YAMAHA

DIGITAL KEYBOARD

PSR-E323

YPT-320

Owner's Manual

How to use this manual
Before using the PSR-E323/YPT-320, be sure to read the "PRECAUTIONS" section on pages 4–5.
Follow the instructions described in "Setting Up," then try out the simple operations in "Quick Guide."
"Reference" provides detailed descriptions and procedures for getting the most out of the instrument.
After you've read the manual, keep it safe and handy for future reference.

Data List
The Data List contains MIDI related information. The Data List is available for downloading from the
Yamaha Manual Library at: http://www.yamaha.co.jp/manual/

GENERAL MIDI   XG XGlite   STYLE FILE   STEREO SAMPLED PIANO   YES YAMAHA EDUCATION SUITE 5   TOUCH RESPONSE

EN

SPECIAL MESSAGE SECTION

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

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

SPECIFICATIONS SUBJECT TO CHANGE:

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

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

NOTICE:

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

ENVIRONMENTAL ISSUES:

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

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

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

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

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

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

NAME PLATE LOCATION:

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

Model _____

Serial No. _____

Purchase Date _____

PLEASE KEEP THIS MANUAL

92-BP (bottom)

FCC INFORMATION (U.S.A.)

PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

* Please keep this manual in a safe place for future reference.

⚠ WARNING

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

Power supply/AC power adaptor

- Only use the voltage specified as correct for the instrument. The required voltage is printed on the name plate of the instrument.
- Use the specified adaptor (PA-130 or an equivalent recommended by Yamaha) only. Using the wrong adaptor can result in damage to the instrument or overheating.
- Check the electric plug periodically and remove any dirt or dust which may have accumulated on it.
- Do not place the AC adaptor cord near heat sources such as heaters or radiators, and do not excessively bend or otherwise damage the cord, place heavy objects on it, or place it in a position where anyone could walk on, trip over, or roll anything over it.

Do not open

- Do not open the instrument or attempt to disassemble the internal parts or modify them in any way. The instrument contains no user-serviceable parts. If it should appear to be malfunctioning, discontinue use immediately and have it inspected by qualified Yamaha service personnel.

Water warning

- Do not expose the instrument to rain, use it near water or in damp or wet conditions, or place containers on it containing liquids which might spill into any openings. If any liquid such as water seeps into the instrument, turn off the power immediately and unplug the power cord from the AC outlet. Then have the instrument inspected by qualified Yamaha service personnel.
- Never insert or remove an electric plug with wet hands.

Fire warning

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

If you notice any abnormality

- If the AC adaptor cord or plug becomes frayed or damaged, or if there is a sudden loss of sound during use of the instrument, or if any unusual smells or smoke should appear to be caused by it, immediately turn off the power switch, disconnect the adaptor plug from the outlet, and have the instrument inspected by qualified Yamaha service personnel.

⚠ 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:

Power supply/AC power adaptor

- When removing the electric plug from the instrument or an outlet, always hold the plug itself and not the cord.
- Unplug the AC power adaptor when not using the instrument, or during electrical storms.
- Do not connect the instrument to an electrical outlet using a multiple-connector. Doing so can result in lower sound quality, or possibly cause overheating in the outlet.

Battery

- Always make sure all batteries are inserted in conformity with the +/- polarity markings. Failure to do so might result in overheating, fire, or battery fluid leakage.
- Always replace all batteries at the same time. Do not use new batteries together with old ones. Also, do not mix battery types, such as alkaline batteries with manganese batteries, or batteries from different makers, or different types of batteries from the same maker, since this can cause overheating, fire, or battery fluid leakage.
- Do not dispose of batteries in fire.
- Do not attempt to recharge batteries that are not intended to be charged.
- When the batteries run out, or if the instrument is not to be used for a long time, remove the batteries from the instrument to prevent possible leakage of the battery fluid.
- Keep batteries away from children.
- If the batteries do leak, avoid contact with the leaked fluid. If the battery fluid should come in contact with your eyes, mouth, or skin, wash immediately with water and consult a doctor. Battery fluid is corrosive and may possibly cause loss of sight or chemical burns.

Location

- Do not expose the instrument to excessive dust or vibrations, or extreme cold or heat (such as in direct sunlight, near a heater, or in a car during the day) to prevent the possibility of panel disfiguration or damage to the internal components.
- Do not use the instrument in the vicinity of a TV, radio, stereo equipment, mobile phone, or other electric devices. Otherwise, the instrument, TV, or radio may generate noise.
- Do not place the instrument in an unstable position where it might accidentally fall over.
- Before moving the instrument, remove all connected adaptor and other cables.
- When setting up the product, make sure that the AC outlet you are using is easily accessible. If some trouble or malfunction occurs, immediately turn off the power switch and disconnect the plug from the outlet. Even when the power switch is turned off, electricity is still flowing to the product at the minimum level. When you are not using the product for a long time, make sure to unplug the power cord from the wall AC outlet.
- Use only the stand specified for the instrument. When attaching the stand or rack, use the provided screws only. Failure to do so could cause damage to the internal components or result in the instrument falling over.

Connections

- Before connecting the instrument to other electronic components, turn off the power for all components. Before turning the power on or off for all components, set all volume levels to minimum. Also, be sure to set the volumes of all components at their minimum levels and gradually raise the volume controls while playing the instrument to set the desired listening level.

Maintenance

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

(4)-13 1/2

Handling caution

- Do not insert a finger or hand in any gaps on the instrument.
- Never insert or drop paper, metallic, or other objects into the gaps on the panel or keyboard. If this happens, turn off the power immediately and unplug the power cord from the AC outlet. Then have the instrument inspected by qualified Yamaha service personnel.
- Do not place vinyl, plastic or rubber objects on the instrument, since this might discolor the panel or keyboard.
- Do not rest your weight on, or place heavy objects on the instrument, and do not use excessive force on the buttons, switches or connectors.

- Do not use the instrument/device or headphones for a long period of time at a high or uncomfortable volume level, since this can cause permanent hearing loss. If you experience any hearing loss or ringing in the ears, consult a physician.

Saving data

Saving and backing up your data

- Some data items (page 41) are automatically saved as backup data in the internal memory even if you turn the power off.

  Saved data may be lost due to malfunction or incorrect operation. Save important data to external device such as a computer.

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

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

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

Make sure to discard used batteries according to local regulations.

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

Formats and functions

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

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

Style File: The Style File Format combines all of Yamaha's auto accompaniment know-how into a single unified format.

Stereo Sampled Piano: The instrument has a special Portable Grand Piano Voice—created by state-of-the-art stereo sampling technology and using Yamaha's sophisticated AWM (Advanced Wave memory) tone generation system.

Yamaha Education Suite 5: The instrument 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!

Touch Response: The exceptionally natural Touch Response feature, with a convenient front panel on/off switch, gives you maximum expressive level control over the voices.

Supplied Accessories

The PSR-E323/YPT-320 package includes the following items. Please check that you have them all.

- **Music rest**
- **Owner's manual (this book)**

- **My Yamaha Product User Registration**
  * The PRODUCT ID on the sheet will be needed when you fill out the User Registration form.

What You Can Do With the PSR-E323/YPT-320

Playing

Changing Voices ▶ pages 12, 13

The instrument Voice that sounds when you play the keyboard can be changed to violin, flute, harp, or any of an extensive range of voices. You can also restore the piano settings with a simple press of a button.

Adding Reverb to the sound ▶ page 43

The reverb effects add a warm ambience to the sound, simulating the complex reflections of actual performance spaces, such as a concert hall or small club.

Play along with the Styles ▶ page 18

You can select from 100 different styles (auto accompaniment) for playing along on the keyboard—giving you the equivalent of a full backing band, covering a wide variety of styles from waltzes to 8-beat to euro-trance ... and much more.

Play Using the Music Database ▶ page 36

Simply selecting your favorite style such as rock or jazz from the Music Database calls up the appropriate Voice and Styles that matches the selected style.

Practicing

Practicing and mastering Songs ▶ pages 28, 31, 35

You can practice the preset Songs using these lesson functions: "Keys to Success" (page 28), "Listening, Timing, Waiting" (page 31) and "Phrase Repeat" (page 35). Keys to Success helps familiarize you with playing a specific Song, while Listening, Timing, Waiting helps you to learn how to play correct notes with the correct timing. Finally, Phrase Repeat lets you repeatedly practice a specified phrase in the Song. Keys to Success is ideal for customers using the keyboard instrument for the first time.

Listening

Listening to the Songs ▶ page 16

The instrument contains a wide variety of 102 preset songs.

Recording

Recording your performance ▶ page 37

You can record up to five of your own performances as User Songs.

Contents

Setting Up

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

Power Requirements

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

■ Using an AC Power Adaptor

❶ Make sure that the power of the instrument is off (the backlit display is off).

⚠ **WARNING**

• *Use the specified adaptor (PA-130, or an equivalent recommended by Yamaha) only. The use of other adaptors may result in irreparable damage to both the adaptor and the instrument.*

❷ Connect the AC power adaptor to the power supply jack.

❸ Plug the AC adaptor into an AC outlet.

⚠ **CAUTION**

• *Unplug the AC Power Adaptor when not using the instrument, or during electrical storms.*
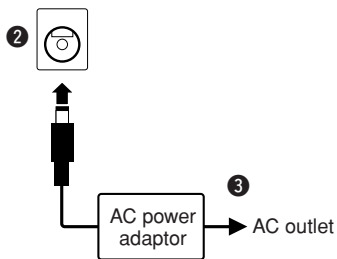
■ Using Batteries

❶ Open the battery compartment cover located on the instrument's bottom panel.

❷ Insert the six new alkaline batteries, being careful to follow the polarity markings on the side of the compartment.

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

⚠ **CAUTION**

• *Never connect or disconnect the AC power adaptor when the batteries are installed in the instrument and the power is on. Doing so will turn the power off, possibly resulting in loss of the data being transferred and the data currently in the transfer destination during transferring or recording a data.*
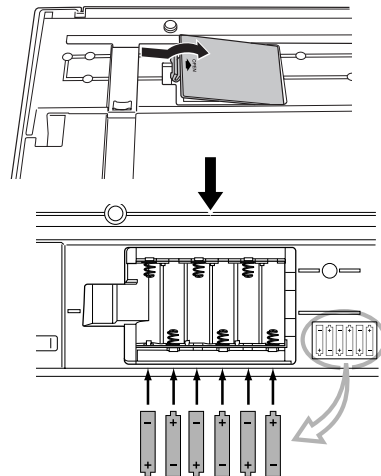
For battery operation the instrument requires six 1.5V "AA" size, LR6 or equivalent batteries. (Alkaline batteries are recommended.) When battery power becomes too low for proper operation, the volume may be reduced, the sound may be distorted, and other problems may occur. When this happens, make sure to replace all batteries, following the precautions listed below.
If necessary, also make sure to save all important User data (see page 62), since custom panel settings are lost when the batteries are removed.

⚠ **CAUTION**

• *Use alkaline batteries for this instrument. Other types of batteries (including rechargeable batteries) may have sudden drops of power when battery power becomes low, possibly resulting in loss of data in the flash memory.*

• *Make sure to install the batteries with the proper orientation, maintaining the correct polarity (as shown). Incorrect battery installation may result in heat, fire and/or leaking of corrosive chemicals.*

• *When the batteries run down, replace them with a complete set of six new batteries. NEVER mix old and new batteries. Do not use different kinds of batteries (e.g. alkaline and manganese) at the same time.*

• *If the instrument is not to be in use for a long time, remove the batteries from it, in order to prevent possible fluid leakage from the battery.*

• *Please use the power adaptor when transferring data to flash memory. Batteries (including rechargeable types) can be drained rapidly by this type of operation. If the batteries do become drained during a data transfer, both the data being transferred and the data currently in the transfer destination will be lost.*

Make all necessary connections BEFORE turning the power on.

Audio Connections — Headphones and External Equipment

You can connect the PHONES/OUTPUT jack to a set of headphones, keyboard amplifier, stereo system, mixer, tape recorder, or other line-level audio device to send the instrument's output signal to that device.

The internal speakers are automatically shut off when a plug is inserted into this jack. The PHONES/OUT-PUT jack also functions as an external output.

⚠ CAUTION

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

⚠ CAUTION

• *To prevent damage to the speakers, set the volume of the external devices at the minimum setting and turn power off the devices before connecting them. Failure to observe these precautions may result in electric shock or equipment damage. Also, be sure to set the volumes of all devices at their minimum levels and gradually raise the volume controls while playing the instrument to set the desired listening level.*

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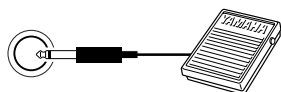
The sustain function lets you produce a natural sustain as you play by pressing an optional footswitch. Plug the Yamaha FC4 or FC5 footswitch into the SUSTAIN jack and use it to switch sustain on and off.

📝 NOTE

• *Make sure that the footswitch plug is properly connected to the SUSTAIN jack before turning on the power.*
• *Do not press the footswitch while turning the power on. Doing this changes the recognized polarity of the footswitch, resulting in reversed footswitch operation.*

Turn on the power

Turn down the volume by turning the [MASTER VOLUME] control to the left and press the [STANDBY/ON] switch to turn on the power. While playing the keyboard, adjust the volume level by using the [MASTER VOLUME] control. Pressing the [STANDBY/ON] switch again turns the power off.
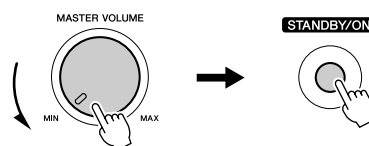
⚠ CAUTION

• *When using a power adaptor, even when the power is off, a small amount of electricity is still being consumed by the instrument. When you are not using the instrument for a long time, make sure to unplug the AC power adaptor from the wall AC outlet, and/or remove the batteries from the instrument.*

Using the music rest
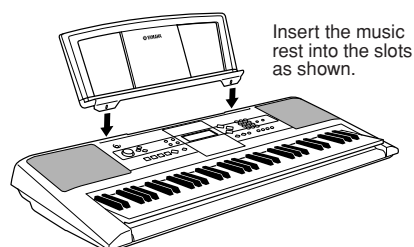
Insert the music rest into the slots as shown.

Removing the protective film

Remove the transparent protective film that was applied to the display prior to shipment from the factory.

Panel Controls and Terminals

■ Front Panel

❶ **[STANDBY/ON] switch** ....page 9
❷ **[MASTER VOLUME] control** ....pages 9
❸ **[1 LISTENING 2 TIMING 3 WAITING] button** .... pages 32
❹ **[KEYS TO SUCCESS] button**...........................pages 28
❺ **[PHRASE REPEAT] button** ....pages 35

When the lesson mode

❻ PART
   [L] button ....page 32
   [R] button...page 32

When the recording mode

❻ **[REC TRACK 2] button**..................................page 39
   [REC TRACK 1] button......................................page 39

❼ **[METRONOME] button**................................page 14, 48
❽ **[TEMPO/TAP] button**.............................page 22, 52, 53
❾ **[SONG] button**..pages 16
❿ **[VOICE] button** ....pages 12
⓫ **[STYLE] button**...pages 19
⓬ **Number buttons [0]–[9], [+/YES], [-/NO]** ....page 26
⓭ **[FUNCTION] button**...pages 56
⓮ **[DEMO] button**..page 17

When the Song mode

⓯ **[A-B REPEAT] button**..page 51
⓰ **[REW] button** ....page 17
⓱ **[FF] button** ....page 17
⓲ **[PAUSE] button**...page 17

When the Style mode

⓯ **[ACMP ON/OFF] button** ....page 20
⓰ **[INTRO/ENDING/rit.] button**..............................page 23
⓱ **[MAIN/AUTO FILL] button**.................................page 23
⓲ **[SYNC START] button**.................................page 19, 53

⓳ **[START/STOP] button** ....page 17
⓴ **[REC] button**..page 37
㉑ **[PORTABLE GRAND] button** ....page 13
㉒ **[MUSIC DATABASE] button**.............................page 36
㉓ **[REVERB] button** ....page 43
㉔ **[SPLIT] button** ....page 46
㉕ **[DUAL] button**...page 45
㉖ **[HARMONY] button**...page 42
㉗ **[TOUCH] button**..page 44
㉘ **Drum Kit**..page 15

■ Rear Panel

㉙ **MIDI IN/OUT terminals** ....page 58
㉚ **SUSTAIN jack**...page 9
㉛ **PHONES/OUTPUT jack** ....page 9
㉜ **DC IN 12V jack**..page 8

■ Front Panel

Display (page 27)   Song List (page 72)

Voice List (page 64)   Music Database List (page 71)

Style List (page 70)

SONG
001~ TOP PICKS
004~ LEARN TO PLAY
020~ FAVORITE
051~ FAVORITE WITH STYLE
071~ INSTRUMENT MASTER
080~ PIANO REPERTOIRE
103~ USER SONG
108~ FLASH MEMORY

VOICE
001~ PIANO
007~ E. PIANO
013~ ORGAN
025~ ACCORDION
029~ GUITAR
039~ BASS
047~ STRINGS
059~ CHOIR

063~ SAXOPHONE
072~ TRUMPET
078~ BRASS
084~ FLUTE
089~ SYNTH
101~ PERCUSSION
109~ DRUM KITS
122~ 482 XGlite
000 OTS

STYLE
001~ 8 BEAT
011~ 16 BEAT
017~ BALLAD
024~ DANCE
036~ DISCO
040~ SWING&
         JAZZ
048~ R&B
055~ COUNTRY

059~ LATIN
067~ BALLROOM
078~ TRAD&
         WORLD
088~ WALTZ
093~ CHILDREN
098~ PIANIST
107 FLASH
         MEMORY

MUSIC DATABASE
001~ POP
011~ ROCK
019~ DANCE
028~ BALLAD
039~ R&B
047~ SWING&JAZZ
057~ EASY LISTENING
072~ LATIN
081~ COUNTRY
086~ BALLROOM
091~100 TRADITIONAL

VOICE 001 GrandPno

MEASURE 001

SONG

VOICE
SONG MELODY
VOICE

STYLE

FUNCTION   DEMO   PC

NO —   + YES

RESET

PORTABLE GRAND   MUSIC DATABASE   REVERB   REVERB TYPE

SPLIT   DUAL   HARMONY   TOUCH
SPLIT VOICE   DUAL VOICE   HARMONY TYPE   TOUCH SENSE   PRESS AND HOLD FOR A WHILE.

METRONOME   TEMPO/TAP

TIME SIGNATURE

LESSON   PART
         L   R
REC
TRACK   2   1

START/STOP   REC   CLEAR

WAITING

IN 12V   PHONES/OUTPUT   SUSTAIN   FOOT   MIDI   IN

■ **Rear Panel**

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Changing the Voices

This instrument features a variety of realistic, built-in voices. The grand piano Voice is automatically selected whenever the power is turned on, but you can easily change this guitar, drum, or any of an extensive range of voices.

Grand Piano Voice

VOICE
001 ~ PIANO
007 ~ E. PIANO
013 ~ ORGAN
025 ~ ACCORDION
029 ~ GUITAR
039 ~ BASS
047 ~ STRINGS
059 ~ CHOIR
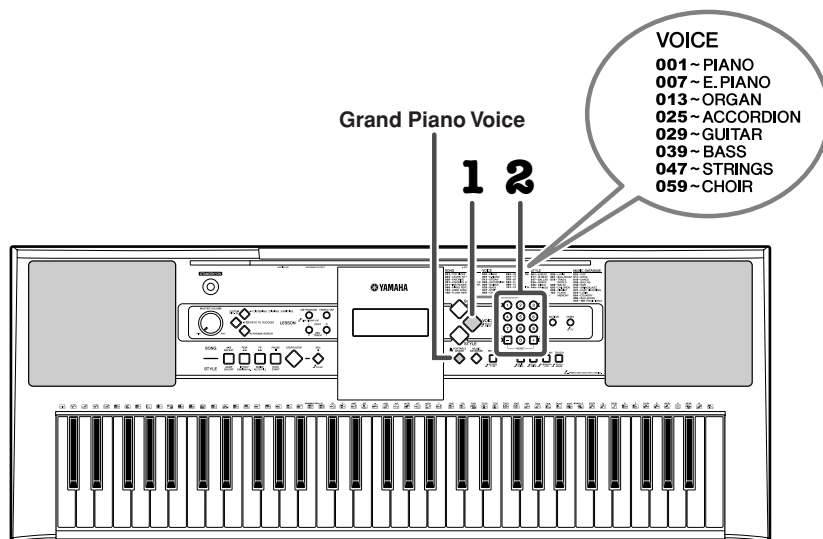
Try playing a variety of instrument Voices

1 Press the [VOICE] button.

The Voice number and name are displayed.

Voice number   Voice name
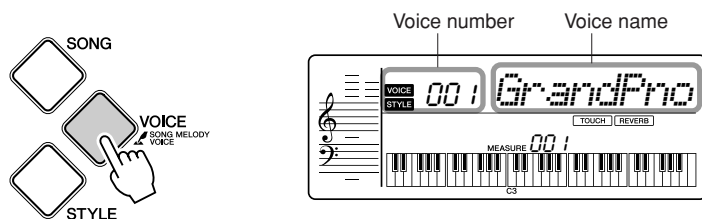
2 Select a Voice.

Select the desired Voice by using the number buttons [0]–[9], [+], [-].

Refer to the Voice List on page 64.

084 $\boxed{Flute}$
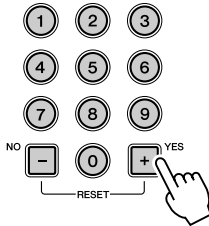
The Voice shown here becomes the Main Voice for the instrument.

