C#5  |            |               | Horse        | Laser Gun   |
| 98         | D6   | 86    | D5   |            |               | Bird Tweet 2 | Explosion   |
| 99         | D#6  | 87    | D#5  |            |               |              | Firework    |
| 100        | E6   | 88    | E5   |            |               |              |             |
| 101        | F6   | 89    | F5   |            |               |              |             |
| 102        | F#6  | 90    | F#5  |            |               | Ghost        |             |
| 103        | G6   | 91    | G5   |            |               | Maou         |             |

# Effect Type List

## ■ Reverb Types

| No. | Reverb Type | Display Name | Description                   |
|-----|-------------|--------------|-------------------------------|
| 1   | Hall 1      | Hall1        | Concert hall reverb.          |
| 2   | Hall 2      | Hall2        |                               |
| 3   | Room 1      | Room1        | Small room reverb.            |
| 4   | Room 2      | Room2        |                               |
| 5   | Stage 1     | Stage1       | Reverb for solo instruments.  |
| 6   | Stage 2     | Stage2       |                               |
| 7   | Plate 1     | Plate1       | Simulated steel plate reverb. |
| 8   | Plate 2     | Plate2       |                               |
| 9   | Off         | Off          | No effect.                    |






















## ■ DSP Types

| No. | DSP Type                    | Display Name   | Description                                                                                     |
|-----|-----------------------------|----------------|-------------------------------------------------------------------------------------------------|
| 1   | Hall 1                      | Hall1          | Concert hall reverb.                                                                            |
| 2   | Hall 2                      | Hall2          |                                                                                                 |
| 3   | Room 1                      | Room1          | Small room reverb.                                                                              |
| 4   | Room 2                      | Room2          |                                                                                                 |
| 5   | Stage 1                     | Stage1         | Reverb for solo instruments.                                                                    |
| 6   | Stage 2                     | Stage2         |                                                                                                 |
| 7   | Plate 1                     | Plate1         | Simulated steel plate reverb.                                                                   |
| 8   | Plate 2                     | Plate2         |                                                                                                 |
| 9   | Early Reflection 1          | ER1            | Early reflections only.                                                                         |
| 10  | Early Reflection 2          | ER2            |                                                                                                 |
| 11  | Gate Reverb                 | Gate1          | Gated reverb effect, in which the reverberation is quickly cut off for special effects.         |
| 12  | Reverse Gate                | Gate2          | Similar to Gate Reverb, but with a reverse increase in reverb.                                  |
| 13  | Chorus 1                    | Chorus1        | Conventional chorus effect with rich, warm chorusing.                                           |
| 14  | Chorus 2                    | Chorus2        |                                                                                                 |
| 15  | Flanger 1                   | Flanger1       | Pronounced three-phase modulation with slight metallic sound.                                   |
| 16  | Flanger 2                   | Flanger2       |                                                                                                 |
| 17  | Symphonic                   | Symphony       | Exceptionally rich & deep chorusing.                                                            |
| 18  | Phaser                      | Phaser         | Pronounced, metallic modulation with periodic phase change.                                     |
| 19  | Rotary Speaker 1            | Rotary1        | Rotary speaker simulation.                                                                      |
| 20  | Rotary Speaker 2            | Rotary2        |                                                                                                 |
| 21  | Tremolo 1                   | Tremolo1       | Rich Tremolo effect with both volume and pitch modulation.                                      |
| 22  | Tremolo 2                   | Tremolo2       |                                                                                                 |
| 23  | Guitar Tremolo              | Guitar Tremolo | Simulated electric guitar tremolo.                                                              |
| 24  | Auto Pan                    | Auto Pan       | Several panning effects that automatically shift the sound position (left, right, front, back). |
| 25  | Auto Wah                    | Auto Wah       | Repeating filter sweep "wah" effect.                                                            |
| 26  | Delay Left - Center - Right | DelayLCR       | Three independent delays, for the left, right and center stereo positions.                      |
| 27  | Delay Left - Right          | DelayLR        | Initial delay for each stereo channel, and two separate feedback delays.                        |
| 28  | Echo                        | Echo           | Stereo delay, with independent feedback level settings for each channel.                        |
| 29  | Cross Delay                 | CrossDly       | Complex effect that sends the delayed repeats "bouncing" between the left and right channels.   |
| 30  | Karaoke                     | Karaoke        | Deep, pronounced echo effect.                                                                   |
| 31  | Distortion Hard             | D Hard         | Hard-edged, warm distortion.                                                                    |
| 32  | Distortion Soft             | D Soft         | Soft, warm distortion.                                                                          |
| 33  | Overdrive                   | Overdrv        | Natural distortion, like that of an overdriven amplifier.                                       |
| 34  | Amp Simulation              | AmpSimu        | Characteristic sound of a guitar amplifier/speaker.                                             |