3 Play the keyboard.
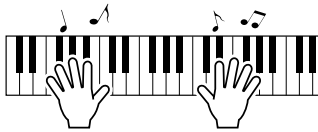
Try selecting and playing different Voices.

Playing the Grand Piano Voice

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

Press the [PORTABLE GRAND] button.

The Voice "Grand Piano" will automatically be selected as the Main Voice.

PORTABLE GRAND

Quick Guide

Metronome **Percussion and drum icons**
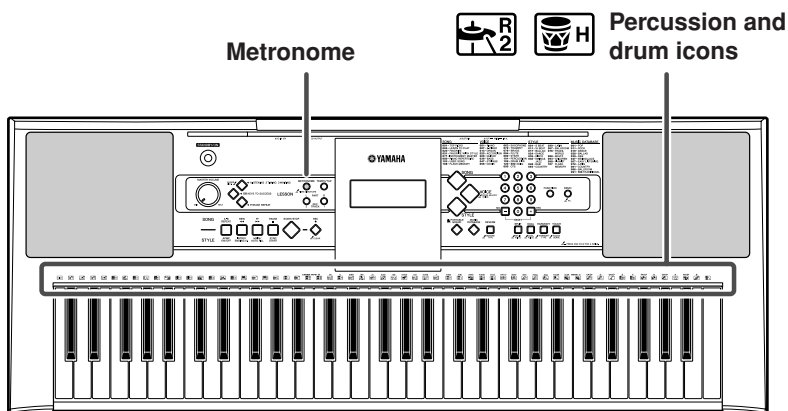
Using the Metronome

The instrument features a built-in metronome (a device that keeps an accurate tempo) that is convenient for practicing.

Press the [METRONOME] button to start the metronome. To stop the metronome, press the [METRONOME] button again.

If you want to adjust the metronome tempo, press the [TEMPO/TAP] button to call up the Tempo setting in the display, then press the [+] button to raise the tempo, or press the [-] button to lower it. You can also set the tempo using the number buttons on the front panel.

📝 **NOTE**

• *You can set the time signature (page 48).*

Current Tempo value

070 Tempo

Quick Guide
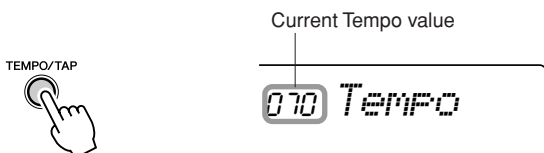
Playing the Drum Kit Voice

When Voice number 109 (Drum Kit) is selected in step 2 on page 13, you can play different percussion sounds directly from the keyboard.

To check which percussion sounds are assigned to each key when you select Voice number 109, look at the icons printed above the keys. You can select and play the desired Drum Kit from 12 preset Drum Kits (Voice number 109–121). Details on the instruments and key assignments of each Drum Kit can be found in the Drum Kit List on page 68.

Quick Guide
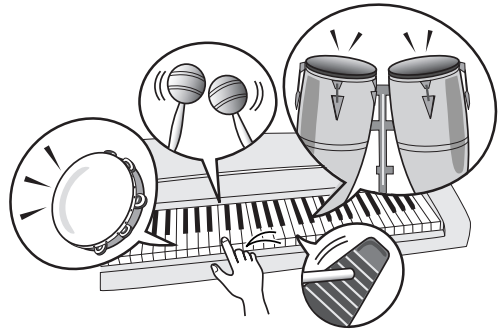
Playing Songs

This instrument has 102 built-in Songs. For this instrument, the term "Song" refers to the data that makes up a piece of music.
Listening to a Song.
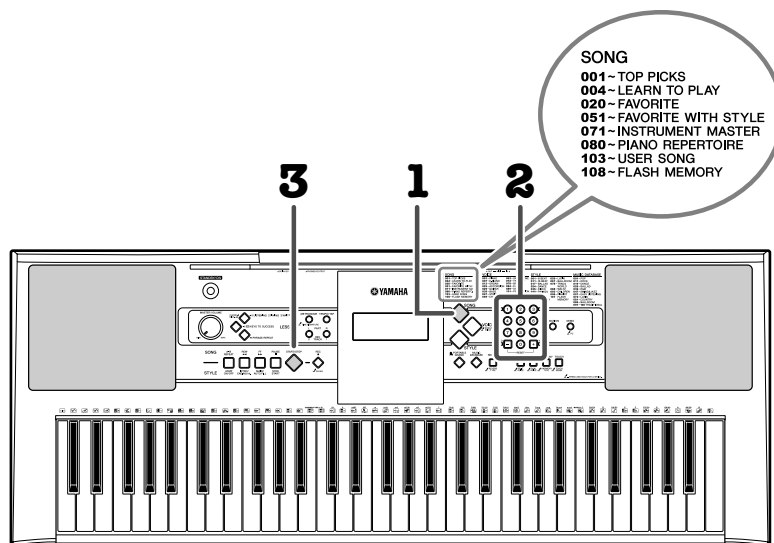
Select and Listen to a Specific Song

1 Press the [SONG] button.

The Song number and name are displayed.
Song number "004" is automatically selected whenever the power is turned ON.

Song number   Song name

NOTE
- When you want to select the Song number 001–003, use the number buttons [0]–[9], [+], [-].
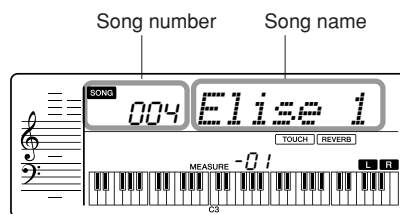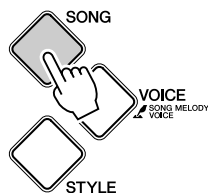
The songs are organized by category. For details, see page 72.

2 Select a Song.

Select the desired song by using the number buttons [0]–[9], [+], [-].
Refer to the Song List on page 72.
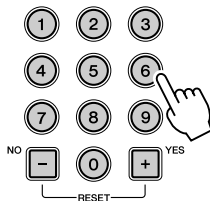
NOTE
- *You can play Songs recorded from the instrument or transferred from a computer. The procedure for playing these Songs is the same as that of the built-in Songs.*

3 Press the [START/STOP] button.

The Song will begin playing.
You can stop playback at any time by pressing the [START/STOP] button.

NOTE
- *Songs can be played at any tempo you desire—fast or slow (page 22).*

START/STOP

● **Rewind/Fast-forward/Pause**

SONG   A-B REPEAT   REW ◀◀   FF ▶▶   PAUSE ❚❚   START/STO
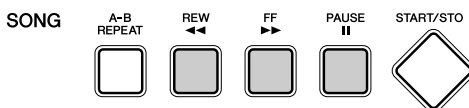
[REW] button .... Fast-reverses the Song if pressed during playback (no sound is heard during fast reverse). Decreases the measure number if pressed while playback is stopped.

[FF] button .... Fast-forwards the Song if pressed during playback. Increases the measure number if pressed while playback is stopped.

[PAUSE] button .... Temporarily stops playback. Press this button a second time to resume playback from the point at which it was stopped.

● **Using the [DEMO] button**

Press the [DEMO] button to play Songs 001, 002, 003, in sequence, and playback will continue repeatedly starting again from the first Song 001.
You can stop playback at any time by pressing the [DEMO] button.

DEMO

Quick Guide

Play with a Style

Styles are rhythm/accompaniment patterns and are played by the auto accompaniment feature. You can select from a wide variety of rhythmic types—rock, blues, Euro trance, and many, many more. Here we'll learn how to select and play Styles using chords. While you play, you can automatically add specially created intros and endings, as well as variations in the rhythm/chord patterns, for more dynamic, professional-sounding performances.

STYLE
001~ 8 BEAT
011~ 16 BEAT
017~ BALLAD
024~ DANCE
036~ DISCO
040~ SWING & JAZZ
048~ R&B
055~ COUNTRY

Split Point

Play a melody with your right hand.

Auto Accompaniment range
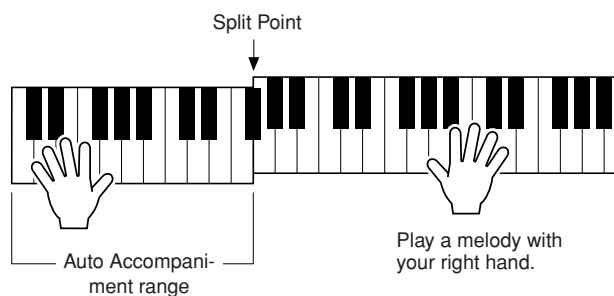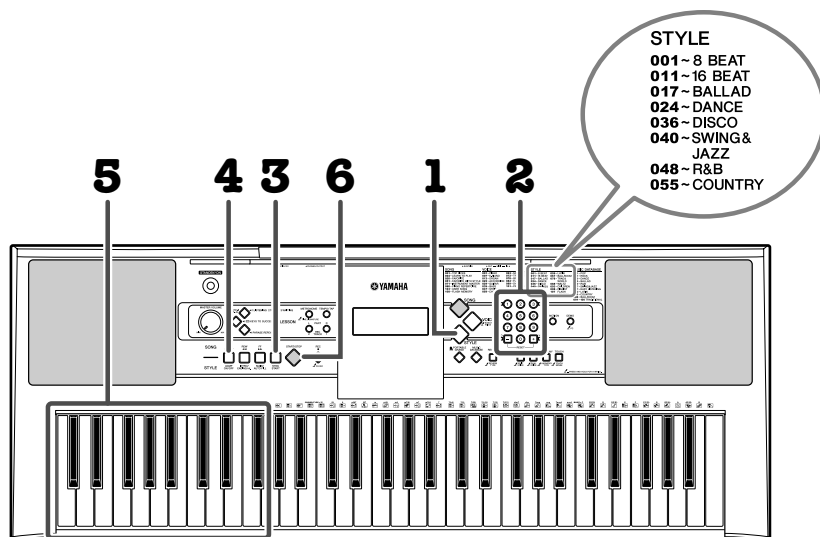
Try playing chords with your left hand.

Before Performance

Select the "String Ensemble" Voice as the melody Voice, referring to step 2 on page 12.

Play along with the styles

1 Press the [STYLE] button.

The Style number and name are displayed.
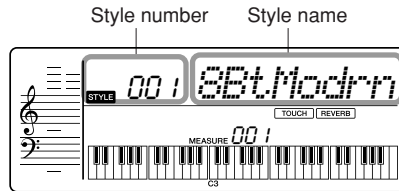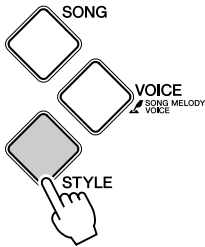
Style number   Style name

001 8BtModrn

STYLE   TOUCH   REVERB

MEASURE 001

C3

SONG

VOICE
SONG MELODY
VOICE

STYLE

2 Select a Style.

Select the desired Style by using the number buttons [0]–[9], [+], [-].
Refer to the Style List on page 70.
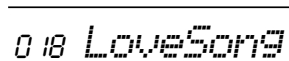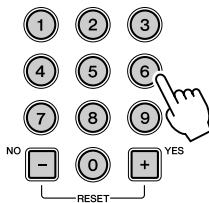
1 2 3
4 5 6
7 8 9
NO − 0 + YES
RESET

018 LoveSong

3 Turn SYNC START on.

Press the [SYNC START] button.

STYLE   ACMP
ON/OFF   INTRO/
ENDING/rit.   MAIN/
AUTO FILL   SYNC
START

8va

018 LoveSong

STYLE   REVERB

MEASURE 001
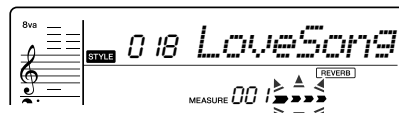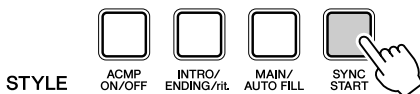
Flashes when Sync Start is on.

Quick Guide

4 Turn auto accompaniment on.

Press the [ACMP ON/OFF] button.
Press the [ACMP ON/OFF] button again to turn the auto accompaniment off.
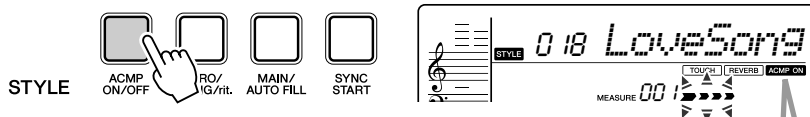
STYLE   ACMP ON/OFF   RO/ !G/rit.   MAIN/ AUTO FILL   SYNC START

018 LoveSong

MEASURE 001

ACMP ON   Appears when auto accompaniment is on

● **When auto accompaniment is on ...**
The keys to the left of the Split Point (54; F♯2) will play only chords.
This is known as the "Auto Accompaniment range."

Split Point (page 47)

Auto Accompaniment range

5 Start playing along on the keyboard.

Style playback will begin as soon as you play a chord in the accompaniment range of the keyboard. In this case, try out the Song "Aura Lee" on the next page for practice purpose. For information on how to enter chords, see page 24.

Split Point

Auto Accompaniment range
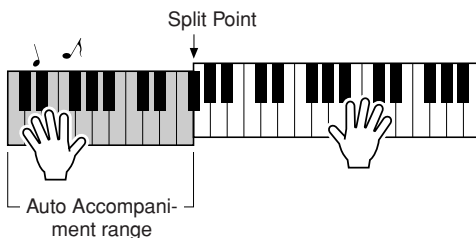
6 Stop playing.

Playback will stop as soon as you press the [START/STOP] button.

START/STOP

Quick Guide

Practice

— Aura Lee —

Recommended Style: 018 Love Song
Recommended Voice: 047 String Ensemble

Composer: G. Poulton

Changing the tempo of the Style

Styles can be played at any tempo you desire—fast or slow.

1
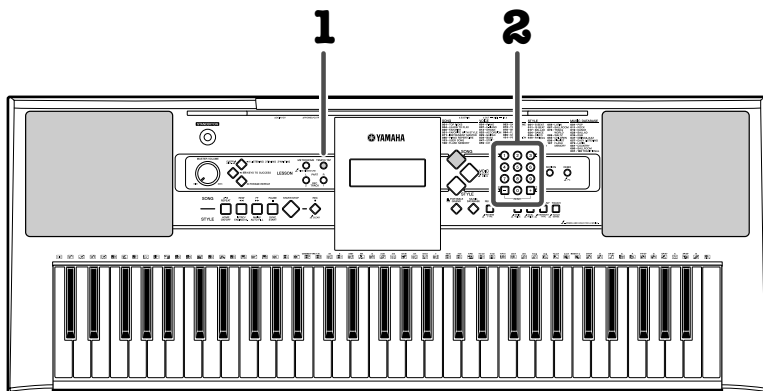
1 Press the [TEMPO/TAP] button to call up the Tempo setting in the display after selecting a Style.

Current Tempo value

TEMPO/TAP

070 Tempo
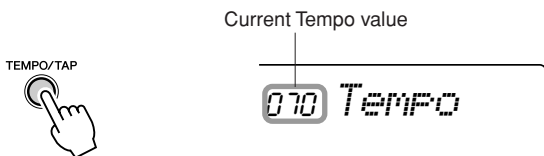
2 Set the Tempo by using the number buttons [0]–[9], [+], [-].
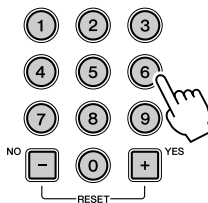
📝 NOTE

• Press the [+] and [-] buttons simultaneously to instantly reset the value to the default tempo of a Style.

NO   YES
RESET

Quick Guide

Pattern Variation (Sections)

The instrument features a wide variety of Style "sections" (patterns) that allow you to vary the arrangement of the accompaniment to match the Song you are playing.

Intro
This is the begin-
ning of the Song.

Main
This is the main part of the Song.

Ending
This is the end of
the Song.

Fill in
This is the transition between main patterns.
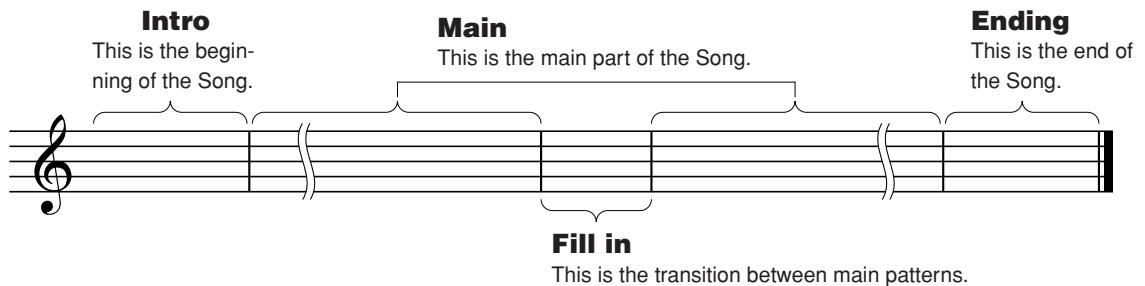
Adding an **Intro**

Pressing the [INTRO/END-ING/rit.] button before playing back the Style automatically adds a short introduction before starting the actual (Main) rhythm.
When the intro finishes play-ing, Style playback shifts to the main section.

Switching **Main** Patterns

There are two variations on the basic pattern (A and B). These are alternately selected each time the [MAIN/AUTO FILL] button is pressed.
The main accompaniment pattern plays, and repeats indefi-nitely until another section's button is pressed.

Adding a **Fill-in**

A Fill-in pattern is automatically added before changing to section A or B.

STYLE ACMP ON/OFF INTRO/ ENDING/rit. MAIN/ AUTO FILL SYNC START

Adding an **Ending**

Press the [INTRO/ENDING/rit.] button to begin playing an ending section. Play-back will stop when the ending has played all the way through.

If you press the [INTRO/ENDING/rit.] button a second time (while the ending is playing) the ending will play ritardando (the tempo will gradually get slower).

Quick Guide

Playing chords along with score of the Song

Below is an example of a melody score with chord indications.

Chord

G

A

Play the melody on the staff with your right hand, and chords with your left hand. Find the appropriate chords on the next page and play them as illustrated.

Chords

Melody
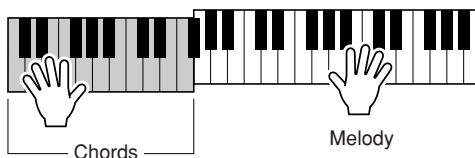
● **Chord names**

From the chord name, you can tell at a glance what type of chord it is and which notes make up the chord. Understanding the basic structure of chords is very useful—once you're familiar with this, you'll be quickly and easily play chords by looking at the names that appear above the notation.

Cm

Major 3rd   Minor 3rd

⇒

Cm

Root note   Chord type
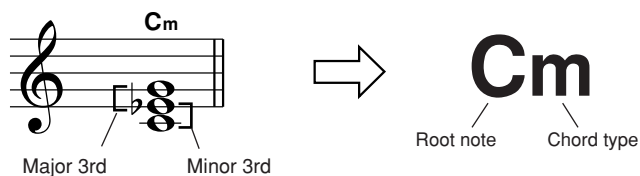
Taking the chord above as an example, the lowest note of this triad is called the "root note." This is the central note sound, and it supports or anchors the rest of the notes chord. Upper case letters (including sharps or flats) at the left of the chord name shows root note. The chord name is determined by a root note and chord type like as major or minor, and so on.

Quick Guide

Chords

For users who are new to chords, this chart features common chords. Since there are many useful chords and many different ways to use them musically, refer to commercially available chord books for further details.

★ indicates the root note.

Major	Minor	Seventh	Minor Seventh	Major Seventh
C	Cm	C7	Cm7	CM7
D	Dm	D7	Dm7	DM7
E	Em	E7	Em7	EM7
F	Fm	F7	Fm7	FM7
G	Gm	G7	Gm7	GM7
A	Am	A7	Am7	AM7
B	Bm	B7	Bm7	BM7

- Inversions can be used as well as in "root" position—with the following exceptions: m7, m7♭5, 6, m6, sus4, aug, dim7, 7♭5, 6(9), sus2
- Inversion of the 7sus4 and m7(11) chords are not recognized if the notes are omitted.
- sus2 chords are indicated by the root name only.

● Easy Chords

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

For root "C"

C

Cm

C7

Cm7

- **To play a major chord**
Press the root note (★) of the chord.

- **To play a minor chord**
Press the root note together with the nearest black key to the left of it.

- **To play a seventh chord**
Press the root note together with the nearest white key to the left of it.

- **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).

Quick Guide

Basic Operation and Displays

Basic Operation

Press a button to select a basic function: Voice, Song or Style.

3 Start a function.

Display
(page 27)

1 Select a basic function.

2 Select an item or value.
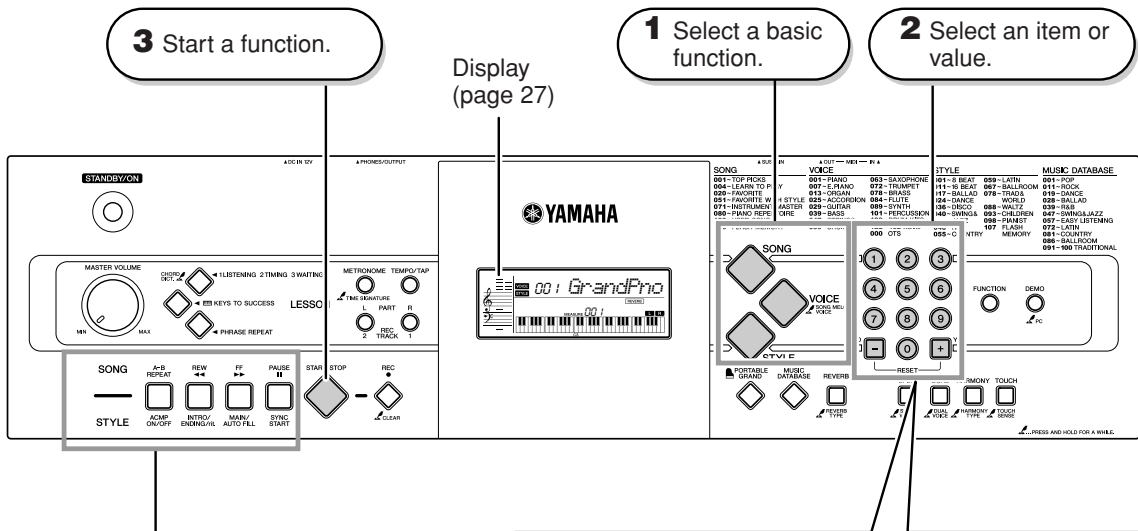
Press the [SONG] button to access the SONG functions (printed above the buttons), and press the [STYLE] button to access the STYLE functions (printed below).