| No. | DSP Type     | Display Name | Description                                                                                                         |
|-----|--------------|--------------|---------------------------------------------------------------------------------------------------------------------|
| 35  | EQ Disco     | EQ Disco     | Equalizer effect that boosts both high and low frequencies, as is typical in most disco music.                      |
| 36  | EQ Telephone | EQ Tel       | Equalizer effect that cuts both high and low frequencies, to simulate the sound heard through a telephone receiver. |
| 37  | 3Band EQ     | 3BandEQ      | Equalizer with three separate frequency bands.                                                                      |
| 38  | 2Band EQ     | 2BandEQ      | Equalizer with two separate frequency bands.                                                                        |
| 39  | No Effect    | Off          | No effect                                                                                                           |

## ■ Harmony Types

| No. | Harmony Type      | Display Name | Description                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----|-------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Duet              | Duet         | Harmony types 1–5 are pitch-based and add one-, two- or three-note harmonies to the single-note melody played in the right hand. These types only sound when chords are played in the auto accompaniment section of the keyboard. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 2   | Trio              | Trio         |                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 3   | Block             | Block        |                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 4   | Country           | Country      |                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 5   | Octave            | Octave       |                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 6   | Trill 1/4 note    | Tril1/4      |                                                                                                                                                  | 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 accompaniment is on or not; however, the actual speed of the effect depends on the Tempo setting (page 54).<br>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, 1/12 = eighth-note triplets, 1/24 = sixteenth-note triplets.<br><br><ul style="list-style-type: none"> <li>The Trill effect Types (6–12) create two-note trills (alternating notes) when two notes are held.</li> <li>The Tremolo effect Types (13–19) repeat all held notes (up to four).</li> <li>The Echo effect Types (20–26) create delayed repeats of each note played.</li> </ul> |
| 7   | Trill 1/6 note    | Tril1/6      |                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 8   | Trill 1/8 note    | Tril1/8      |                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 9   | Trill 1/12 note   | Tril1/12     |                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 10  | Trill 1/16 note   | Tril1/16     |                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 11  | Trill 1/24 note   | Tril1/24     |                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 12  | Trill 1/32 note   | Tril1/32     |                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 13  | Tremolo 1/4 note  | Trem1/4      |                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 14  | Tremolo 1/6 note  | Trem1/6      |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 15  | Tremolo 1/8 note  | Trem1/8      |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 16  | Tremolo 1/12 note | Trem1/12     |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 17  | Tremolo 1/16 note | Trem1/16     |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 18  | Tremolo 1/24 note | Trem1/24     |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 19  | Tremolo 1/32 note | Trem1/32     |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 20  | Echo 1/4 note     | Echo1/4      |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 21  | Echo 1/6 note     | Echo1/6      |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 22  | Echo 1/8 note     | Echo1/8      |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 23  | Echo 1/12 note    | Echo1/12     |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 24  | Echo 1/16 note    | Echo1/16     |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 25  | Echo 1/24 note    | Echo1/24     |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 26  | Echo 1/32 note    | Echo1/32     |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |



|                         |                    |                |    |
|-------------------------|--------------------|----------------|----|
| Prog<br>Change : True # | o 0 - 127<br>***** | o 0 - 127      |    |
| System Exclusive        | o *3               | o *3           |    |
| : Song Pos.             | x                  | x              |    |
| : Song Sel.             | x                  | x              |    |
| : Tune                  | x                  | x              |    |
| System : Clock          | o                  | o              |    |
| Real Time: Commands     | o *4               | o *4           |    |
| Aux :All Sound OFF      | x                  | o(120,126,127) |    |
| :Reset All Cntrls       | x                  | o(121)         |    |
| :Local ON/OFF           | x                  | o(122)         | *5 |
| :All Notes OFF          | x                  | o(123-125)     |    |
| Mes- :Active Sense      | o                  | o              |    |
| sages:Reset             | x                  | x              |    |

Mode 1 : OMNI ON , POLY      Mode 2 : OMNI ON , MONO      o : Yes  
Mode 3 : OMNI OFF, POLY      Mode 4 : OMNI OFF, MONO      x : No

**NOTE:**

\*1 By default (factory settings) the EZ-30 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, Chorus Type, and DSP Type.

\*2 Messages for these control change numbers cannot be transmitted from the EZ-30 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, ll, 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 Tuning. (Values for "ll" are ignored.)

<MIDI Master Tuning> F0H, 43H, 1nH, 27H, 30H, 00H, 00H, mm, ll, 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, respectively. Any values can be used for "n" and "cc."

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

- mm : Reverb Type MSB
- ll : Reverb Type LSB

Refer to the Effect Map (page 101) for details.

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

- mm : Chorus Type MSB
- ll : Chorus Type LSB

Refer to the Effect Map (page 101) for details.

<DSP Type> F0H, 43H, 1nH, 4CH, 02H, 01H, 40H, mmH, llH, F7H

- mm : DSP Type MSB
- ll : DSP Type LSB

Refer to the Effect Map (page 101) for details.

<DRY Level> F0H, 43H, 1nH, 4CH, 08H, 0mH, 11H, llH, F7H

- ll : Dry Level
- 0m : Channel Number

\*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

- \* If the received value does not contain an effect type in the TYPE LSB, the LSB will be directed to TYPE 0.
- \* The numbers in parentheses in front of the Effect Type names correspond to the number indicated in the display.
- \* By using an external sequencer, which is capable of editing and transmitting the system exclusive messages and parameter changes, you can select the Reverb, Chorus and DSP effect types which are not accessible from the EZ-30 panel itself. When one of the effects is selected by the external sequencer, “ - ” will be shown on the display.

## ● REVERB

| TYPE<br>MSB | TYPE LSB  |    |    |    |           |           |    |          |    |
|-------------|-----------|----|----|----|-----------|-----------|----|----------|----|
|             | 00        | 01 | 02 | 08 | 16        | 17        | 18 | 19       | 20 |
| 000         | No Effect |    |    |    |           |           |    |          |    |
| 001         | (1)Hall1  |    |    |    |           | (2)Hall2  |    |          |    |
| 002         | Room      |    |    |    |           | (3)Room1  |    | (4)Room2 |    |
| 003         | Stage     |    |    |    | (5)Stage1 | (6)Stage2 |    |          |    |
| 004         | Plate     |    |    |    | (7)Plate1 | (8)Plate2 |    |          |    |
| 005...127   | No Effect |    |    |    |           |           |    |          |    |

## ● CHORUS

| TYPE<br>MSB | TYPE LSB  |    |         |          |    |          |    |    |    |
|-------------|-----------|----|---------|----------|----|----------|----|----|----|
|             | 00        | 01 | 02      | 08       | 16 | 17       | 18 | 19 | 20 |
| 000...064   | No Effect |    |         |          |    |          |    |    |    |
| 065         | Chorus    |    | Chorus2 |          |    |          |    |    |    |
| 066         | Celeste   |    |         |          |    | Chorus1  |    |    |    |
| 067         | Flanger   |    |         | Flanger1 |    | Flanger2 |    |    |    |
| 068...127   | No Effect |    |         |          |    |          |    |    |    |