● **Number buttons [0]–[9]**

The number buttons can be used to directly enter a Song, Style or Voice number or parameter value.
For numbers that start with one or two zeroes, the first zeroes can be omitted.

Example:
Selecting Voice 002, Bright Piano.

Press number buttons [0], [0], [2].
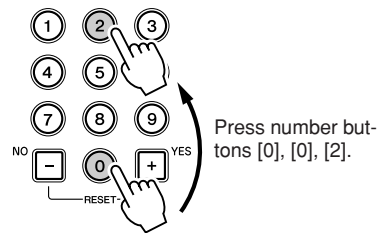
● **[+], [-] buttons**

Press the [+] button briefly to increase the value by 1, or press the [-] button briefly to decrease the value by 1. Press and hold either button to continuously increase or decrease the value in the corresponding direction.

Press briefly to decrease.

Press briefly to increase.
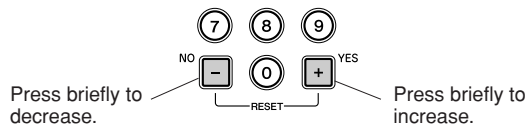
● **The "Press & Hold" Symbol**

Buttons having this indication can be used to call up an alternate function when the relevant button is pressed and held.
Hold down this button until the function calls up.
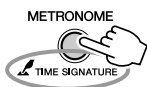
Display

The Main display shows all of the current basic settings for Song, Style and Voice. It also includes a range of indicators that show the on/off status for various functions.

KEYS TO SUCCESS
Appears when the Keys to Success function is on (page 28).

PHRASE REPEAT
Appears when the Phrase Repeat function is on (page 35).

Passing Status
Song ☆
   ☆   ☆
   ☆☆
   ☆☆☆
The number of stars depends on the number of passed steps.
Step ☆

SONG/VOICE/STYLE
Indicate the operating condition of the instrument.

SONG
VOICE
STYLE

TOUCH RESPONSE
Appears when Touch Response is on (page 44).

TOUCH

REVERB
Appears when Reverb is on (page 43).

REVERB

ACMP ON
Appears when the auto accompaniment is on.

ACMP ON

SPLIT
Appears when the Split function is on (page 46).

SPLIT

DUAL
Appears when the Dual function is on (page 45).

DUAL

HARMONY
Appears when the Harmony function is on (page 42).

HARMONY
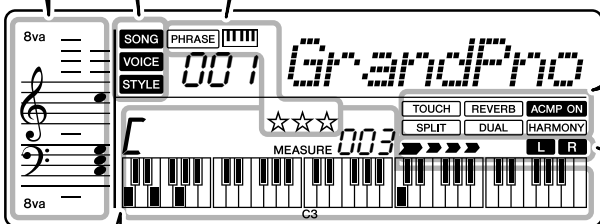
Notation
Displays the melody and chord notes of a Song when the Song lesson function is in use, or the notes of chords you specify when the Dictionary function is in use. At other times the notes you play on the keyboard are displayed.

NOTE
- Any notes occurring below or above the staff are indicated by "8va" in the notation.
- For a few specific chords, not all notes may be shown in the notation section of the display. This is due to space limitations in the display.

Chord Display
Indicates the name of the chord currently being played back, or the name of the chord being played on the keyboard.
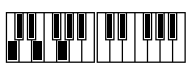
Measure
Indicates the current measure during playback of a Song.

MEASURE *003*

Keyboard Display
Indicates notes currently being played. Indicates the melody and chord notes of a Song when the Song lesson function is in use. Also indicates the notes of a chord—either when playing a chord or when using the Dictionary function.

Song/recording track display
Information related to the Song/recording tracks is shown here. (See pages 37 and 51.)

L R

R **Lit:** Track contains data
R **Unlit:** Track is muted or contains no data
R **Flashing:** Track is selected as recording track

Beat Display
Indicates the beat of the current Style or Song with flashing arrows.

Reference

Song Lesson

You can practice the preset Songs using these lesson functions: "Keys to Success," "Listening, Timing, Waiting" and "Phrase Repeat." Keys to Success helps you master a Song, whereas Listening, Timing, Waiting helps you first master the timing then playing the correct notes. Phrase Repeat lets you select and repeatedly practice a specific phrase in the Song. If you're using a keyboard instrument for the first time, we suggest you start with Keys to Success.

Keys to Success

In the "Keys to Success" mode, you can practice individual phrases in the Song (as "Steps"), letting you effectively master the Song by mastering each phrase separately. Each time you finish a specific Step, your score is shown in the display. Passing one Step (with a score of 60 or better) lets you go on to next one automatically. All preset Songs other than 001–003 can be used with this mode, especially the "LEARN TO PLAY" category Songs (004–019).

1 Select a song for your lesson.

For this example we'll select song "006 Twinkle Twinkle Little Star(Basic)" from the "LEARN TO PLAY" category. For instructions on how to select a Song, see page 16.

NOTE
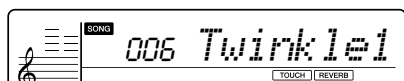
• Song numbers 001 to 003 cannot be used for the Lesson feature. If you select these songs, "NoLesson" is shown in the display.

2 Turn Keys to Success on.

Pressing the [KEYS TO SUCCESS] button turns the Keys to Success feature on, and a Step of the Song is automatically selected for your practice. The currently selected Step number and the lesson parts are shown in the display.

NOTE
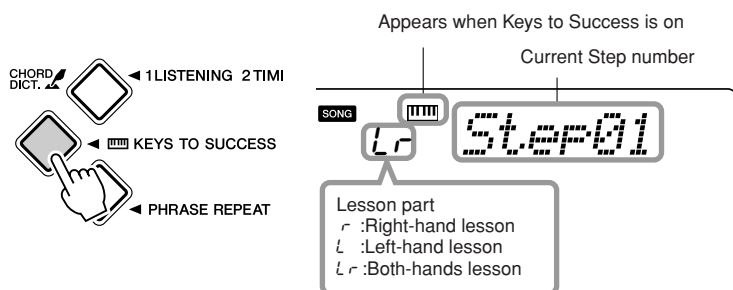
• The total number of steps varies depending on the Song.

NOTE

• Each lesson part varies depending on the Steps.

Appears when Keys to Success is on

Current Step number

Lesson part
ᒥ :Right-hand lesson
ᒪ :Left-hand lesson
ᒪᒥ :Both-hands lesson

You can refer to the music score in the Song Book (free downloadable scores). To obtain the Song Book, complete the user registration at the following website:
http://music.yamaha.com/registration/

3 Start the Lesson.

Press the [START/STOP] button to start Lesson. After the lead-in, Step 01 of the song starts automatically, and the appropriate notes appear in the display.

START/STOP
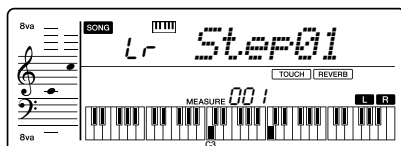
You can start playing along on the keyboard as soon as the lead-in finishes. The score marker and keyboard marker in the display will indicate the notes to play.

Each time you have practiced all the way through a Step, your performance will be evaluated and your score (from 0–100) is shown in the display.

☆
Displayed when you've passed the Step.
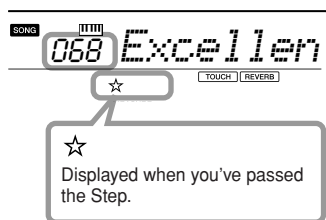
Score of 0–59	Try the same Step again. The same Step begins automatically.
Score of 60–100	You passed! The next Step begins automatically.

You can select another Step as desired by using the [+]/[-] buttons.

All songs have a finishing step, and in that step, you will practice all the way thorough the song which you have selected as a lesson Song in the step 1. When you pass all Steps, the Keys to Success mode will automatically be turned off and playback stops.
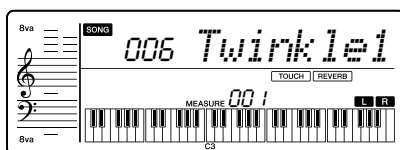
4 Stop Lesson.

You can stop the Lesson at any time by pressing the [KEYS TO SUCCESS] button.

NOTE

• In some Steps, the lead-in may run a little slower than normal because a ritardando or fermata section is placed before the Step.

NOTE

• You can practice the specified phrase using the Lesson modes "1 Listening," "2 Timing" or "3 Waiting" described on page 31. In these Lesson modes with the Keys to Success function, however, it is not possible to pass the Step. When you want to turn off these Lesson modes, press the [1 LISTENING 2 TIMING 3 WAITING] button a number of times to select off ("Step number" will appear in the display).

NOTE

• If the specified part is both hands, you cannot pass the Step until you play both hands, even if you play one of the hands well. Only a message such as "L-part is Nice" appears in the display.

NOTE

• When you want to select another Song during a lesson, press the [SONG] button to call up the currently selected Song name in the display (for three seconds), then select the Song as required using the [+]/[-] buttons or number buttons while the Song name appears. When you select the new Song, the lowest number Step not yet passed of the Song will automatically be selected for the Lesson.

Reference

Entering and Clearing the Passing Status

● **Entering**

Passing status will automatically be entered and shown in the display when the Step or Song is selected. You can recognize at a glance whether or not you've passed the selected Step or Song.

When Step is selected

☆: Passed
No information: Not yet passed

When Song is selected
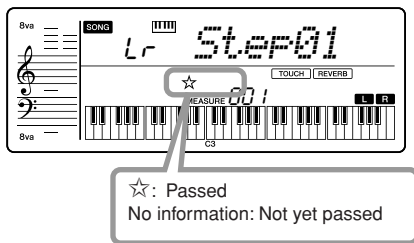
☆ : There are one or more Steps not yet passed in addition to the last Step
☆ ☆: Only last Step passed
☆ ☆ : All Steps passed other than last Step
☆☆☆: All Steps passed
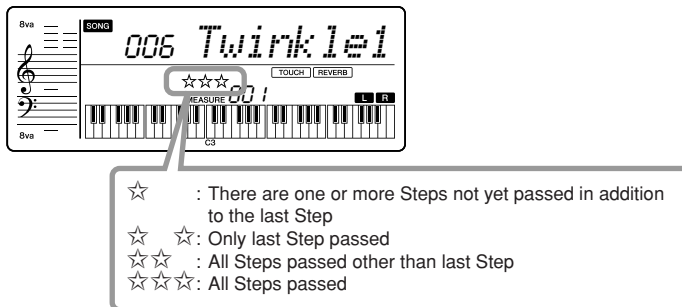
● **Clearing**

You can clear existing passing status entries. Select the desired Song or Step for clearing the passing status and hold the [KEYS TO SUCCESS] button for longer than three seconds. After the passing status has been cleared, a "Cleared" message will appear on the display. Once the operation has been completed, no information will appear even when selecting the Song or Step.

◄ ▥ KEYS TO SUCCESS

Hold for longer than three seconds
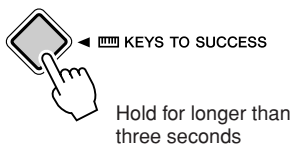
Cleared

📝 NOTE

• You cannot clear any entries during the Song or Step playback. If a Song or Step is currently being played back, stop playback first.

📝 NOTE

• Deleting the Song recording will delete all Step passing status entries as well.

Reference

Listening Timing Waiting

You can select any Song you like and use it for a left-hand, right-hand, or both-hands lesson. Song Lesson lets you learn how to play Songs in three easy steps. Songs that can be used with the Lesson feature include Songs transferred from a computer to flash memory (SMF Format 0 only; see page 60). The procedure for transferring songs are described on page 61.

The lesson modes:
1 Listening .... Listen and learn the melody or rhythm of a selected Song.
2 Timing .... Learn to play the notes at the correct timing along with the Song.
3 Waiting .... Learn to play the correct notes.

1 Select the desired Song for your lesson.

For instructions on how to select a Song, see page 16. If you want to practice a Song you've transferred from a computer, select one of the Songs beginning from Song number 108.

> **NOTE**
> • User Songs cannot be used for the lesson.
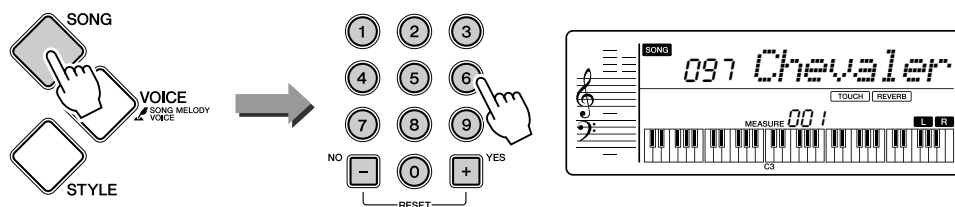
The instrument includes 102 built in Songs. Some Songs (as shown below) are intended for use as right-hand lessons, and cannot be used for left-hand or both-hands lessons.

● **Songs for right-hand lesson**
Song numbers: 020–050, 071–076, 079

Reference

2 Select the part you want to practice.

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

Left-hand lesson
Left

Right-hand lesson
Right

L   PART   R

REC
TRACK
2

L   PART   R

REC
TRACK
2   1

Both-hands lesson
BothHand
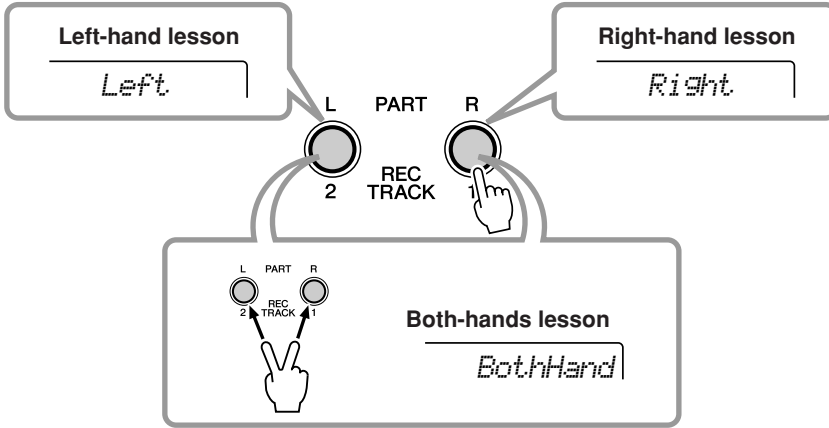
A "No LPart" message is shown in the display if you select the left part in one of the Songs intended for right-hand lesson, which do not have left part data. These Songs cannot be used for left-hand or both-hands lessons.

No LPart

> **NOTE**
> • For songs transferred from a computer, the "No LPart" indication does not appear, even when there is no left hand part in the song.

3 Select the lesson mode.

Each time the [1 LISTENING 2 TIMING 3 WAITING] button is pressed the lesson modes are selected in sequence: 1 Listening → 2 Timing → 3 Waiting → Off → 1 Listening ...etc. The currently selected lesson mode is shown in the display.
For this example select "1 Listening".

> **NOTE**
> • When the melody Voice of the Song is changed, the key position shown in the display may be shifted (in octave units), depending on the Voice selected.

CHORD
DICT.   ◄ 1 LISTENING 2 TIMING 3 WAITING

◄ ... S TO SUCCESS

◄ PHRASE REPEAT

r1 LISTEN   **1 Listening**

↓

r2 TIMING   **2 Timing**

↓

r3 WAITING   **3 Waiting**

↓

097 Chevaler   **Off**

Reference
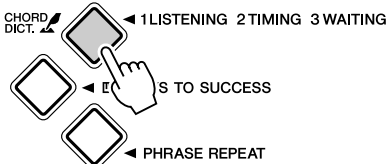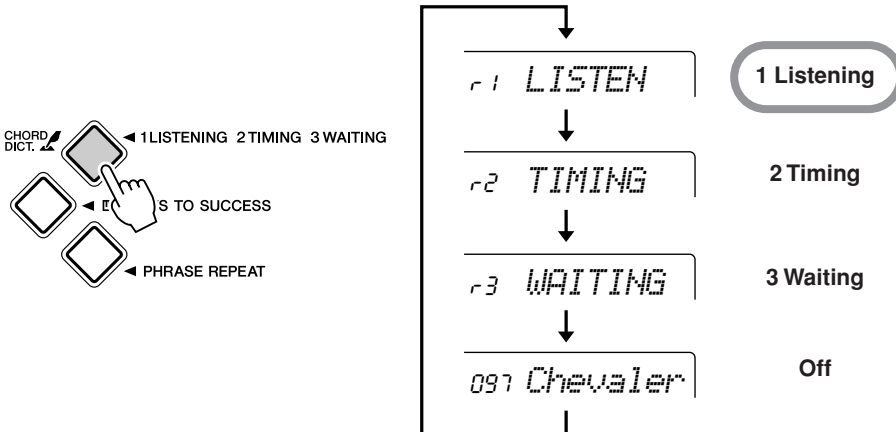
4 Start Lesson.

Song playback will begin automatically when you select Lesson mode, and the appropriate notes appear in the display.

> **NOTE**
>
> • You cannot use Dual or Split Voices during lessons.
>
> • The Split Point is fixed and it cannot be changed. For the left-hand lesson, it is fixed at 59 or B2; for the left-hand chord lesson, it is fixed at 54 or F#2.

1 Listening

There's no need to play the keyboard in this mode. The model melody/chords (in other words, the musical material you should learn) of the part you selected will sound. Listen to it carefully and learn it well.
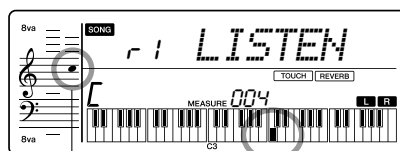
The notation and key positions of the model melody are shown in the display.

Lesson "2 Timing" will begin as soon as you press the [1 LISTENING 2 TIMING 3 WAITING] button.

2 Timing

In this mode, try playing the notes with the correct timing. Simply concentrate on playing each note in time with the rhythmic accompaniment. The correct notes sound even if you play wrong notes as long as you play in time with the rhythm. Play the notes shown in the display.
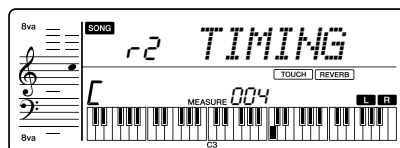
Lesson "3 Waiting" will begin as soon as you press the [1 LISTENING 2 TIMING 3 WAITING] button.

3 Waiting

In this mode, try playing the correct notes. The notes you should play appear in the score and the keyboard on the display. The Song pauses until you play the right note.

Reference
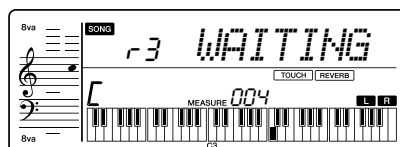
You can select Lesson modes by pressing the [1 LISTENING 2 TIM-ING 3 WAITING] button respectively.

5 Stop the Lesson mode.

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

START/STOP

Grade

When the lesson Song has played all the way through in Lesson mode 2 Timing or 3 Waiting, your performance will be evaluated in four levels: OK, Good, Very Good, or Excellent.

```
OK
Good
Very Good!
Excellent!
```

Reference

Phrase Repeat

This function allows you to repeatedly practice difficult phrases, by selecting a phrase and repeatedly play it back. You can also mute one of the parts, and practice just the other part repeatedly. The specified phrase can also be practiced along with the Lesson modes "1 Listening," "2 Timing" or "3 Waiting" described on page 31.

Phrase mark

Repeat playback of this section

NOTE

- When you want to turn the Phrase Repeat function on, please make sure that the Keys to Success mode is off, since Phrase Repeat is not available in the Keys to Success mode.

- When you want to change the Song, first turn off the Phrase Repeat function then select the Song.

Play the Song and press the [PHRASE REPEAT] button at the phrase you want to repeat. The appropriate phrase number will appear in the display and, after a lead-in, repeat playback will start. Use the [+] or [-] buttons to select any phrase number in the Song, and stop repeat playback by pressing the [PHRASE REPEAT] button. The Phrase Repeat mode will be canceled and normal playback of the Song will continue.

Appears when the Phrase Repeat function is on

Phrase number

NOTE

- If you use Phrase Repeat function with the Lesson modes "1 Listening," "2 Timing" or "3 Waiting", the evaluation function of these lesson modes are not available. When you want to turn these lesson modes off, press the [1 LISTENING 2 TIMING 3 WAITING] button a number of times to select off ("Phrase number" will appear in the display).

Changing the playback section

You can specify an extended section for repeating (including multiple phrases) by specifying a beginning phrase (point A) and ending phrase (point B), using the [A-B REPEAT] button. You can do this either during playback or while playback is stopped.