## ● DSP

| TYPE<br>MSB | TYPE LSB                |                          |             |              |                        |                        |                        |              |                       |
|-------------|-------------------------|--------------------------|-------------|--------------|------------------------|------------------------|------------------------|--------------|-----------------------|
|             | 00                      | 01                       | 02          | 08           | 16                     | 17                     | 18                     | 19           | 20                    |
| 000         | No Effect               |                          |             |              |                        |                        |                        |              |                       |
| 001         | (1)Hall1                |                          |             |              |                        | (2)Hall2               |                        |              |                       |
| 002         | Room                    |                          |             |              |                        | (3)Room1               |                        | (4)Room2     |                       |
| 003         | Stage                   |                          |             |              | (5)Stage1              | (6)Stage2              |                        |              |                       |
| 004         | Plate                   |                          |             |              | (7)Plate1              | (8)Plate2              |                        |              |                       |
| 005         | Delay L,C,R             |                          |             |              | (26)Delay<br>L,C,R     |                        |                        |              |                       |
| 006         | (27)Delay L,R           |                          |             |              |                        |                        |                        |              |                       |
| 007         | (28)Echo                |                          |             |              |                        |                        |                        |              |                       |
| 008         | (29)Cross<br>Delay      |                          |             |              |                        |                        |                        |              |                       |
| 009         | (9)Early<br>Reflection1 | (10)Early<br>Reflection2 |             |              |                        |                        |                        |              |                       |
| 010         | (11)Gate<br>Reverb      |                          |             |              |                        |                        |                        |              |                       |
| 011         | (12)Reverse<br>Gate     |                          |             |              |                        |                        |                        |              |                       |
| 012...019   | No Effect               |                          |             |              |                        |                        |                        |              |                       |
| 020         | (30)Karaoke             |                          |             |              |                        |                        |                        |              |                       |
| 021...064   | No Effect               |                          |             |              |                        |                        |                        |              |                       |
| 065         | Chorus                  |                          | (14)Chorus2 |              |                        |                        |                        |              |                       |
| 066         | Celeste                 |                          |             |              |                        | (13)Chorus1            |                        |              |                       |
| 067         | Flanger                 |                          |             | (15)Flanger1 |                        | (16)Flanger2           |                        |              |                       |
| 068         | Symphonic               |                          |             |              | (17)Sym-<br>phonic     |                        |                        |              |                       |
| 069         | Rotary<br>Speaker       |                          |             |              | (19)Rotary<br>Speaker1 |                        |                        |              |                       |
| 070         | Tremolo                 |                          |             |              | (21)Tremolo1           |                        |                        |              |                       |
| 071         | Auto Pan                |                          |             |              | (24)Auto Pan           |                        | (20)Rotary<br>Speaker2 | (22)Tremolo2 | (23)Guitar<br>Tremolo |
| 072         | (18)Phaser              |                          |             |              |                        |                        |                        |              |                       |
| 073         | Distortion              |                          |             |              |                        |                        |                        |              |                       |
| 074         | (33)Overdrive           |                          |             |              |                        |                        |                        |              |                       |
| 075         | (34)Amp Sim-<br>ulation |                          |             |              | (31)Distortion<br>Hard | (32)Distortion<br>Soft |                        |              |                       |
| 076         | (36)3Band EQ            |                          |             |              |                        | (35)EQ Tele-<br>phone  |                        |              |                       |
| 077         | (37)2Band EQ            |                          |             |              |                        |                        |                        |              |                       |
| 078         | Auto Wah                |                          |             |              | (25)Auto Wah           |                        |                        |              |                       |
| 079...127   | No Effect               |                          |             |              |                        |                        |                        |              |                       |

# Specifications

## Keyboards

- 61 standard-size keys (C1–C6), with Touch Response and Light Guide

## Display

- Large multi-function LCD display (backlit)

## Setup

- STANDBY/ON
- MASTER VOLUME : MIN - MAX

## Panel Controls

- OVERALL (L, R), SONG, VOICE, STYLE, PORTABLE GRAND, METRONOME, ABC/DoReMi, [0]–[9], [+] (YES), [–] (NO), DEMO, TOUCH, HARMONY, Dict., L, R, TEMPO/TAP

## Voice

- 610 voices (including 480 Expanded voices)
- Polyphony : 32

## Auto Accompaniment

- 106 styles
- Accompaniment Control : ACMP ON/OFF, SYNC STOP, SYNC START, START/STOP, INTRO/ENDING, MAIN A/B (AUTO FILL)
- Fingering : Multi fingering
- Accompaniment Volume