Press the [A-B REPEAT] button at the beginning phrase of the section you want to repeat (point A), use the [+]/[-] buttons to select the subsequent phrases you wish to include in the repeat, then press the [A-B REPEAT] button a second time. This specifies the last phrase selected as the end phrase (point B) for Phrase Repeat playback. "REPEAT" will appear on the display and the specified A-B section of the Song will now play repeatedly. (If playback is stopped, press the [START/STOP] button to start.)

Stop A-B Repeat playback by pressing the [PHRASE REPEAT] button. "REPEAT" will appear on the display and the currently selected phrase will playback repeatedly.

NOTE

- Specifying only Point A results in repeat playback between Point A and the end of the Song.

Play Using the Music Database

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

1 Press the [MUSIC DATABASE] button.

A Music Database name will appear in the display.

2 Select a Music Database.

Referring to the Music Database category list printed on the panel, select a music database that matches the image of the song you intend to play. For example, select one from the "SWING&JAZZ" category (047–056) if you want to play jazz.
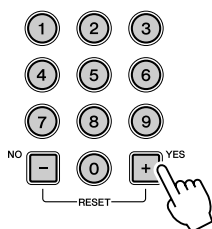
MUSIC DATABASE
001 ~ POP
011 ~ ROCK
019 ~ DANCE
028 ~ BALLAD
039 ~ R&B
047 ~ SWING&JAZZ
057 ~ EASY LISTENING
072 ~ LATIN
081 ~ COUNTRY
086 ~ BALLROOM
091 ~ 100 TRADITIONAL

3 Play the chords with your left hand and melody with your right.

The jazz style will start playing when you play a left-hand chord to the left of the split point (page 47). Refer to page 25 for information about playing chords.

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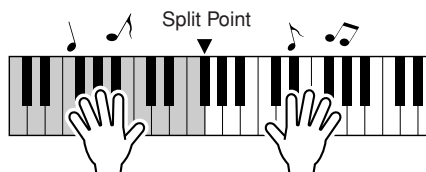
Press the [START/STOP] button to stop playback.

Reference

Record your own performance

You can record up to five of your own performances as User Songs (User 1–5: Song numbers 103–107). Think of each User Song as a kind of basket or drawer for storing your recording. Remember that you can also record a Style (containing chord changes) along with your own performance.

1 Press the [REC] button.
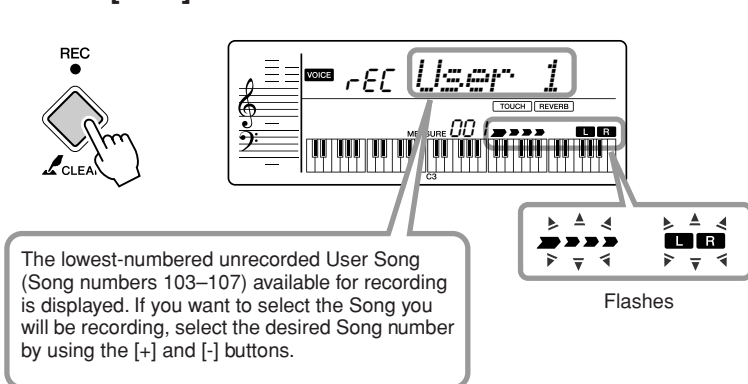
The lowest-numbered unrecorded User Song (Song numbers 103–107) available for recording is displayed. If you want to select the Song you will be recording, select the desired Song number by using the [+] and [-] buttons.

Flashes

After you've selected the desired User Song for recording, you can select a Style to be recorded as well. To do this, press the [STYLE] button and select the Style number while the ACMP indication is on.

You can turn off the Record mode by pressing the [REC] button again (⬛ and 🄡 stop flashing).

2 Start recording.

When you play the keyboard, recording will begin.
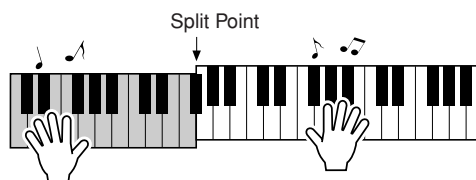
Split Point

By playing keys to the left of the Split Point when the Auto Accompaniment is set to on, the Style starts sounding and is recorded with your performance.
When Auto Accompaniment is set to off, only your keyboard performance is recorded.

⚠ **CAUTION**
• **If all User Songs (Song numbers 103–107) contain recorded data, Song 103 will automatically be selected. In this case, you will record over and erase any previous data in Song 103, so be careful that you won't be erasing any material you want to keep!**

Reference

3 Stop recording.

Pressing the [START/STOP] button stops recording and writes the data to the User Song. (A "Writing!" message is shown.)

To playback the newly recorded performance, press the [START/STOP] button.

● **In order to record with the Style, turn the Auto Accompaniment to on (see Step 4 on page 20), and then record according to the instructions.**

    `ACMP ON` (The "ACMP ON" lights.)

● **In order to record only your performance, turn the Auto Accompaniment to off and record according to the normal steps.**

    `ACMP ON` (The "ACMP ON" is unlit.)

⚠ CAUTION

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

NOTE

• *Use the Musicsoft Downloader to backup the User Songs to a computer (page 60).*

Recording to a specified track

The User Songs are organized into two tracks: Track 1 and Track 2. You can specify the track you want to record to.

About track recording

If you start recording by specifying a track, the track will be overwritten (existing data in the track is deleted and replaced with the new recording).

User Song

Data that can be recorded to Track 2		Data that can be recorded to Track 1
Style playback* (including chord changes) or your own keyboard performance	+	Your own keyboard performance only

* When playing the Style

L   PART   R

REC TRACK

2   1   Recording to the specified track

Only your keyboard performance can be recorded to Track 1. Either a Style or your performance can be recorded to Track 2, resulting in a User Song like that depicted below.

User Song		
Track 2		**Track 1**
Style	+	Your own keyboard performance

User Song		
Track 2		**Track 1**
Your own keyboard performance	+	Your own keyboard performance

NOTE

• *Record following the steps in the previous page, and your performance will be recorded to Track 1 and the Style (if you are playing one) will be recorded to Track 2.*

NOTE

• *You cannot record the Reverb Level, metronome click, or the Transpose and Tuning settings.*

• *The settings and buttons below cannot be changed, or if changed, the new settings cannot be recorded if entered during the recording process.*

    ACMP ON/OFF, split point, reverb type, chorus type, harmony type, [FUNCTION] button, [PORTABLE GRAND] button.

Reference

Specifying track recording

1 Turn ACMP (auto accompaniment) on or off, depending on what you want to record.

If you want to record Style playback, turn ACMP on. If you want to record only your own keyboard performance, turn ACMP off.

2 Specify the track you want to record.

Specify the track 2 when you want to record the Style.
When you want to record your own keyboard performance, you can specify either track.

● **Recording to Track 1**

While holding the [REC] button, press the [REC TRACK 1] button.
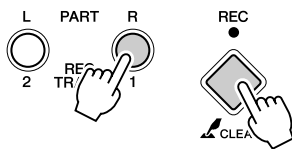
Press simultaneously
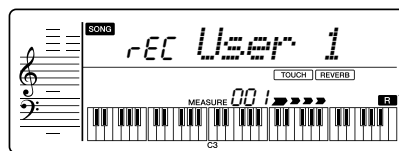
Flashes when track 1 is selected for recording.

● **Recording to Track 2**

While holding the [REC] button, press the [REC TRACK 2] button.
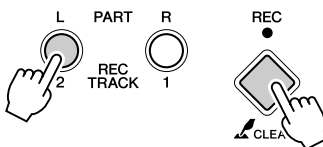
Press simultaneously
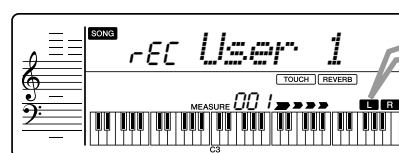
Flashes when track 2 is selected for recording.

Lights when recorded data exists.
Turns off when there is no recorded data, or when Mute is set to on (page 51) to turn off playback of the track.

3 Press the [+], [-] buttons to select the User Song you want to record.

rEC User 3

If you want to record Style playback to Track 2, press the [STYLE] button and select the desired Style.

4 Start recording

Perform steps *2* and *3* on pages 37–38.
By playing keys to the left of the Split Point when the Auto Accompaniment is set to on, the Style starts sounding and is recorded. Only your performance is recorded by playing the keyboard (any key is OK) when the Auto Accompaniment is set to off.

> **NOTE**
> • Keep in mind that both Tracks 1 and 2 will be overwritten with new data if you record without specifying the tracks.
> • The both "L" and "R" flashes, this indicates that you have specified Track 1 when the Auto Accompaniment is on. If you want to record your own performance, press the [TRACK 2] button to stop the "L" flashing. If you want to record a Style, press the [REC] button to cancel the recording, and repeat the procedure from the beginning.

> **NOTE**
> • If you want to record only the rhythm (percussion) part, press the [START/STOP] button to play just the rhythm, then add the section change by pressing the [INTO/END-ING/rit.] button or [MAIN/AUTO FILL] button.
> • You can record a new track while listening to a previously recorded track (the track indication will appear). You can also mute recorded tracks (the track will disappear) while recording a new track by pressing the desired track button.

Reference

PSR-E323/YPT-320 Owner's Manual **39**

Deleting User Songs

Deleting an entire User Song.

> **NOTE**
>
> • You cannot delete a specific track from a User Song.

1 Press the [SONG] button and select the User Song you want to delete by using the number buttons [0]–[9], [+], [-].

```
103 User 1
```

2 Press and hold the [REC] button for longer than a second.

The Song Delete display appears.

Hold for longer than a second.

```
yes ClrUser1
```

You can cancel the delete operation by pressing the [-/NO] button.

3 Press the [+/YES] button.

A confirmation message will appear on the display.
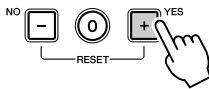
```
yes Sure?
```

You can cancel the delete operation by pressing the [-/NO] button.

4 Press the [+/YES] button to delete the Song.

"Writing!" message will appear while the track is being deleted.

```
Writing!
```

Reference
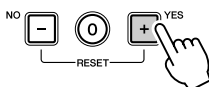
Initialization

Initialization

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

Turn the power on by pressing the [STANDBY/ON] switch while holding the highest white key on the keyboard. The backed up data will be erased and the default values restored.

Initialization does not delete the files transferred from the computer. If you want to delete the files, see "Deleting Files" below.

● **Parameters that are saved in backup:**
• User Songs
• Style number 107
• Touch Response on/off setting
• Passing status of Song and Step
• The following Function settings: Tuning, Split Point, Touch Sensitivity, Style Volume, Song Volume, Metronome Volume, Demo Cancel, Panel Sustain

Although the above parameters are always backed up, and are maintained even when the power is turned off, they will be completely erased by the initialization. You can save the settings as backup data to your computer, by using the Musicsoft Downloader (MSD) software. Refer to the section "Transferring a backup file from the PSR-E323/YPT-320 to a computer" on page 62.

Deleting Files

To clear Song data and Style data that has been transferred to the internal flash memory from a computer, simultaneously hold down the highest white key and the three highest black keys on the keyboard and turn the power on by pressing the [STANDBY/ON] switch.

⚠ **CAUTION**
• **When you execute the Initialization, backup parameters will be cleared.**

⚠ **CAUTION**
• **When you delete the files, Song data and Style data you have purchased and downloaded will also be cleared. Make sure to save your important data by transferring to a computer using Musicsoft Downloader (page 62).**

Reference

Voice Settings

Adding Harmony

This feature adds harmony notes as well as tremolo or echo effects to the Main Voice.

1 Press the [HARMONY] button to turn harmony on.

When you don't want to add harmony notes, press the [HARMONY] button again to turn Harmony off.

SPLIT   DUAL   HARMONY   TOUCH

SPLIT VOICE   DUAL VOICE   HARMONY TYPE   TOUCH SENSE

ndPno

TOUCH   REVERB

HARMONY
L R

(HARMONY) Appears when harmony is on.
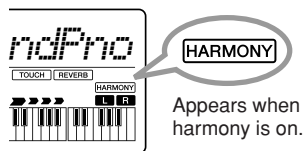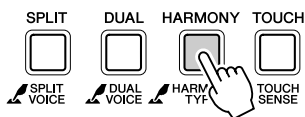
> **NOTE**
>
> • When you press the [HARMONY] button to turn this feature on, the appropriate Harmony type for the currently selected Main Voice is automatically selected.

2 Press and hold the [HARMONY] button for longer than a second.

"HarmType" appears in the display for a few seconds, followed by the Harmony Type.

Currently selected Harmony type

02 *Trio*
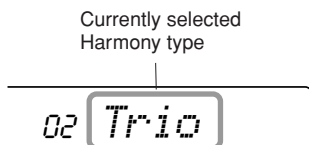
> **NOTE**
>
> • You can also access the Harmony Type setting display by pressing the [FUNCTION] button several times.
>
> • Harmony will be turned off if the Chord Dictionary function is used.

3 Select a desired Harmony Type by using the number buttons [0]–[9], [+], [-].

Refer to the Harmony Type list on page 73. Try playing the keyboard with the harmony function. The effect and operation of each Harmony Type is different—refer to the section "How to sound each Harmony Type" below as well as the Harmony Type List for details.

● **How to sound each Harmony Type**

• **Harmony type 01–05**

Press the right-hand keys while playing chords in the auto accompaniment range of the keyboard when the Auto Accompaniment is on (page 20).

• **Harmony type 06–12 (Trill)**
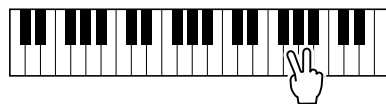
Hold down two keys.

• **Harmony type 13–19 (Tremolo)**
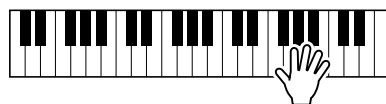
Keep holding down the keys.

• **Harmony type 20–26 (Echo)**
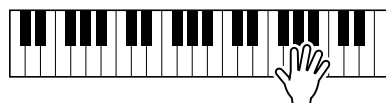
Keep holding down the keys.

You can adjust the Harmony Volume in the Function Settings (page 56).

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

Reference

Adding Reverb

Reverb adds the ambience of a room or concert hall to the sound that you play on the keyboard.

To add Reverb

Press the [REVERB] button to turn Reverb on. Reverb is normally on. You can check how the selected Reverb Type sounds by playing the keyboard. To turn Reverb off, press the [REVERB] button again.

Appears when Reverb is on.
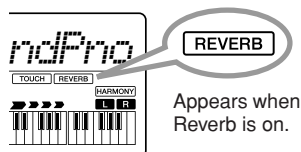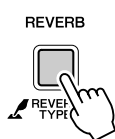
Select a Reverb Type

The ideal type is automatically selected whenever you select a Song or Style, but you can select any of the available Reverb Types.

1 Press and hold the [REVERB] button for longer than a second. "REVERB" appears in the display for a few seconds, followed by the Reverb Type.

Currently selected Reverb Type

2 Select the desired Reverb Type by using the number buttons [0]–[9], [+], [-].
Refer to the Reverb Type list on page 73 for details.
You can adjust the Reverb depth in the Function Settings (page 56).

📝 **NOTE**

- You can also access the Reverb Type setting display by pressing the [FUNCTION] button several times.

Adding Chorus

This effect makes the Voice sound richer, warmer and more spacious. The best-suited Chorus type is automatically selected whenever you select a Voice; however, you can select any of the available types.

1 Press the [FUNCTION] button a number of times until the "Chorus" appears.
"Chorus" appears in the display for a few seconds, followed by the Chorus Type.

FUNCTION

Currently selected Chorus Type
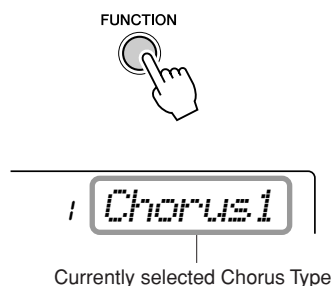
2 Select a desired Chorus Type by using the number buttons [0]–[9], [+], [-].
Refer to the Chorus Type list on page 73 for details.
You can adjust the Chorus depth independently for the Main, Dual and Split Voices in the Function Settings (page 56).

Reference

Adding Panel Sustain

This function adds a fixed sustain to the keyboard Voices.

1 Press the [FUNCTION] button a number of times until the "Sustain" item appears.

$$\boxed{\textit{oFF}}\ \textit{Sustain}$$

Current setting
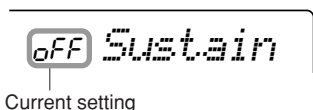
2 Press the [+] button to turn the Panel Sustain on.
Panel Sustain will be added to the notes you play on the keyboard when the Panel Sustain is on. To turn it off, press the [-] button.

$$\boxed{\textit{on}}\ \textit{Sustain}$$

On
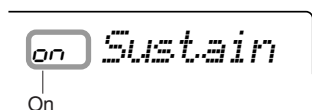
> **NOTE**
>
> • See the section "Connecting a footswitch" on page 9 for information on applying sustain with the optional footswitch.

Touch Response Sensitivity

Touch Response
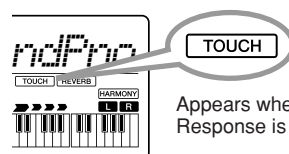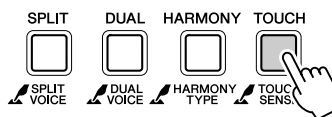
Press the [TOUCH] button to turn Touch Response on. When Touch Response is on, you can control the volume of notes according to how hard you play the keys. Touch Response is normally on. Press the [TOUCH] button again to turn the Touch Response off. When Touch Response is off, the same volume will be produced no matter how hard you play the keys.

> **NOTE**
>
> • The Touch Response function cannot be used for some Voices (such as organ), even if the Touch Response icon appears in the display.

Setting the Touch Sensitivity

When Touch Response is on, you can adjust the sensitivity of the keyboard in response to keyboard dynamics in three steps. Higher values produce greater (easier) volume variation in response to keyboard dynamics—in other words, greater sensitivity.

1 Press and hold the [TOUCH] button for longer than a second.
"TouchSns" appears in the display for a few seconds, followed by the current Touch Sensitivity value.

$$\boxed{2}\ \textit{Medium}$$

Currently selected Touch Sensitivity

2 Select a Touch Sensitivity setting between 1 and 3 by using the number buttons [0]–[9], [+], [-].

Playing Two Voices Simultaneously—Dual

You can select a second Voice which will play in addition to the Main Voice selected on the previous page. This second Voice is known as the Dual Voice.

Two Voices sound at the same time
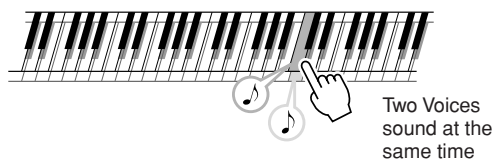
Play the Dual Voice

Press the [DUAL] button to turn the Dual function on.

When Dual is on, you can play a Dual Voice in a layer with the Main Voice.

To turn the Dual Voice off and play only the Main Voice, press the [DUAL] button again.

SPLIT DUAL HARMONY TOUCH

SPLIT VOICE   DUAL VOICE   HARMONY TYPE   TOUCH SENSE

Appears when Dual is on.
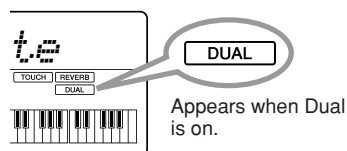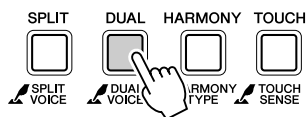
Selecting a Dual Voice

The best-suited Dual Voice is automatically selected whenever you turn Dual on, but you can select any of the available Dual Voices.

1 Press and hold the [DUAL] button for longer than a second.

"D. Voice" appears in the display for a few seconds, then the Dual Voice will appear.

Currently selected Dual Voice

📝 **NOTE**
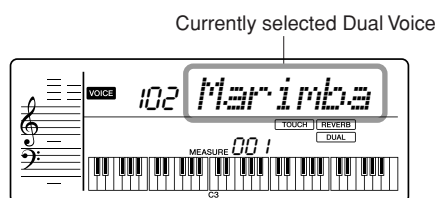
- You can also access the Dual Voice setting display by pressing the [FUNCTION] button several times, then selecting Dual Voice.

2 Select a Dual Voice.

Select the desired Dual Voice by using the number buttons [0]–[9], [+], [-].

Refer to the Voice List on page 64.

Reference

Playing Different Voices with the Left and Right Hands—Split

In the Split mode you can play different Voices to the left and right of the keyboard "Split Point." The main and Dual Voices can be played to the right of the Split Point, while the Voice played to the left of the Split Point is known as the "Split Voice"

Split Point

Split Voice

Main Voice and Dual Voice
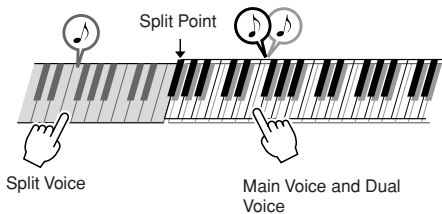
Play the Split Voice

Press the [SPLIT] button to turn the Split function on.
When Split is on you can play a Split Voice to the left of the Split Point.
When you don't want to play a Split Voice, press the [SPLIT] button to turn Split off.

SPLIT DUAL HARMONY TOUCH

SPLIT VOICE DUAL VOICE HARMONY TYPE TOUCH SENSE

SPLIT

Appears when Split is on.
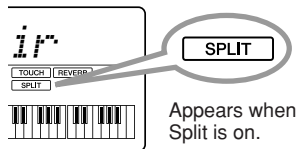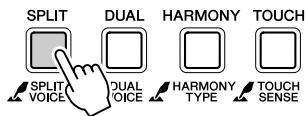
NOTE
• The Split Point setting can be changed as required (page 47).

Select a Split Voice

You can select a different Split Voice by following the procedure outlined below.

1 Press and hold the [SPLIT] button for longer than a second.
"S. Voice" appears in the display for a few seconds, then the Split Voice will appear.

The currently selected Split Voice

VOICE 039 FngrBass

TOUCH REVERB
SPLIT
MEASURE 001

C3
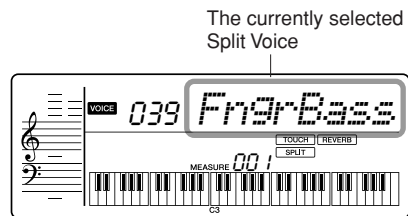
NOTE
• You can also access the Split Voice setting display by pressing the [FUNCTION] button several times, then selecting the Split Voice.

2 Select a Split Voice
Select the desired Split Voice by using the number buttons [0]–[9], [+], [-].
Refer to the Voice List on page 64.

Reference

Setting the Split Point

The Split Point setting can be changed as desired.

Split Point—default setting: 54 (F#2)

36   48   60   72   84   96
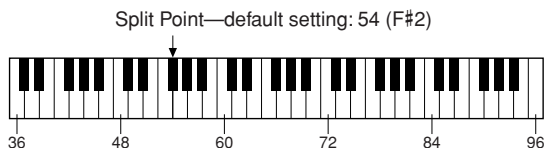
The initial default Split Point is key number 54 (the F♯2 key), but you can change it to another key. When you change the Split Point, the auto accompaniment range also changes.

1 Press the [FUNCTION] button a number of times until "SplitPnt" appears.

Currently selected Split Point   Split Point

VOICE *054* *SplitPnt.*

TOUCH REVERB

00 1

MEASURE

C3
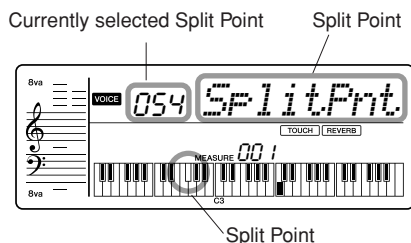
Split Point

2 Set the Split Point by using the number buttons [0]–[9], [+], [-].

NOTE

• Press the [+] and [-] buttons simultaneously to instantly reset the value to its default setting (54 or F#2).

Adjusting the Voice volume

The Voice volume can be individually adjusted for the Main, Dual, and Split Voices.

1 Press the [FUNCTION] button a number of times until the required Voice volume item appears.

Select "M.Volume" for Main Voice volume, "D.Volume" for Dual Voice volume, or "S.Volume" for Split Voice volume.

100 *M.Volume*
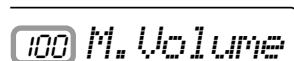
2 Set the Voice volume by using the number buttons [0]–[9], [+], [-].

NOTE

• Press the [+] and [-] buttons simultaneously to instantly reset the value to its default setting. The default setting varies depending on the Voice.

Reference

Setting the Metronome Beats per Measure, and the Length of Each Beat

In this example we'll set up a 3/4 time signature.

1 Press and hold the [METRONOME] button for longer than a second to select the number of beats per measure function "TimeSigN".

METRONOME

TIME SIGNA

Hold for longer than a second.

Number of beats per measure.

04 TimeSigN
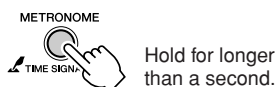
2 Use the number buttons [0]–[9], [+], [-] to select the number of beats per measure. A chime will sound on the first beat of each measure while the other beats will click. All beats will simply click with no chime at the beginning of each measure if you set this parameter to "00". The available range is from 0 through 60. Select 3 for this example.

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

3 Press the [FUNCTION] button a number of times to select the beat length function "TimeSigD". The currently selected beat length will be displayed.

04 TimeSigD

The length of one beat.

4 Use the [+], [-] to select the beat length. Select the required length for each beat: 2, 4, 8, or 16 (half note, quarter note, eighth note, or 16^(th) note). Select 4 for this example.

Setting the Metronome Volume

1 Press the [FUNCTION] button a number of times until "MetroVol" appears.

100 MetroVol

Metronome Volume

2 Set the metronome volume by using the number buttons [0]–[9], [+], [-].

Octave

The pitch of a note can be shifted upward or downward in steps of an octave for the Main, Dual, and Split Voices.

1 Press the [FUNCTION] button a number of times until the required Voice octave item appears.

Select "M. Octave" for Main Voice octave, "D. Octave" for Dual Voice octave, "S. Octave" for Split Voice octave.

$$\boxed{0} \; \textit{M.Octave}$$

Current octave value

2 Set the octave by using the number buttons [0]–[9], [+], [-].

📝 **NOTE**

• Press the [+] and [-] buttons simultaneously to instantly reset the value to its default setting (0).

Transpose

The instrument's Transpose function makes it possible to shift the pitch of the entire keyboard up or down in semitone intervals to facilitate playing in difficult key signatures, and to let you easily match the pitch of the keyboard to the range of a singer or other instruments. For example, if you set the transposition amount to "5," playing key C produces pitch F. In this way, you can play a song as though it were in C major, and the instrument will transpose it to the key of F.

1 Press the [FUNCTION] button a number of times until the "Transpos" appears.

$$\boxed{00} \; \textit{Transpos}$$

Current transpose value

2 Use the number buttons [0]–[9], [+], [-] to set the Transpose value between -12 and +12 as required.

📝 **NOTE**

• The pitch of the Drum Kits Voices (Voice numbers 109–121) cannot be changed.

• Press the [+] and [-] buttons simultaneously to instantly reset the value to its default setting (00).

Reference

Tuning

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

1 Press the [FUNCTION] button a number of times until "Tuning" appears.

```
000 Tuning
```
Current tuning value
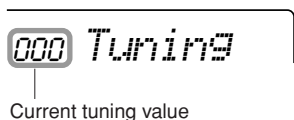
2 Use the number buttons [0]–[9], [+] and [-] to set the Tuning value between -100 and +100 as required.

NOTE

- *The pitch of the Drum Kits Voices (Voice numbers 109–121) cannot be changed.*
- *Press the [+] and [-] buttons simultaneously to instantly reset the value to its default setting (000).*

One Touch Setting

Sometimes selecting the ideal Voice to play with a Song or Style can be confusing. The One Touch Setting feature automatically selects the most suitable Voice for you when you select a Style or Song. Simply select Voice number "000" to activate this feature.

1 Press the [VOICE] button, and then select Voice number "000" by using the number buttons [0]–[9], [+], [-].

```
000 SprnoSax
```
Appears when One Touch Setting is on.

This turns the One Touch Setting feature on. One Touch Setting will be turned off if you select any other Voice number.

Reference

Song settings

Mute

The Song is made up by several tracks.
You can mute Track 1 or Track 2 during Song playback. You can turn the left- and right-hand parts on or off as desired, allowing you to listen to the corresponding part (the part that is turned on), or practice the corresponding part (the part that is turned off) on the keyboard.

- Track 1 can be muted by pressing the [REC TRACK 1] button during Song playback.

- Track 2 or style track can be muted by pressing the [REC TRACK 2] button during Song playback.

You can cancel the mute function by pressing the corresponding track buttons, [TRACK 1] or [TRACK 2] again during Song playback, or by selecting any other Song.
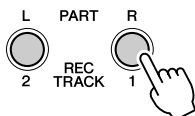
Pressing one of the Track buttons [TRACK 1] or [TRACK 2] will mute the corresponding track during Song playback.
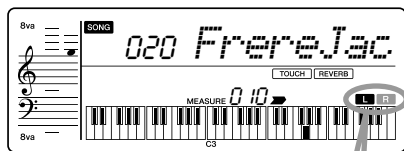
Lit—track contains data.

Unlit—track is muted or contains no data.

A-B Repeat

This function lets you specify a section of a Song—"A" is the start point and "B" is the end point—for repeat playback.

Repeat playback of this section
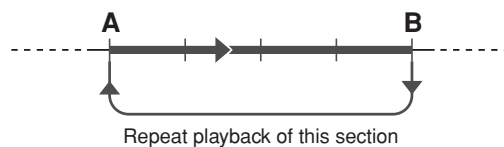
1 Play the Song and press the [A-B REPEAT] button at the beginning of the section you want to repeat (the "A" point), then press the [A-B REPEAT] button a second time at the end of the section you want to repeat (the "B" point). The specified A-B section of the Song will now play repeatedly.
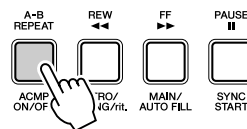
A-b REPEAT

NOTE

- The repeat start and end points can be specified in one-measure increments.

- You can also set the A-B Repeat function when the Song is stopped. Simply use the [REW] and [FF] buttons to select the desired measures, pressing the [A-B REPEAT] button for each point, then start playback.

- If you want to set the start point "A" at the very beginning of the Song press the [A-B REPEAT] button before starting playback of the Song.

You can stop repeat playback at any time by pressing the [A-B REPEAT] button.
An "oFF REPEAT" message appears on the display. The A-B REPEAT mode will be canceled and normal playback of the Song will continue.

NOTE

- The A-B Repeat function will be canceled when you select another Song or Style mode.

Song Volume

This procedure allows you to adjust the balance between Song playback and the notes you play on the keyboard by setting the volume of the playback sound.

1 Press the [SONG] button.

2 Press the [FUNCTION] button a number of times until "SongVol" appears.

Current Song Volume

$$\boxed{100}\ \textit{SongVol}$$

3 Set the Song Volume by pressing the number buttons [0]–[9], [+], [-].

NOTE

• Press the [+] and [-] buttons simultaneously to instantly reset the value to its default setting (100).

Tap Start

Set the Tempo by using the number buttons [0]–[9], [+], [-].
After selecting a song, you can set the Tempo by simply tapping the [TEMPO/TAP] button at the required tempo—four times for time signatures in 4, and three times for time signatures in 3. You can change the Tempo during Song playback by pressing the [TEMPO/TAP] button just twice.

Changing the Melody Voice

You can change a Song's melody Voice to any other Voice you prefer.

NOTE

• You cannot change the melody Voice of a User Song.

1 Select the Song and play it.
Refer to the section "Playing Songs" on page 16.

2 Select a desired Voice by using the number buttons [0]–[9], [+], [-].

The selected Voice sounds when you play the keyboard.
If a Song has played through and stopped during this procedure, press the [START/STOP] button to start playback again.

3 Press and hold the [VOICE] button for longer than a second.
"SONG MELODY VOICE" appears in the display for a few seconds, indicating that the Voice selected in Step *2* has replaced the Song's original melody Voice.

Hold for longer than a second.

Reference
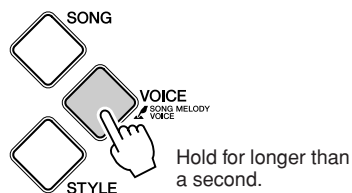
Style (Auto Accompaniment) Functions

Starting Style playback

The following two methods can be used to start Style playback. In either case you will need to press the [ACMP ON/OFF] button to turn auto accompaniment on before actually starting Style playback.

■ Synchro Start (Chord Start)

Press the [SYNC START] button and the beat arrows will begin flashing, indicating that the Sync Start "standby" mode has been engaged. The bass and chords will begin playing as soon as you play a chord in the accompaniment range of the keyboard.

PAUSE

SYNC
START

001 8BtModrn
STYLE
TOUCH REVERB ACMP ON
MEASURE 001

Sync Start standby

Accompani-
ment range
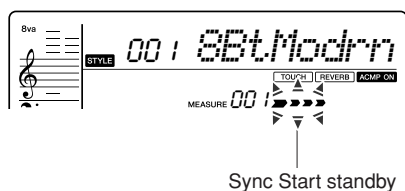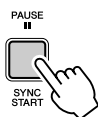
Style playback begins when you play a chord

The Sync Start "standby" mode will be cancelled when Style playback starts.

> **NOTE**
> • If you press the [SYNC START] button during Style playback, playback will stop immediately and the Sync Start standby mode will be engaged (beat arrows will flash).

■ Tap Start

You can supply a count-in at any tempo you like to start playback. Simply tap the [TEMPO/TAP] button at any tempo—4 times for time signatures in 4, and 3 times for time signatures in 3—and the selected Style rhythm will begin playing at the tapped tempo.

The bass and chords will begin playing as soon as you play a chord in the accompaniment range of the keyboard.

TEMPO/TAP

Adjusting the Style Volume

This procedure allows you to adjust the balance between Style playback and the notes you play on the keyboard by setting the volume of the playback sound.

1 Press the [STYLE] button.

2 Press the [FUNCTION] button a number of times until the "StyleVol" appears.

Current Style volume setting
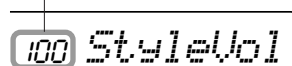
100 StyleVol

3 Set the Style volume by using the number buttons [0]–[9], [+], [-].

> **NOTE**
> • Press the [+] and [-] buttons simultaneously to instantly reset the value to its default setting (100).

Looking up Chords Using the Chord Dictionary

The Dictionary function is essentially a built-in "chord dictionary" 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 and hold the [1 LISTENING 2 TIMING 3 WAITING] button for longer than a second.
"Dict." will appear in the display.

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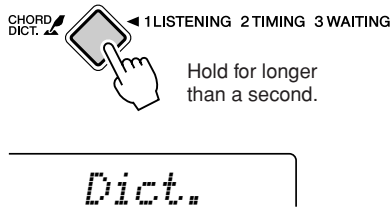
2 As an example, we'll learn how to play a GM7 (G major seventh) chord. Press the "G" key in the section of the keyboard labeled "ROOT▶." (The note doesn't sound.) The root note you set is shown in the display.

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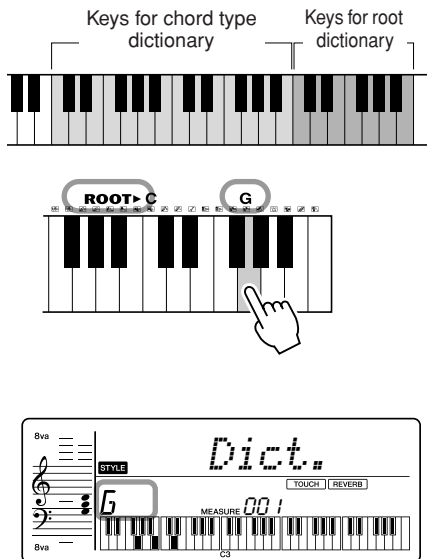
3 Press the "M7" (major seventh) key in the section of the keyboard labeled "CHORD TYPE▶." (The note doesn't sound.)
The notes you should play for the specified chord (root note and chord type) are shown in the display, both as notation and in the keyboard diagram.

Notation of chord

Chord name (root and type)   Individual notes of chord (keyboard)
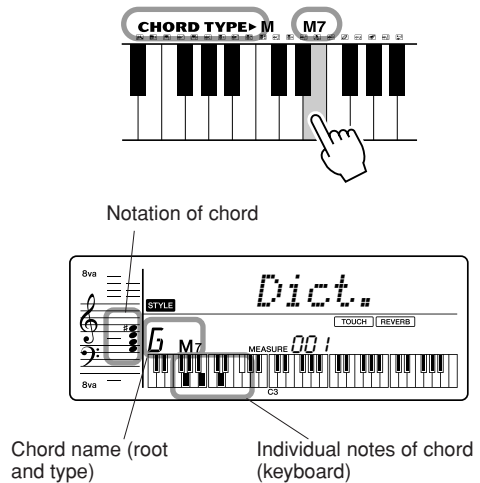
To call up possible inversions of the chord, press the [+]/[-] buttons.

NOTE

- *Major chords are usually indicated by the root name only. For example, the indication "C" in a score refers to a "C Major" chord. To look up the fingering for a major chord press the root key and then the M chord type key.*

- *These chords are not shown in the Chord Dictionary function: 6(9), M7(9), M7(#11), ♭5, M7♭5, M7aug, m7(11), mM7(9), mM7♭5, 7♭5, sus2*

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

Registering Style Files

This instrument features 106 internal styles, but other styles, such as those which can be obtained from the internet (only styles with the ".sty" suffix), can be registered into style number 107 and used in the same way as the internal styles.

In order to use the style file register function, the file must already have been transferred from the computer to the instrument. The procedure for transferring files from a computer to the instrument is described on page 60 ("Transferring data between the PSR-E323/YPT-320 and a computer").
The procedure described below registers a style file that has already been transferred from a computer to the instrument into style number 107.

1 Press the [FUNCTION] button as many time as necessary to select the style file load function "StyleReg".

$$StyleReg$$

After about 2 seconds the name of a registerable style file will appear in the display.
If multiple loadable style files have been transferred to the instrument, you can use the [+] and [-] buttons to select the other files in sequence.

2 Execute the register operation.
With the name of the style file you want to register shown in the display, press the number [0] button.
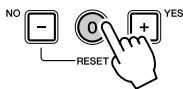
3 A confirmation message for the register operation will appear. Press the [+/YES] button to actually register the file.
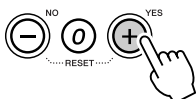
Function Settings

The [FUNCTION] button gives you access to a variety of operations related to adjusting or enhancing the sound and making settings for connection to external devices.

Select the item and change the value

There are 34 different items that can be set.

1 Press the [FUNCTION] button a number of times until desired item appears.

Each time the [FUNCTION] button is pressed 34 function items are displayed in sequence. The description and display sample is provided on the Function Setting List on page 56–57.

FUNCTION

Value   Function item
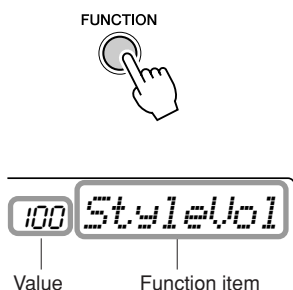
2 Set the value by using the number buttons [0]–[9], [+], [-].
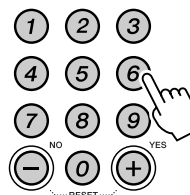
For on/off settings or the PC Mode setting, use [+]/[-] buttons.

> **NOTE**
> • Press the [+] and [-] buttons simultaneously to instantly reset the numeric parameter to its default setting.

● Function Setting List

Item	Display	Range/settings	Description
Style Volume	StyleVol	000–127	Determines the volume of the Style.
Song Volume	SongVol	000–127	Determines the volume of the Song.
Transpose	TransPos	-12–00–12	Determines the pitch of the instrument by semitone increments.
Tuning	Tuning	-100–000–100	Sets the pitch of the instrument's sound in 1-cent increments.
Split Point	SplitPnt	000–127 (C-2–G8)	Determines the highest key for the Split Voice and sets the Split "point"—in other words, the key that separates the Split (lower) and Main (upper) Voices. The Split Point setting and Accompaniment Split Point setting are automatically set to the same value.
Touch Sensitivity	TouchSns	1 (Soft) 2 (Medium) 3 (Hard)	When Touch Response is on, this determines the sensitivity of the feature.
Style Register	StyleReg	001–nnn	Select and register a style file from flash files that are loaded from computer.
Main Voice Volume	M.Volume	000–127	Determines the volume of the Main Voice.
Main Voice Octave	M.Octave	-2–0–2	Determines the octave range for the Main Voice.
Main Voice Chorus Send Level	M.Chorus	000–127	Determines how much of the Main Voice's signal is sent to the Chorus effect.

Item	Display	Range/settings	Description
Dual Voice	D.Voice	001–482	Selects the Dual Voice.
Dual Voice Volume	D.Volume	000–127	Determines the volume of the Dual Voice.
Dual Voice Octave	D.Octave	-2–0–2	Determines the octave range for the Dual Voice.
Dual Voice Chorus Send Level	D.Chorus	000–127	Determines how much of the Dual Voice's signal is sent to the Chorus effect.
Split Voice	S.Voice	001–482	Selects the Split Voice.
Split Voice Volume	S.Volume	000–127	Determines the volume of the Split Voice.
Split Voice Octave	S.Octave	-2–0–2	Determines the octave range for the Split Voice.
Split Voice Chorus Send Level	S.Chorus	000–127	Determines how much of the Split Voice's signal is sent to the Chorus effect.
Reverb Type	Reverb	01–10	Determines the Reverb type, including off (10). Refer to the Reverb Type list on page 73.
Reverb Level	RevLevel	000–127	Determines how much of the Voice's signal is sent to the Reverb effect.
Chorus Type	Chorus	1–5	Determines the Chorus Type, including off (05). Refer to the Chorus Type list on page 73.
Panel Sustain	Sustain	ON/OFF	Determines whether or not Panel Sustain is always applied to the Main/Dual/Split Voices. Panel Sustain is applied continuously when ON, or not applied when OFF.
Harmony Type	HarmType	01–26	Determines the Harmony Type. Refer to the Harmony Type list on page 73.
Harmony Volume	HarmVol	000–127	Determines the volume of the Harmony effect when Harmony type 1–5 is selected.
PC Mode	PC mode	OFF/PC1/PC2	Optimizes the MIDI settings when you connect to a computer (page 59).
Local On/Off	Local	ON/OFF	Determines whether the instrument's keyboard controls the internal tone generator (ON) or not (OFF).
External Clock	ExtClock	ON/OFF	Determines whether the instrument synchronizes to the internal clock (OFF) or an external clock (ON).
Initial Setup Send	InitSend	YES/NO	Lets you send the data of the panel settings to a computer. Use the [+] button to transmit the data.
Time Signature Numerator	TimeSigN	00–60	Determines the time signature of the Metronome.
Time Signature Denominator	TimeSigD	Half note, Quarter note, Eighth note, Sixteenth note	Sets the length of each metronome beat.
Metronome Volume	MetroVol	000–127	Determines the volume of the Metronome.
Lesson Track (R)	R-Part	01–16	Determines the guide track number for your right hand lesson. The setting is only effective for Songs in SMF format 0 transferred from a computer. Refer to the section "Using Transferred Songs for Lessons" on page 62.
Lesson Track (L)	L-Part	01–16	Determines the guide track number for your left hand lesson. The setting is only effective for Songs in SMF format 0 transferred from a computer. Refer to the section "Using Transferred Songs for Lessons" on page 62
Demo Cancel	D-Cancel	ON/OFF	Determines whether Demo cancel is enabled or not. When this is set to ON, the Demo Song will not play, even if the [DEMO] button is pressed.