## Yamaha Educational Suite

- Dictionary
- Lesson 1–3

## One Touch Setting

- Voice (for each style or song)

## Overall controls

- Octave
- Transpose
- Tuning
- Accompaniment Volume
- Song Volume
- Metronome Volume
- MIDI
- Light
- ABC/DoReMi
- Reverb
- DSP
- Harmony
- Grade
- Talking

## Effects

- Reverb : 8 types
- DSP : 37 types
- Harmony : 26 types

## Song

- 100 Songs + 5 User Songs + max. 99 Flash Songs (Up to 488 KB)
- Song Clear, Track Clear

## Recording

- Song
  - User Song : 5 Songs
  - Real Time Recording
  - Recording Tracks : 1, 2, 3, 4, 5, CHORD
- Flash Memory
  - Flash Song : max. 99 Songs
  - Memory size: 488 KB

## MIDI

- Initial Send
- Local Control
- Bulk Dump

## Auxiliary jacks

- PHONES/OUTPUT, DC IN 10-12V, MIDI IN/OUT, SUSTAIN

## Amplifier

- 6 W + 6 W (When using PA-5C power adaptor)
- 4 W + 4 W (When using batteries)

## Speakers

- 12 cm x 2 + 3 cm x 2

## Power Supply

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

## Power Consumption

- 20 W (when using PA-5C power adaptor)

## Dimensions (W x D x H)

- 933 x 370 x 129 mm

## Weight

- 6.2 kg

## Supplied Accessories

- Music Stand
- Owner’s Manual
- Song Book

## Optional Accessories

- Headphones : HPE-150
- AC power adaptor : PA-5C
- Footswitch : FC4, FC5
- Keyboard stand : L-2L, L-2C

\* 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.

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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 during the first 90 days that immediately follows the purchase date, your new Yamaha product covered by this warranty is found to have a defect in material and/or workmanship, Yamaha and/or its authorized representative will repair such defect without charge for parts or labor.

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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.
2. Deliver the unit to be serviced under warranty to: the retailer selling the product, an authorized service center, or to Yamaha with an explanation of the problem. Please be prepared to provide proof purchase date (sales receipt, credit card copy, etc.) when requesting service and/or parts under warranty.
3. Shipping and/or insurance costs are the consumers responsibility.\* Units shipped for service should be packed securely.

\*Repaired units will be returned PREPAID if warranty service is required within the first 90 days.

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

4. Your owners manual contains important safety and operating instructions. It is your responsibility to be aware of the contents of this manual and to follow all safety precautions.

### EXCLUSIONS

This warranty does not apply to units whose trade name, trademark, and/or ID numbers have been altered, defaced, exchanged removed, or to failures and/or damages that may occur as a result of:

1. Neglect, abuse, abnormal strain, modification or exposure to extremes in temperature or humidity.
2. Improper repair or maintenance by any person who is not a service representative of a retail outlet authorized by Yamaha to sell the product, an authorized service center, or an authorized service representative of Yamaha.
3. This warranty is applicable only to units sold by retailers authorized by Yamaha to sell these products in the U.S.A., the District of Columbia, and Puerto Rico. This warranty is not applicable in other possessions or territories of the U.S.A. or in any other country.

Please record the model and serial number of the product you have purchased in the spaces provided below.

Model \_\_\_\_\_ Serial # \_\_\_\_\_ Sales Slip  
# \_\_\_\_\_

Purchased from \_\_\_\_\_

Date \_\_\_\_\_

(Retailer)

**YAMAHA CORPORATION OF AMERICA**  
**Electronic Service Division**  
**6600 Orangethorpe Avenue**  
**Buena Park, CA 90620**

**KEEP THIS DOCUMENT FOR YOUR RECORDS. DO NOT MAIL!**



For details of products, please contact your nearest Yamaha or the authorized distributor listed below.

Pour plus de détails sur les produits, veuillez-vous adresser à Yamaha ou au distributeur le plus proche de vous figurant dans la liste suivante.

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