Reference

About MIDI

The instrument features a MIDI terminals that can be connected to other MIDI instruments and devices for expanded musical functionality.

What is MIDI?

MIDI (Musical Instrument Digital Interface) is a world-standard interface for communication between electronic musical instruments and music devices. When MIDI-equipped instruments are connected via a MIDI cable, it becomes possible to transfer performance and setting data between them for significantly enhanced performance and production potential.

⚠ CAUTION

- *Connect the PSR-E323/YPT-320 to external equipment only after turning off power for all devices. Then, turn on the power, first to the PSR-E323/YPT-320, then to the connected external equipment. Reverse this order when you turn the power off.*

📝 NOTE

- *MIDI cables (sold separately) must be used for connecting to MIDI devices. They can be bought at music stores, etc.*

Transferring Performance Data To and From Another Instrument

By connecting the PSR-E323/YPT-320 to other MIDI devices or a computer, the performance data of the instrument can be used on those other MIDI devices or computer, and also the performance data from other MIDI devices and computer can be received and sounded with the PSR-E323/YPT-320.

A Yamaha UX16 or similar USB-MIDI interface (sold separately) will be necessary for MIDI connection between the PSR-E323/YPT-320 and a USB-equipped computer.

Make sure to purchase a Yamaha UX16 or a quality USB-MIDI interface at a musical instrument store, computer store or electrical appliance store.

If you use the UX16 interface, install the driver supplied with the interface on your computer.

📝 NOTE

- *Preset Song data cannot be transmitted from the instrument by the Song Out function.*

● **When the instrument is connected with another MIDI device, it transmits/receives performance data.**
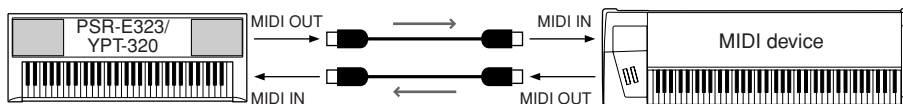
● **When the instrument is connected with a computer, it transmits/receives performance data.**
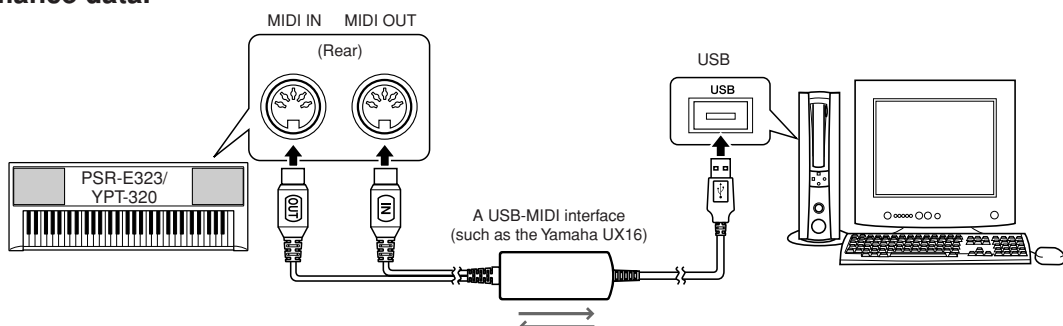
■ MIDI settings

These settings should be made when transmitting/receiving performance data to a connected MIDI device or computer.

Local Settings

Local Control determines whether or not notes played on the instrument are sounded by its internal tone generator system; the internal tone generator is active when local control is on, and inactive when local control is off.

• **On**

This is the normal setting in which notes played on the instrument's keyboard are sounded by the internal tone generator system. Data received via the instrument's MIDI terminal will also be played by the internal tone generator.

• **Off**

With this setting the instrument itself produces no sound (keyboard performance, Harmony, or Style playback), but the performance data is transmitted via the MIDI terminal. Data received via the instrument's MIDI terminal will also be played by the internal tone generator.

You can set the Local Control in the Function Settings (page 56).

📝 NOTE
  • *If you can't get any sound out of the instrument, Local Control may be the most likely cause. Playing the keyboard results in no sound when Local is set to OFF.*

External Clock Settings

These settings determine whether the instrument is synchronized to its own internal clock (OFF), or to a clock signal from an external device (ON).

• **On**

The instrument's time based functions will be synchronized to the clock from an external device connected to the MIDI terminal.

• **Off**

The instrument uses its own internal clock (default).

You can set the External Clock in the Function Settings (page 56).

📝 NOTE
  • *If External Clock is ON and no clock signal is being received from an external device, the Song, Style, and metronome functions will not start.*

PC Mode

The PC settings instantly reconfigure all important MIDI settings (as shown below). The selections are PC1, PC2 and OFF.

📝 NOTE
  • *Song Out, Style Out and Keyboard Out can only be changed by the PC setting. They cannot be set independently.*
  • *User Songs can be used with Song Out.*

● **The chart of PC Settings**

	PC1	PC2*	OFF
LOCAL	Off	Off	On
EXTERNAL CLOCK	On	Off	Off
SONG OUT**	Off	Off	On
STYLE OUT***	Off	Off	On
KEYBOARD OUT****	Off	On	On

*   Set the PC mode to PC2 when using Digital Music Notebook.
     Digital Music Notebook is a major new multimedia platform for music tuition and performance. Visit the website below for more information on the latest version of Digital Music Notebook and how to install it.
     www.digitalmusicnotebook.com

**   Determines whether Song data is transmitted (ON) via MIDI or not (OFF) during Song playback.
***   Determines whether Style data is transmitted (ON) via MIDI or not (OFF) during Style playback.
**** Determines whether keyboard performance data of the instrument is transmitted (ON) or not (OFF).

1 Press and hold the [DEMO] button for longer than a second to call up the PC Mode.
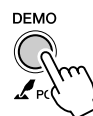
Hold for longer than a second.

oFF PC mode

2 Select PC1, PC2, or OFF by using the [+], [-] buttons.

Reference

Remote Control of MIDI Devices

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

● Remote control keys
PSR-E323/YPT-320: To use the remote control functions, simultaneously hold down the lowest two keys on the keyboard (C1 and C♯1) and press the appropriate key (shown below).

C♯1

C1

C6: Fast forward
B5: Start
A5: Stop
G5: Rewind
F5: Top (move to the beginning of the song)
E5: Metronome ON/OFF
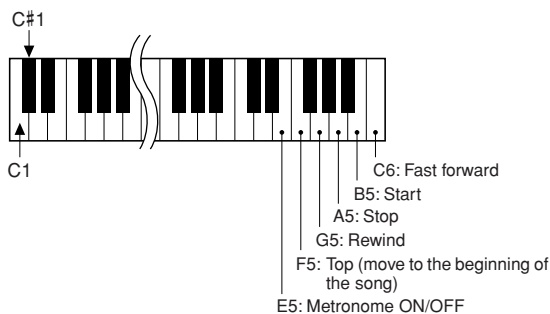
> **NOTE**
> • Remote control of MIDI devices will function independently of the PC2 mode.

PSR-E323/YPT-320 Panel Setting Transmission (Initial Send)

Sends the PSR-E323/YPT-320 panel settings to an external MIDI device.
When recording a PSR-E323/YPT-320 performance to an external sequencer or similar equipment, you can use this function to send the current PSR-E323/YPT-320 panel settings so that when the sequence is played back the original panel settings are automatically restored.
You can set Initial Send in the Function settings (page 56).

Transferring data between the PSR-E323/YPT-320 and a computer

The PSR-E323/YPT-320 includes 102 preset Songs and 106 Styles, but you can load other Songs and Styles from your computer and use them in the same way as the preset Songs and Styles as long as the loaded Song is SMF format 0* or the loaded Style is SFF (Style File Format). Loaded Song data will be stored to Song numbers beginning with 108 and one of the loaded style/s can be registered as the 107th style.
In order to perform the operations described in this section you will need to use a computer connected to the Internet to download the free Musicsoft Downloader application.

* The SMF (Standard MIDI File) format is one of the most common and widely compatible sequence formats used for storing sequence data. Most commercially available MIDI sequence data is provided in SMF Format 0.

Installing Musicsoft Downloader

You can download the "Musicsoft Downloader" application from the following website. Make sure that your computer has an Internet connection.

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

> **NOTE**
> • Visit the Yamaha website for more information on the latest version of Musicsoft Downloader (version 5.4.0 or higher) and how to install it.

● The minimum computer requirements for Musicsoft Downloader operation are as follows:
- OS : Windows 2000/XP/Vista
  * Only 32-bit is supported.
- CPU : 233 MHz or higher; Intel® Pentium®/Celeron® processor family (500 MHz or more is recommended)
- Memory : 64 MB or more (256 MB or more is recommended)
- Hard Disk : at least 128 MB of free space (at least 512 MB of free space is recommended)
- Display : 800 x 600 HighColor (16-bit)
- Other : Microsoft® Internet Explorer®5.5 or higher

Connecting a personal computer

After installing the Musicsoft Downloader application on your computer, connect the PSR-E323/YPT-320 as described below.

A Yamaha UX16 or similar USB-MIDI interface (sold separately) will be necessary for MIDI connection between the PSR-E323/YPT-320 and a USB-equipped computer.

Make sure to purchase a Yamaha UX16 or a quality USB-MIDI interface at a musical instrument store, computer store or electrical appliance store.

If you use the UX16 interface, install the driver supplied with the interface on your computer.

USB

A USB-MIDI interface
(such as the Yamaha UX16)

MIDI IN   MIDI OUT

(Rear)

PSR-E323/
YPT-320
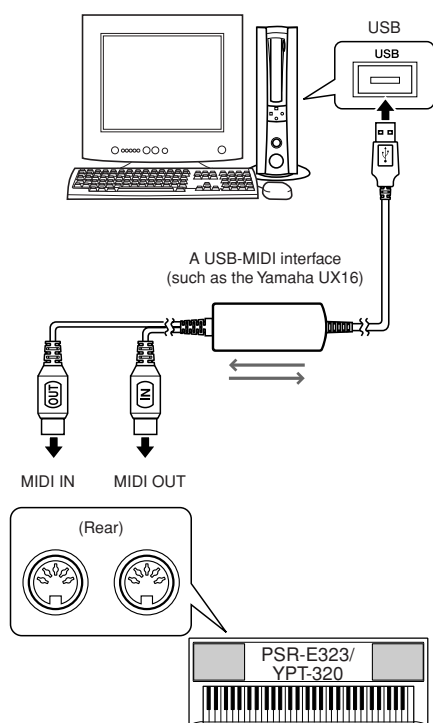
Transferring a file from a computer

You can transmit Song files and Style Files from your computer to the Flash Memory on your instrument. Move the file from the computer to "Flash Memory" under "Electronic Musical Instruments" via the Musicsoft Downloader. For details about how to transmit Song file and Style File, refer to the Online help topic "Transferring Data Between the Computer and Instrument (for unprotected data)" of the Musicsoft Downloader.

● **Data that can be loaded to the PSR-E323/YPT-320 from a computer**
- Songs : 99 Songs max (Song numbers 108–)
- Data : 373 kilobytes
- Data Format : SMF Format 0 and 1
- File : 09PK3.BUP (Backup file)
  : ***.mid (MIDI Song)
  : ***.sty (Style File)

NOTE

- *The Musicsoft Downloader application may not be able to access the instrument in the following cases:*
  - *During Style playback*
  - *During Song playback*

⚠ **CAUTION**

- ***Use the power adaptor when transferring data. The data can be corrupted if the batteries fail during the transfer.***
- ***Never turn the power off and never plug/unplug the AC power adaptor during data transmission. Not only will the data fail to be transferred and saved, but operation of the flash memory may become unstable and its contents may disappear completely when the power is turned on or off.***

NOTE

- *Close the window to exit from the Musicsoft Downloader and re-enable control of the instrument.*

Reference

Transferring a backup file from the PSR-E323/YPT-320 to a computer

You can transfer backup data (page 41) other than "Passing status of Song and Step" to a computer as a "backup file" by using Musicsoft Downloader. Move the file from "System Drive" under "Electronic Musical Instruments" to the computer via the Musicsoft Downloader. For details about how to transmit backup files, refer to the Online help topic "Transferring Data Between the Computer and Instrument (for unprotected data)" of the Musicsoft Downloader.

● Data that can be transferred to a computer from the PSR-E323/YPT-320
- Backup file (09PK3.BUP: backup data containing five User Songs)
- Songs transferred from a computer

NOTE

- *Preset Song data cannot be transmitted from the PSR-E323/YPT-320.*

⚠ **CAUTION**

- ***The backup data, including the five User Songs is transmitted/received as a single file. As a result, all backup data (including the five Songs) will be overwritten every time you transmit or receive. Keep this in mind when transferring data.***
- ***Do not rename the backup file on the computer. If you do so, it will not be recognized when transferred to the instrument.***

● Erasing Transferred Song Data from the PSR-E323/YPT-320 Memory
To erase all Songs transferred from the computer, use "flash clear" function on page 41.
To erase specific Songs transferred from the computer, use the Delete function on Musicsoft Downloader.

● Using Transferred Songs for Lessons
In order to use Songs (only SMF format 0) transferred from a computer for lessons it is necessary to specify which channels are to be played back as the right-hand and left-hand parts. Refer to the "Lesson Track (R)" or "Lesson Track (L)" in the Function Setting List on page 57. The procedure for setting the "guide track" is as follows: Select a transferred Song you want to use for lessons. Press the [FUNCTION] button a number of times until the "R-Part" or "L-Part" appears in the display, and then use the number buttons [0]–[9], [+], [-] to select the channel you want to play back as the specified right- or left-hand part. We recommend that you select channel 1 for the right-hand part and channel 2 for the left-hand part.

Reference

Troubleshooting

Problem	Possible Cause and Solution
When the instrument is turned on or off, a popping sound is temporarily produced.	This is normal and indicates that the instrument is receiving electrical power.
When using a mobile phone, noise is produced.	Using a mobile phone in close proximity to the instrument may produce interference. To prevent this, turn off the mobile phone or use it further away from the instrument.
There is no sound even when the keyboard is played or when a Song or Style is being played back.	Check that nothing is connected to the PHONES/OUTPUT jack on the rear panel. When a set of headphones is plugged into this jack, no sound is output.
	Check the Local Control on/off. (See page 59.)
Not all of the voices seem to sound, or the sound seems to be cut off.	The instrument is polyphonic up to a maximum of 32 notes — including Dual voice, Split Voice, auto accompaniment, song, and Metronome. Notes exceeding this limit will not sound.
Playing keys in the right hand area of the keyboard does not produce any sound.	When using the Dictionary function (page 54), the keys in the right hand area are used only for entering the chord root and type.
• The volume is too soft. • The sound quality is poor. • The rhythm stops unexpectedly or will not play. • The recorded data of the Song, etc. does not play correctly. • The LCD display suddenly goes dark, and all panel settings are reset.	The batteries are low or dead. Replace all six batteries with completely new ones, or use the optional AC adaptor.
The Style or Song does not play back when the [START/STOP] button is pressed.	Is External Clock set to ON? Make sure External Clock is set to OFF; refer to "External Clock Settings" on page 59.
The Style does not sound properly.	Make sure that the Style Volume (page 53) is set to an appropriate level.
	Is the Split Point set at an appropriate key for the cords you are playing? Set the Split Point at an appropriate key (page 47). Is the "ACMP ON" indicator showing in the display? If it is not showing press the [ACMP ON/OFF] button so that it does show.
	• 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. • Playing two same root keys in the adjacent octaves produces accompaniment based only on the root.
No rhythm accompaniment plays when the [START/STOP] button is pressed after selecting Style number 098–106 (Pianist).	This is not a malfunction. Style number 098–106 (Pianist) have no rhythm parts, so no rhythm will play. The other parts will begin playing when you play a chord in the accompaniment range of the keyboard if auto accompaniment is turned on.
The footswitch (for sustain) seems to produce the opposite effect. For example, pressing the footswitch cuts off the sound and releasing it sustains the sounds.	The polarity of the footswitch is reversed. Make sure that the footswitch plug is properly connected to the SUSTAIN jack before turning on the power.
The sound of the voice changes from note to note.	This is normal. The AWM tone generation method uses multiple recordings (samples) of an instrument across the range of the keyboard; thus, the actual sound of the voice may be slightly different from note to note.
The ACMP ON indicator does not appear when the [ACMP ON/OFF] button is pressed.	Always press the [STYLE] button first when you are going to use any style-related function.
The harmony doesn't sound.	The method of sounding the harmony effect (01–26) differs depending on the selected type. For Types 01–05, turn the Auto Accompaniment on and play it by pressing a chord in the auto accompaniment section of the keyboard, then play some keys in the right-hand side to get the harmony effect. For Types 06–26, turning the Auto Accompaniment on or off has no effect. However, it is necessary to play two notes simultaneously for Types 06–12.

Appendix

Voice List

■ Maximum Polyphony ······················

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

NOTE

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

● Panel Voice List

Voice No.	Bank Select MSB (0–127)	Bank Select LSB (0–127)	MIDI Program Change# (1–128)	Voice Name
			PIANO	
001	0	112	1	Grand Piano
002	0	112	2	Bright Piano
003	0	112	7	Harpsichord
004	0	112	4	Honky-tonk Piano
005	0	112	3	MIDI Grand Piano
006	0	113	3	CP 80
			E.PIANO	
007	0	114	5	Cool! Galaxy Electric Piano
008	0	113	6	Hyper Tines
009	0	112	5	Funky Electric Piano
010	0	112	6	DX Modern Electric Piano
011	0	114	6	Venus Electric Piano
012	0	112	8	Clavi
			ORGAN	
013	0	112	17	Jazz Organ 1
014	0	113	17	Jazz Organ 2
015	0	112	19	Rock Organ
016	0	114	19	Purple Organ
017	0	112	18	Click Organ
018	0	116	17	Bright Organ
019	0	127	19	Theater Organ
020	0	121	20	16'+2' Organ
021	0	120	20	16'+4' Organ
022	0	113	20	Chapel Organ
023	0	112	20	Church Organ
024	0	112	21	Reed Organ
			ACCORDION	
025	0	112	22	Musette Accordion
026	0	113	22	Traditional Accordion
027	0	113	24	Bandoneon
028	0	112	23	Harmonica
			GUITAR	
029	0	112	25	Classical Guitar
030	0	112	26	Folk Guitar
031	0	112	27	Jazz Guitar
032	0	117	28	60's Clean Guitar
033	0	113	26	12Strings Guitar
034	0	112	28	Clean Guitar
035	0	113	27	Octave Guitar
036	0	112	29	Muted Guitar
037	0	112	30	Overdriven Guitar
038	0	112	31	Distortion Guitar
			BASS	
039	0	112	34	Finger Bass
040	0	112	33	Acoustic Bass
041	0	112	35	Pick Bass
042	0	112	36	Fretless Bass
043	0	112	37	Slap Bass
044	0	112	39	Synth Bass
045	0	113	39	Hi-Q Bass
046	0	113	40	Dance Bass

Voice No.	Bank Select MSB (0–127)	Bank Select LSB (0–127)	MIDI Program Change# (1–128)	Voice Name
			STRINGS	
047	0	112	49	String Ensemble
048	0	112	50	Chamber Strings
049	0	113	50	Slow Strings
050	0	112	45	Tremolo Strings
051	0	112	51	Synth Strings
052	0	112	46	Pizzicato Strings
053	0	112	41	Violin
054	0	112	43	Cello
055	0	112	44	Contrabass
056	0	112	47	Harp
057	0	112	106	Banjo
058	0	112	56	Orchestra Hit
			CHOIR	
059	0	112	53	Choir
060	0	113	53	Vocal Ensemble
061	0	112	55	Air Choir
062	0	112	54	Vox Humana
			SAXOPHONE	
063	0	112	67	Tenor Sax
064	0	112	66	Alto Sax
065	0	112	65	Soprano Sax
066	0	112	68	Baritone Sax
067	0	114	67	Breathy Tenor Sax
068	0	112	72	Clarinet
069	0	112	69	Oboe
070	0	112	70	English Horn
071	0	112	71	Bassoon
			TRUMPET	
072	0	112	57	Trumpet
073	0	112	58	Trombone
074	0	113	58	Trombone Section
075	0	112	60	Muted Trumpet
076	0	112	61	French Horn
077	0	112	59	Tuba
			BRASS	
078	0	112	62	Brass Section
079	0	113	62	Big Band Brass
080	0	113	63	80's Brass
081	0	119	62	Mellow Horns
082	0	114	63	Techno Brass
083	0	112	63	Synth Brass
			FLUTE	
084	0	112	74	Flute
085	0	112	73	Piccolo
086	0	112	76	Pan Flute
087	0	112	75	Recorder
088	0	112	80	Ocarina
			SYNTH	
089	0	112	81	Square Lead
090	0	112	82	Sawtooth Lead
091	0	115	82	Analogon

Voice No.	Bank Select		MIDI Program Change# (1–128)	Voice Name
	MSB (0–127)	LSB (0–127)		
092	0	119	82	Fargo
093	0	112	99	Star Dust
094	0	112	86	Voice Lead
095	0	112	101	Brightness
096	0	112	92	Xenon Pad
097	0	112	95	Equinox
098	0	112	89	Fantasia
099	0	113	90	Dark Moon
100	0	113	101	Bell Pad
PERCUSSION				
101	0	112	12	Vibraphone
102	0	112	13	Marimba
103	0	112	14	Xylophone
104	0	112	115	Steel Drums
105	0	112	9	Celesta
106	0	112	11	Music Box
107	0	112	15	Tubular Bells
108	0	112	48	Timpani
DRUM KITS				
109	127	0	1	Standard Kit 1
110	127	0	2	Standard Kit 2
111	127	0	9	Room Kit
112	127	0	17	Rock Kit
113	127	0	25	Electronic Kit
114	127	0	26	Analog Kit
115	127	0	113	Dance Kit
116	127	0	33	Jazz Kit
117	127	0	41	Brush Kit
118	127	0	49	Symphony Kit
119	126	0	1	SFX Kit 1
120	126	0	2	SFX Kit 2
121	126	0	113	Sound Effect Kit

● **XGlite Voice/XGlite Optional Voice* List**

Voice No.	Bank Select		MIDI Program Change# (1–128)	Voice Name
	MSB (0–127)	LSB (0–127)		
PIANO				
122	0	0	1	Grand Piano
123	0	1	1	Grand Piano KSP
124	0	40	1	Piano Strings
125	0	41	1	Dream
126	0	0	2	Bright Piano
127	0	1	2	Bright Piano KSP
128	0	0	3	Electric Grand Piano
129	0	1	3	Electric Grand Piano KSP
130	0	32	3	Detuned CP80
131	0	0	4	Honky-tonk Piano
132	0	1	4	Honky-tonk Piano KSP
133	0	0	5	Electric Piano 1
134	0	1	5	Electric Piano 1 KSP
135	0	32	5	Chorus Electric Piano 1
136	0	0	6	Electric Piano 2
137	0	1	6	Electric Piano 2 KSP
*138	0	32	6	Chorus Electric Piano 2
139	0	41	6	DX + Analog Electric Piano
140	0	0	7	Harpsichord
141	0	1	7	Harpsichord KSP
142	0	35	7	Harpsichord 2
143	0	0	8	Clavi
144	0	1	8	Clavi KSP
CHROMATIC				
145	0	0	9	Celesta
146	0	0	10	Glockenspiel
147	0	0	11	Music Box
148	0	64	11	Orgel
149	0	0	12	Vibraphone
150	0	1	12	Vibraphone KSP
151	0	0	13	Marimba

Voice No.	Bank Select		MIDI Program Change# (1–128)	Voice Name
	MSB (0–127)	LSB (0–127)		
152	0	1	13	Marimba KSP
153	0	64	13	Sine Marimba
154	0	97	13	Balimba
155	0	98	13	Log Drums
156	0	0	14	Xylophone
157	0	0	15	Tubular Bells
158	0	96	15	Church Bells
159	0	97	15	Carillon
160	0	0	16	Dulcimer
161	0	35	16	Dulcimer 2
162	0	96	16	Cimbalom
163	0	97	16	Santur
ORGAN				
164	0	0	17	Drawbar Organ
165	0	32	17	Detuned Drawbar Organ
166	0	33	17	60's Drawbar Organ 1
167	0	34	17	60's Drawbar Organ 2
168	0	35	17	70's Drawbar Organ 1
169	0	37	17	60's Drawbar Organ 3
170	0	40	17	16+2'2/3
171	0	64	17	Organ Bass
172	0	65	17	70's Drawbar Organ 2
173	0	66	17	Cheezy Organ
174	0	67	17	Drawbar Organ 2
175	0	0	18	Percussive Organ
176	0	24	18	70's Percussive Organ
177	0	32	18	Detuned Percussive Organ
178	0	33	18	Light Organ
179	0	37	18	Percussive Organ 2
180	0	0	19	Rock Organ
181	0	64	19	Rotary Organ
182	0	65	19	Slow Rotary
183	0	66	19	Fast Rotary
184	0	0	20	Church Organ
185	0	32	20	Church Organ 3
186	0	35	20	Church Organ 2
187	0	40	20	Notre Dame
188	0	64	20	Organ Flute
189	0	65	20	Tremolo Organ Flute
190	0	0	21	Reed Organ
191	0	40	21	Puff Organ
192	0	0	22	Accordion
193	0	0	23	Harmonica
194	0	32	23	Harmonica 2
195	0	0	24	Tango Accordion
196	0	64	24	Tango Accordion 2
GUITAR				
197	0	0	25	Nylon Guitar
198	0	43	25	Velocity Guitar Harmonics
199	0	96	25	Ukulele
200	0	0	26	Steel Guitar
201	0	35	26	12-string Guitar
202	0	40	26	Nylon & Steel Guitar
203	0	41	26	Steel Guitar with Body Sound
204	0	96	26	Mandolin
205	0	0	27	Jazz Guitar
206	0	32	27	Jazz Amp
207	0	0	28	Clean Guitar
208	0	32	28	Chorus Guitar
209	0	0	29	Muted Guitar
210	0	40	29	Funk Guitar
211	0	41	29	Muted Steel Guitar
212	0	45	29	Jazz Man
213	0	0	30	Overdriven Guitar
214	0	43	30	Guitar Pinch
215	0	0	31	Distortion Guitar
216	0	40	31	Feedback Guitar
217	0	41	31	Feedback Guitar 2
218	0	0	32	Guitar Harmonics
219	0	65	32	Guitar Feedback

Appendix

Voice No.	Bank Select MSB (0–127)	LSB (0–127)	MIDI Program Change# (1–128)	Voice Name
220	0	66	32	Guitar Harmonics 2
BASS				
221	0	0	33	Acoustic Bass
222	0	40	33	Jazz Rhythm
223	0	45	33	Velocity Crossfade Upright Bass
224	0	0	34	Finger Bass
225	0	18	34	Finger Dark
226	0	40	34	Bass & Distorted Electric Guitar
227	0	43	34	Finger Slap Bass
228	0	45	34	Finger Bass 2
229	0	65	34	Modulated Bass
230	0	0	35	Pick Bass
231	0	28	35	Muted Pick Bass
232	0	0	36	Fretless Bass
233	0	32	36	Fretless Bass 2
234	0	33	36	Fretless Bass 3
235	0	34	36	Fretless Bass 4
236	0	0	37	Slap Bass 1
237	0	32	37	Punch Thumb Bass
238	0	0	38	Slap Bass 2
239	0	43	38	Velocity Switch Slap
240	0	0	39	Synth Bass 1
241	0	40	39	Techno Synth Bass
242	0	0	40	Synth Bass 2
243	0	6	40	Mellow Synth Bass
244	0	12	40	Sequenced Bass
245	0	18	40	Click Synth Bass
246	0	19	40	Synth Bass 2 Dark
*247	0	40	40	Modular Synth Bass
248	0	41	40	DX Bass
STRINGS				
249	0	0	41	Violin
250	0	8	41	Slow Violin
251	0	0	42	Viola
252	0	0	43	Cello
253	0	0	44	Contrabass
254	0	0	45	Tremolo Strings
255	0	8	45	Slow Tremolo Strings
256	0	40	45	Suspense Strings
257	0	0	46	Pizzicato Strings
258	0	0	47	Orchestral Harp
259	0	40	47	Yang Chin
260	0	0	48	Timpani
ENSEMBLE				
261	0	0	49	Strings 1
262	0	3	49	Stereo Strings
263	0	8	49	Slow Strings
264	0	35	49	60's Strings
265	0	40	49	Orchestra
266	0	41	49	Orchestra 2
267	0	42	49	Tremolo Orchestra
268	0	45	49	Velocity Strings
269	0	0	50	Strings 2
270	0	3	50	Stereo Slow Strings
271	0	8	50	Legato Strings
272	0	40	50	Warm Strings
273	0	41	50	Kingdom
274	0	0	51	Synth Strings 1
275	0	0	52	Synth Strings 2
276	0	0	53	Choir Aahs
277	0	3	53	Stereo Choir
278	0	32	53	Mellow Choir
279	0	40	53	Choir Strings
280	0	0	54	Voice Oohs
281	0	0	55	Synth Voice
282	0	40	55	Synth Voice 2
283	0	41	55	Choral
284	0	64	55	Analog Voice
285	0	0	56	Orchestra Hit
286	0	35	56	Orchestra Hit 2

Voice No.	Bank Select MSB (0–127)	LSB (0–127)	MIDI Program Change# (1–128)	Voice Name
287	0	64	56	Impact
BRASS				
288	0	0	57	Trumpet
289	0	32	57	Warm Trumpet
290	0	0	58	Trombone
291	0	18	58	Trombone 2
292	0	0	59	Tuba
293	0	0	60	Muted Trumpet
294	0	0	61	French Horn
295	0	6	61	French Horn Solo
296	0	32	61	French Horn 2
297	0	37	61	Horn Orchestra
298	0	0	62	Brass Section
299	0	35	62	Trumpet & Trombone Section
300	0	0	63	Synth Brass 1
301	0	20	63	Resonant Synth Brass
302	0	0	64	Synth Brass 2
303	0	18	64	Soft Brass
304	0	41	64	Choir Brass
REED				
305	0	0	65	Soprano Sax
306	0	0	66	Alto Sax
307	0	40	66	Sax Section
308	0	0	67	Tenor Sax
309	0	40	67	Breathy Tenor Sax
310	0	0	68	Baritone Sax
311	0	0	69	Oboe
312	0	0	70	English Horn
313	0	0	71	Bassoon
314	0	0	72	Clarinet
PIPE				
315	0	0	73	Piccolo
316	0	0	74	Flute
317	0	0	75	Recorder
318	0	0	76	Pan Flute
319	0	0	77	Blown Bottle
320	0	0	78	Shakuhachi
321	0	0	79	Whistle
322	0	0	80	Ocarina
SYNTH LEAD				
323	0	0	81	Square Lead
324	0	6	81	Square Lead 2
325	0	8	81	LM Square
326	0	18	81	Hollow
327	0	19	81	Shroud
328	0	64	81	Mellow
329	0	65	81	Solo Sine
330	0	66	81	Sine Lead
331	0	0	82	Sawtooth Lead
332	0	6	82	Sawtooth Lead 2
333	0	8	82	Thick Sawtooth
334	0	18	82	Dynamic Sawtooth
335	0	19	82	Digital Sawtooth
336	0	20	82	Big Lead
337	0	96	82	Sequenced Analog
338	0	0	83	Calliope Lead
339	0	65	83	Pure Lead
340	0	0	84	Chiff Lead
341	0	0	85	Charang Lead
342	0	64	85	Distorted Lead
343	0	0	86	Voice Lead
344	0	0	87	Fifths Lead
345	0	35	87	Big Five
346	0	0	88	Bass & Lead
347	0	16	88	Big & Low
348	0	64	88	Fat & Perky
349	0	65	88	Soft Whirl
SYNTH PAD				
350	0	0	89	New Age Pad
351	0	64	89	Fantasy

Appendix

Voice No.	Bank Select MSB (0–127)	Bank Select LSB (0–127)	MIDI Program Change# (1–128)	Voice Name
352	0	0	90	Warm Pad
353	0	0	91	Poly Synth Pad
354	0	0	92	Choir Pad
355	0	66	92	Itopia
356	0	0	93	Bowed Pad
357	0	0	94	Metallic Pad
358	0	0	95	Halo Pad
359	0	0	96	Sweep Pad
SYNTH EFFECTS				
360	0	0	97	Rain
361	0	65	97	African Wind
362	0	66	97	Carib
363	0	0	98	Sound Track
364	0	27	98	Prologue
365	0	0	99	Crystal
366	0	12	99	Synth Drum Comp
367	0	14	99	Popcorn
368	0	18	99	Tiny Bells
369	0	35	99	Round Glockenspiel
370	0	40	99	Glockenspiel Chimes
371	0	41	99	Clear Bells
372	0	42	99	Chorus Bells
373	0	65	99	Soft Crystal
374	0	70	99	Air Bells
375	0	71	99	Bell Harp
376	0	72	99	Gamelimba
377	0	0	100	Atmosphere
378	0	18	100	Warm Atmosphere
379	0	19	100	Hollow Release
380	0	40	100	Nylon Electric Piano
381	0	64	100	Nylon Harp
382	0	65	100	Harp Vox
383	0	66	100	Atmosphere Pad
384	0	0	101	Brightness
385	0	0	102	Goblins
386	0	64	102	Goblins Synth
387	0	65	102	Creeper
388	0	67	102	Ritual
389	0	68	102	To Heaven
390	0	70	102	Night
391	0	71	102	Glisten
392	0	96	102	Bell Choir
393	0	0	103	Echoes
394	0	0	104	Sci-Fi
WORLD				
395	0	0	105	Sitar
396	0	32	105	Detuned Sitar
397	0	35	105	Sitar 2
398	0	97	105	Tamboura
399	0	0	106	Banjo
400	0	28	106	Muted Banjo
401	0	96	106	Rabab
402	0	97	106	Gopichant
403	0	98	106	Oud
404	0	0	107	Shamisen
405	0	0	108	Koto
406	0	96	108	Taisho-kin
407	0	97	108	Kanoon
408	0	0	109	Kalimba
409	0	0	110	Bagpipe
410	0	0	111	Fiddle
411	0	0	112	Shanai
PERCUSSIVE				
412	0	0	113	Tinkle Bell
413	0	96	113	Bonang
414	0	97	113	Altair
415	0	98	113	Gamelan Gongs
416	0	99	113	Stereo Gamelan Gongs
417	0	100	113	Rama Cymbal
418	0	0	114	Agogo

Voice No.	Bank Select MSB (0–127)	Bank Select LSB (0–127)	MIDI Program Change# (1–128)	Voice Name
419	0	0	115	Steel Drums
420	0	97	115	Glass Percussion
421	0	98	115	Thai Bells
422	0	0	116	Woodblock
423	0	96	116	Castanets
424	0	0	117	Taiko Drum
425	0	96	117	Gran Cassa
426	0	0	118	Melodic Tom
427	0	64	118	Melodic Tom 2
428	0	65	118	Real Tom
429	0	66	118	Rock Tom
430	0	0	119	Synth Drum
431	0	64	119	Analog Tom
432	0	65	119	Electronic Percussion
433	0	0	120	Reverse Cymbal
SOUND EFFECTS				
434	0	0	121	Fret Noise
435	0	0	122	Breath Noise
436	0	0	123	Seashore
437	0	0	124	Bird Tweet
438	0	0	125	Telephone Ring
439	0	0	126	Helicopter
440	0	0	127	Applause
441	0	0	128	Gunshot
442	64	0	1	Cutting Noise
443	64	0	2	Cutting Noise 2
444	64	0	4	String Slap
445	64	0	17	Flute Key Click
446	64	0	33	Shower
447	64	0	34	Thunder
448	64	0	35	Wind
449	64	0	36	Stream
450	64	0	37	Bubble
451	64	0	38	Feed
452	64	0	49	Dog
453	64	0	50	Horse
454	64	0	51	Bird Tweet 2
455	64	0	56	Maou
456	64	0	65	Phone Call
457	64	0	66	Door Squeak
458	64	0	67	Door Slam
459	64	0	68	Scratch Cut
460	64	0	69	Scratch Split
461	64	0	70	Wind Chime
462	64	0	71	Telephone Ring 2
463	64	0	81	Car Engine Ignition
464	64	0	82	Car Tires Squeal
465	64	0	83	Car Passing
466	64	0	84	Car Crash
467	64	0	85	Siren
468	64	0	86	Train
469	64	0	87	Jet Plane
470	64	0	88	Starship
471	64	0	89	Burst
472	64	0	90	Roller Coaster
473	64	0	91	Submarine
474	64	0	97	Laugh
475	64	0	98	Scream
476	64	0	99	Punch
477	64	0	100	Heartbeat
478	64	0	101	Footsteps
479	64	0	113	Machine Gun
480	64	0	114	Laser Gun
481	64	0	115	Explosion
482	64	0	116	Firework

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

Appendix

Drum Kit List

- " [blank] " indicates that the drum sound is the same as "Standard Kit 1".
- Each percussion voice uses one note.
- The MIDI Note # and Note are actually one octave lower than keyboard Note # and Note. For example, in "109: Standard Kit 1", the "Seq Click H" (Note# 36/Note C1) corresponds to (Note# 24/Note C0).
- Key Off: Keys marked "O" stop sounding the instant they are released.
- Voices with the same Alternate Note Number (*1 … 4) cannot be played simultaneously. (They are designed to be played alternately with each other.)

Voice No.						109	110	111	112	113
MSB(0–127) / LSB(0–127) / PC(1–128)						127/0/1	127/0/2	127/0/9	127/0/17	127/0/25
Keyboard		MIDI		Key Off	Alternate Group	Standard Kit 1	Standard Kit 2	Room Kit	Rock Kit	Electronic Kit
Note#	Note	Note#	Note							
25	C# 0	13	C# -1		3	Surdo Mute				
26	D 0	14	D -1		3	Surdo Open				
27	D# 0	15	D# -1			Hi Q				
28	E 0	16	E -1			Whip Slap				
29	F 0	17	F -1		4	Scratch Push				
30	F# 0	18	F# -1		4	Scratch Pull				
31	G 0	19	G -1			Finger Snap				
32	G# 0	20	G# -1			Click Noise				
33	A 0	21	A -1			Metronome Click				
34	A# 0	22	A# -1			Metronome Bell				
35	B 0	23	B -1			Seq Click L				
36	C 1	24	C 0			Seq Click H				
37	C# 1	25	C# 0			Brush Tap				
38	D 1	26	D 0	O		Brush Swirl				
39	D# 1	27	D# 0			Brush Slap				
40	E 1	28	E 0	O		Brush Tap Swirl				Reverse Cymbal
41	F 1	29	F 0	O		Snare Roll				
42	F# 1	30	F# 0			Castanet				Hi Q 2
43	G 1	31	G 0			Snare H Soft	Snare H Soft 2		SD Rock H	Snare L
44	G# 1	32	G# 0			Sticks				
45	A 1	33	A 0			Bass Drum Soft				Bass Drum H
46	A# 1	34	A# 0			Open Rim Shot	Open Rim Shot 2			
47	B 1	35	B 0			Bass Drum Hard			Bass Drum H	BD Rock
48	C 2	36	C 1			Bass Drum	Bass Drum 2		BD Rock	BD Gate
49	C# 2	37	C# 1			Side Stick				
50	D 2	38	D 1			Snare M	Snare M 2	SD Room L	SD Rock L	SD Rock L
51	D# 2	39	D# 1			Hand Clap				
52	E 2	40	E 1			Snare H Hard	Snare H Hard 2	SD Room H	SD Rock Rim	SD Rock H
53	F 2	41	F 1			Floor Tom L		Room Tom 1	Rock Tom 1	E Tom 1
54	F# 2	42	F# 1		1	Hi-Hat Closed				
55	G 2	43	G 1			Floor Tom H		Room Tom 2	Rock Tom 2	E Tom 2
56	G# 2	44	G# 1		1	Hi-Hat Pedal				
57	A 2	45	A 1			Low Tom		Room Tom 3	Rock Tom 3	E Tom 3
58	A# 2	46	A# 1		1	Hi-Hat Open				
59	B 2	47	B 1			Mid Tom L		Room Tom 4	Rock Tom 4	E Tom 4
60	C 3	48	C 2			Mid Tom H		Room Tom 5	Rock Tom 5	E Tom 5
61	C# 3	49	C# 2			Crash Cymbal 1				
62	D 3	50	D 2			High Tom		Room Tom 6	Rock Tom 6	E Tom 6
63	D# 3	51	D# 2			Ride Cymbal 1				
64	E 3	52	E 2			Chinese Cymbal				
65	F 3	53	F 2			Ride Cymbal Cup				
66	F# 3	54	F# 2			Tambourine				
67	G 3	55	G 2			Splash Cymbal				
68	G# 3	56	G# 2			Cowbell				
69	A 3	57	A 2			Crash Cymbal 2				
70	A# 3	58	A# 2			Vibraslap				
71	B 3	59	B 2			Ride Cymbal 2				
72	C 4	60	C 3			Bongo H				
73	C# 4	61	C# 3			Bongo L				
74	D 4	62	D 3			Conga H Mute				
75	D# 4	63	D# 3			Conga H Open				
76	E 4	64	E 3			Conga L				
77	F 4	65	F 3			Timbale H				
78	F# 4	66	F# 3			Timbale L				
79	G 4	67	G 3			Agogo H				
80	G# 4	68	G# 3			Agogo L				
81	A 4	69	A 3			Cabasa				
82	A# 4	70	A# 3			Maracas				
83	B 4	71	B 3	O		Samba Whistle H				
84	C 5	72	C 4	O		Samba Whistle L				
85	C# 5	73	C# 4			Guiro Short				
86	D 5	74	D 4	O		Guiro Long				
87	D# 5	75	D# 4			Claves				
88	E 5	76	E 4			Wood Block H				
89	F 5	77	F 4			Wood Block L				
90	F# 5	78	F# 4			Cuica Mute				Scratch Push
91	G 5	79	G 4			Cuica Open				Scratch Pull
92	G# 5	80	G# 4		2	Triangle Mute				
93	A 5	81	A 4		2	Triangle Open				
94	A# 5	82	A# 4			Shaker				
95	B 5	83	B 4			Jingle Bell				
96	C 6	84	C 5			Bell Tree				
97	C# 6	85	C# 5							
98	D 6	86	D 5							
99	D# 6	87	D# 5							
100	E 6	88	E 5							
101	F 6	89	F 5							
102	F# 6	90	F# 5							
103	G 6	91	G 5							

Keyboard note markers (left side): C1, C#1, D1, D#1, E1, F1, F#1, G1, G#1, A1, A#1, B1, C2, C#2, D2, D#2, E2, F2, F#2, G2, G#2, A2, A#2, B2, C3, C#3, D3, D#3, E3, F3, F#3, G3, G#3, A3, A#3, B3, C4, C#4, D4, D#4, E4, F4, F#4, G4, G#4, A4, A#4, B4, C5, C#5, D5, D#5, E5, F5, F#5, G5, G#5, A5, A#5, B5, C6

Appendix

Note	114	115	116	117	118	119	120	121
	127/0/26	127/0/28	127/0/33	127/0/41	127/0/49	126/0/1	126/0/2	126/0/113
	Analog Kit	**Dance Kit**	**Jazz Kit**	**Brush Kit**	**Symphony Kit**	**SFX Kit 1**	**SFX Kit 2**	**Sound Effect Kit**
E1	Reverse Cymbal	Reverse Cymbal						
F1	Hi Q 2	Hi Q 2						Drum Loop
G1	SD Rock H	AnSD Snappy	SD Jazz H Light	Brush Slap L				
A1	Bass Drum H	AnBD Dance-1			Bass Drum L			
A#1		AnSD OpenRim						
B1	BD Analog L	AnBD Dance-2			Gran Cassa			
C2	BD Analog H	AnBD Dance-3	BD Jazz	BD Jazz	Gran Cassa Mute	Cutting Noise	Phone Call	Heartbeat
C#2	Analog Side Stick	Analog Side Stick				Cutting Noise 2	Door Squeak	Footsteps
D2	Analog Snare 1	AnSD Q	SD Jazz L	Brush Slap	Marching Sn M		Door Slam	Door Squeak
D#2						String Slap	Scratch Cut	Door Slam
E2	Analog Snare 2	AnSD Ana+Acoustic	SD Jazz M	Brush Tap	Marching Sn H		Scratch	Applause
F2	Analog Tom 1	Analog Tom 1	Jazz Tom 1	Brush Tom 1	Jazz Tom 1		Wind Chime	Camera
F#2	Analog HH Closed 1	Analog HH Closed 3					Telephone Ring 2	Horn
G2	Analog Tom 2	Analog Tom 2	Jazz Tom 2	Brush Tom 2	Jazz Tom 2			Hiccup
G#2	Analog HH Closed 2	Analog HH Closed 4						Cuckoo Clock
A2	Analog Tom 3	Analog Tom 3	Jazz Tom 3	Brush Tom 3	Jazz Tom 3			Stream
A#2	Analog HH Open	Analog HH Open 2						Frog
B2	Analog Tom 4	Analog Tom 4	Jazz Tom 4	Brush Tom 4	Jazz Tom 4			Rooster
C3	Analog Tom 5	Analog Tom 5	Jazz Tom 5	Brush Tom 5	Jazz Tom 5			Dog
C#3	Analog Cymbal	Analog Cymbal			Hand Cym. L			Cat
D3	Analog Tom 6	Analog Tom 6	Jazz Tom 6	Brush Tom 6	Jazz Tom 6			Owl
D#3					Hand Cym.Short L			Horse Gallop
E3						Flute Key Click	Car Engine Ignition	Horse Neigh
F3							Car Tires Squeal	Cow
F#3							Car Passing	Lion
G3							Car Crash	Scratch
G#3	Analog Cowbell	Analog Cowbell					Siren	Yo!
A3					Hand Cym. H		Train	Go!
A#3							Jet Plane	Get up!
B3					Hand Cym.Short H		Starship	Whoow!
C4							Burst	
C#4							Roller Coaster	
D4	Analog Conga H	Analog Conga H					Submarine	
D#4	Analog Conga M	Analog Conga M						
E4	Analog Conga L	Analog Conga L						
F4								Huuaah!
G#4						Shower	Laugh	
A4						Thunder	Scream	
A#4	Analog Maracas	Analog Maracas				Wind	Punch	
B4						Stream	Heartbeat	
C5						Bubble	Footsteps	
C#5						Feed		
D#5	Analog Claves	Analog Claves						
F5	Scratch Push	Scratch Push						Uh!+Hit
F#5	Scratch Pull	Scratch Pull						
C6						Dog	Machine Gun	
						Horse	Laser Gun	Applause 1
						Bird Tweet 2	Explosion	Applause 2
							Firework	Applause 3
								Applause 4
						Maou		

Appendix

Style List

Style No.	Style Name
8 Beat	
001	8BeatModern
002	60'sGtrPop
003	8BeatAdria
004	60's8Beat
005	8Beat
006	OffBeat
007	60'sRock
008	HardRock
009	RockShuffle
010	8BeatRock
16 Beat	
011	16Beat
012	PopShuffle
013	GuitarPop
014	16BtUptempo
015	KoolShuffle
016	HipHopLight
Ballad	
017	PianoBallad
018	LoveSong
019	6/8ModernEP
020	6/8SlowRock
021	OrganBallad
022	PopBallad
023	16BeatBallad
Dance	
024	EuroTrance
025	Ibiza
026	SwingHouse
027	Clubdance
028	ClubLatin
029	Garage1
030	Garage2
031	TechnoParty
032	UKPop
033	HipHopGroove
034	HipShuffle
035	HipHopPop
Disco	
036	70'sDisco
037	LatinDisco
038	SaturdayNight
039	DiscoHands

Style No.	Style Name
Swing & Jazz	
040	BigBandFast
041	BigBandBallad
042	JazzClub
043	Swing1
044	Swing2
045	Five/Four
046	Dixieland
047	Ragtime
R & B	
048	Soul
049	DetroitPop
050	6/8Soul
051	CrocoTwist
052	Rock&Roll
053	ComboBoogie
054	6/8Blues
Country	
055	CountryPop
056	CountrySwing
057	Country2/4
058	Bluegrass
Latin	
059	BrazilianSamba
060	BossaNova
061	Forro
062	Tijuana
063	Mambo
064	Salsa
065	Beguine
066	Reggae
Ballroom	
067	VienneseWaltz
068	EnglishWaltz
069	Slowfox
070	Foxtrot
071	Quickstep
072	Tango
073	Pasodoble
074	Samba
075	ChaChaCha
076	Rumba
077	Jive

Style No.	Style Name
Trad&World	
078	USMarch
079	6/8March
080	GermanMarch
081	PolkaPop
082	OberPolka
083	Tarantella
084	Showtune
085	ChristmasSwing
086	ChristmasWaltz
087	ScottishReel
Waltz	
088	SwingWaltz
089	JazzWaltz
090	CountryWaltz
091	OberWalzer
092	Musette
Children	
093	Learning2/4
094	Learning4/4
095	Learning6/8
096	Fun 3/4
097	Fun 4/4
Pianist	
098	Stride
099	PianoSwing
100	PianoBoogie
101	Arpeggio
102	Habanera
103	SlowRock
104	8BeatPianoBallad
105	6/8PianoMarch
106	PianoWaltz

Appendix

Music Database List

MDB No.	MDB Name	MDB No.	MDB Name	MDB No.	MDB Name
POP		**R & B**		77	MuchoTrp
1	AlvFever	39	AmazingG	78	Sunshine
2	DayPdise	40	BoogiePf	79	Tico Org
3	GoMyWay	41	Clock Rk	80	TrbWave
4	HowDeep!	42	CU later	**COUNTRY**	
5	HurryLuv	43	HappyDay	81	BoxerFlt
6	Imagine	44	RisingSn	82	CntryRds
7	JustCall	45	ShookUp	83	Jambala
8	SultanSw	46	TeddyBer	84	TopWorld
9	WhitePle	**SWING & JAZZ**		85	YlwRose
10	YesterPf	47	ChooChoo	**BALLROOM**	
ROCK		48	HighMoon	86	BrazilBr
11	JumpRock	49	InMood	87	CherryTp
12	PickUpPc	50	MistySax	88	DanubeWv
13	RdRiverR	51	MoonLit	89	TangoAc
14	SatsfyGt	52	New York	90	Tea4Two
15	Sheriff	53	SaintMch	**TRADITIONAL**	
16	SmokeWtr	54	ShearJz	91	CampRace
17	TwistAgn	55	TstHoney	92	CielPari
18	VenusPop	56	USPatrol	93	GrndClok
DANCE		**EASY LISTENING**		94	JinglBel
19	2 of Us	57	Close2U	95	MickMrch
20	B Leave	58	Entrtain	96	Showbiz
21	Back St	59	LuvStory	97	StarMrch
22	Crockett	60	MyPrince	98	WashPost
23	FunkyTwn	61	PupetStr	99	XmasWalz
24	KillSoft	62	Raindrop	100	YankDood
25	Nine PM	63	R'ticGtr		
26	SingBack	64	SingRain		
27	StrandD	65	SmallWld		
BALLAD		66	SpkSoft		
28	AdelineB	67	StrangeN		
29	CatMemry	68	TimeGoes		
30	ElvGhett	69	WhteXmas		
31	Feeling	70	WishStar		
32	Mn Rivr	71	WondrWld		
33	OnMyMnd	**LATIN**			
34	OverRbow	72	BambaLa		
35	ReleseMe	73	BeHappy!		
36	SavingLv	74	CopaLola		
37	SmokyEye	75	DayNight		
38	WhisprSx	76	Ipanema		

Appendix

Song List

Top Picks
These demonstration songs showcase the various sounds of the instrument.

Learn to Play
Each of these songs has two variations: an easy one which even beginners can practice with ease, and another more challenging version.

Favorite
We've collected various folk songs from around the world which have been handed down from through the generations, as well as famous classical pieces. Try playing the melody of these songs with your right hand.

Favorite with Style
Enjoy performing a piece with Style accompaniment (automatic accompaniment data). (Keys to Success is designed so that you master playing the melody with your right hand first, and then learn the roots of the chords with your left hand.)

Instrument Master
These songs feature solo instruments other than piano—letting you enjoy playing other instrumental voices along with orchestral accompaniment.

Piano Repertoire
These included famous pieces from around the world along with well-known piano pieces. Enjoy the beautiful, resonant piano sound as you play solo or along with orchestral backing.

No.	Song Name	No.	Song Name	No.	Song Name
	Top Picks	034	Greensleeves (Traditional)	070	Down by the Riverside (Traditional)
001	Demo 1 (Yamaha Original)	035	Kalinka (Traditional)		**Instrument Master**
002	Demo 2 (Yamaha Original)	036	Holdilia Cook (Traditional)	071	Sicilienne/Fauré (G. Fauré)
003	Demo 3 (Yamaha Original)	037	Ring de Banjo (S. C. Foster)	072	Swan Lake (P. I. Tchaikovsky)
	Learn to Play	038	La Cucaracha (Traditional)	073	Grand March (Aida) (G. Verdi)
004	Für Elise (Basic) (L. v. Beethoven)	039	Funiculi Funicula (L. Denza)	074	Serenade for Strings in C major, Op.48 (P. I. Tchaikovsky)
005	Für Elise (Advanced) (L. v. Beethoven)	040	Largo (From the New World) (A. Dvořák)	075	Pizzicato Polka (J. Strauss II)
006	Twinkle Twinkle Little Star (Basic) (Traditional)	041	Brahms' Lullaby (J. Brahms)	076	Romance de Amor (Traditional)
007	Twinkle Twinkle Little Star (Advanced) (Traditional)	042	Liebesträume Nr.3 (F. Liszt)	077	Menuett BWV. Anh.114 (J. S. Bach)
008	Turkish March (Basic) (W.A. Mozart)	043	Pomp and Circumstance (E. Elgar)	078	Ave Verum Corpus (W. A. Mozart)
009	Turkish March (Advanced) (W.A. Mozart)	044	Chanson du Toreador (G. Bizet)	079	Radetzky Marsch (J. Strauss I)
010	Ode to Joy (Basic) (L. v. Beethoven)	045	Jupiter, the Bringer of Jollity (G. Holst)		**Piano Repertoire**
011	Ode to Joy (Advanced) (L. v. Beethoven)	046	The Polovetsian Dances (A. Borodin)	080	Wenn ich ein Vöglein wär (Traditional)
012	The Entertainer (Basic) (S. Joplin)	047	Die Moldau (B. Smetana)	081	Die Lorelei (F. Silcher)
013	The Entertainer (Advanced) (S. Joplin)	048	Salut d'Amour Op.12 (E. Elgar)	082	Home Sweet Home (H. R. Bishop)
014	Londonderry Air (Basic) (Traditional)	049	Humoresques (A. Dvořák)	083	Scarborough Fair (Traditional)
015	Londonderry Air (Advanced) (Traditional)	050	Symphony No.9 (from the New World - 4th movement) (A. Dvořák)	084	My Old Kentucky Home (Traditional)
016	The Last Rose of Summer (Basic) (Traditional)		**Favorite with Style**	085	Loch Lomond (Traditional)
017	The Last Rose of Summer (Advanced) (Traditional)	051	O du lieber Augustin (Traditional)	086	Silent Night (F. Gruber)
018	Amazing Grace (Basic) (Traditional)	052	Mary Had a Little Lamb (Traditional)	087	Deck the Halls (Traditional)
019	Amazing Grace (Advanced) (Traditional)	053	When Irish Eyes Are Smiling (E. R. Ball)	088	O Christmas Tree (Traditional)
	Favorite	054	Little Brown Jug (Traditional)	089	Sonata Pathétique 2nd Adagio Cantabile (L. v. Beethoven)
020	Frère Jacques (Traditional)	055	Ten Little Indians (Traditional)	090	Ave Maria/J. S. Bach - Gounod (J. S. Bach / C. F. Gounod)
021	Der Froschgesang (Traditional)	056	On Top of Old Smoky (Traditional)	091	Jesus bleibet meine Freude (J. S. Bach)
022	Aura Lee (Traditional)	057	My Darling Clementine (Traditional)	092	Prelude Op.28-15 "Raindrop" (F. Chopin)
023	London Bridge (Traditional)	058	Oh! Susanna (S. C. Foster)	093	Nocturne op.9-2 (F. Chopin)
024	Sur le pont d'Avignon (Traditional)	059	Red River Valley (Traditional)	094	Etude op.10-3 "Chanson de L'adieu" (F. Chopin)
025	Nedelka (Traditional)	060	Turkey in the Straw (Traditional)	095	Romanze (Serenade K.525) (W. A. Mozart)
026	Aloha Oe (Q. Liliuokalani)	061	Muffin Man (R. A. King)	096	Arabesque (J. F. Burgmüller)
027	Sippin' Cider Through a Straw (Traditional)	062	Pop Goes the Weasel (Traditional)	097	La Chevaleresque (J. F. Burgmüller)
028	Old Folks at Home (S. C. Foster)	063	Grandfather's Clock (H. C. Work)	098	Für Elise (L. v. Beethoven)
029	Bury Me Not on the Lone Prairie (Traditional)	064	Camptown Races (S. C. Foster)	099	Turkish March (W.A. Mozart)
030	Cielito Lindo (Traditional)	065	When the Saints Go Marching In (Traditional)	100	24 Preludes op.28-7 (F. Chopin)
031	Santa Lucia (A. Longo)	066	Yankee Doodle (Traditional)	101	Annie Laurie (Traditional)
032	If You're Happy and You Know It (Traditional)	067	Battle Hymn of the Republic (Traditional)	102	Jeanie with the Light Brown Hair (S. C. Foster)
033	Beautiful Dreamer (S. C. Foster)	068	I've Been Working on the Railroad (Traditional)		
		069	American Patrol (F. W. Meacham)		

- Some songs have been edited for length or for ease in learning, and may not be exactly the same as the original.
- A song book (free downloadable scores) is available that includes scores for all internal songs (excepting Songs 1–3). To obtain the Song Book, complete the user registration at the following website.
  http://music.yamaha.com/registration/

Appendix

Effect Type List

● **Harmony Types**

No.	Harmony Type	Description
01	Duet	If you want to sound one of the harmony types 01–05, play keys to the right side of the Split Point while playing chords in the left side of the keyboard after turning Auto Accompaniment on. One, two or three notes of harmony are automatically added to the note you play. When playing back a Song that includes chord data, harmony is applied whichever keys are played.
02	Trio	
03	Block	
04	Country	
05	Octave	
06	Trill 1/4 note	If you keep holding down two different notes, the notes alternate (in a trill) continuously.
07	Trill 1/6 note	
08	Trill 1/8 note	
09	Trill 1/12 note	
10	Trill 1/16 note	
11	Trill 1/24 note	
12	Trill 1/32 note	
13	Tremolo 1/4 note	If you keep holding down a single note, the note is repeated continuously. (The repeat speed differs depending on the selected type.)
14	Tremolo 1/6 note	
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	If you keep holding down a note, echo is applied to the note played. (The echo speed differs depending on the selected type.)
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	

● **Reverb Types**

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

● **Chorus Types**

No.	Chorus Type	Description
1–2	Chorus 1–2	Conventional chorus program with rich, warm chorusing.
3–4	Flanger 1–2	This produces a rich, animated wavering effect in the sound.
5	Off	No effect.

Specifications

Keyboards
- 61 standard-size keys (C1–C6), with Touch Response

Display
- LCD display (backlit)

Setup
- STANDBY/ON
- MASTER VOLUME: MIN–MAX

Panel Controls
- [L]/[REC TRACK 2], [R]/[REC TRACK 1],
  [1 LISTENING 2 TIMING 3 WAITING], [KEYS TO SUCCESS],
  [PHRASE REPEAT], [A-B REPEAT]/[ACMP ON/OFF], [REW]/
  [INTRO/ENDING/rit.], [FF]/[[MAIN/AUTO FILL], [TEMPO/TAP],
  [REC], [PAUSE]/[SYNC START], [START/STOP], [SONG],
  [STYLE], [VOICE], [FUNCTION], [PORTABLE GRAND], [MUSIC
  DATABASE], [REVERB], [DEMO], [METRONOME], [SPLIT],
  [DUAL], [HARMONY], [TOUCH], number buttons [0]–[9],
  [+/ YES], [-/ NO]

Voice
- 108 panel voices + 12 drum kits + 1 sound effect kit +
  359 XGlite voices + 2 XGlite optional voices
- Polyphony: 32
- DUAL
- SPLIT

Style
- 106 preset Styles + flash memory
- Style Control:
  ACMP ON/OFF, SYNC START, START/STOP,
  INTRO/ENDING/rit., MAIN/AUTO FILL
- Fingering: Multi fingering
- Style Volume
- Style Register

Education Feature
- Chord Dictionary
- KEYS TO SUCCESS
- 1 LISTENING, 2 TIMING, 3 WAITING
- Phrase Repeat

Function
- Style Volume, Song Volume, Transpose, Tuning, Split Point,
  Touch Sensitivity, Style Register, Main voice (Volume, Octave,
  Chorus Send Level), Dual voice (Voice, Volume, Octave, Chorus
  Send Level), Split voice (Voice, Volume, Octave, Chorus Send
  Level), Reverb Type, Reverb level, Chorus Type, Panel Sustain,
  Harmony Type, Harmony Volume, PC mode (PC1/PC2/Off),
  Local On/Off, External Clock, Initial Setup Send, Time Signature
  (Numerator, Denominator), Metronome Volume, Lesson Track
  (R), Lesson Track (L),
  Demo Cancel

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

Song
- 102 Preset Songs + 5 User Songs + Flash Memory
- Song Clear
- Song Volume

Music Database
- 100

Recording
- Song
  User Song: 5 Songs
  Recording Tracks: 1, 2

MIDI
- Local On/Off
- Initial Setup Send
- External Clock
- PC mode

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

Amplifier
- 2.5W + 2.5W

Speakers
- 12cm x 2

Power Consumption
- 10W (When using PA-130 power adaptor)

Power Supply
- Adaptor: Yamaha PA-130 or an equivalent
- Batteries: Six "AA" size, LR6 or equivalent batteries

Dimensions (W x D x H)
- 945 x 369 x 132 mm
  (37-3/16" x 14-1/2" x 5-3/16")

Weight
- 4.9kg (10 lbs. 13 oz.) (not including batteries)

Supplied Accessories
- Music Rest
- Owner's Manual
- My Yamaha Product User Registration

Optional Accessories
- AC Power Adaptor: Yamaha PA-130 or an equivalent
- USB-MIDI Interface: UX16
- Footswitch: FC4/FC5
- Keyboard Stand: L-2C/L-2L
- Headphones: HPE-150/HPE-30

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* 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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Appendix

Appendix

Limited Warranty

90 DAYS LABOR   **1 YEAR PARTS**

Yamaha Corporation of America, hereafter referred to as Yamaha, warrants to the original consumer of a product included in the categories listed below, that the product will be free of defects in materials and/or workmanship for the periods indicated. This warranty is applicable to all models included in the following series of products:

PSR, YPT SERIES OF DIGITAL KEYBOARDS

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

If parts should be required after this 90 day period but within the one year period that immediately follows the purchase date, Yamaha will, subject to the terms of this warranty, supply these parts without charge. However, charges for labor, and/or any miscellaneous expenses incurred are the consumers responsibility. Yamaha reserves the right to utilize reconditioned parts in repairing these products and/or to use reconditioned units as warranty replacements.

THIS WARRANTY IS THE ONLY EXPRESS WARRANTY WHICH YAMAHA MAKES IN CONNECTION WITH THESE PRODUCTS. ANY IMPLIED WARRANTY APPLICABLE TO THE PRODUCT, INCLUDING THE WARRANTY OF MERCHANT ABILITY IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY. YAMAHA EXCLUDES AND SHALL NOT BE LIABLE IN ANY EVENT FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Some states do not allow limitations that relate to implied warranties and/or the exclusion of incidental or consequential damages. Therefore, these limitations and exclusions may not apply to you.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

CONSUMERS RESPONSIBILITIES

If warranty service should be required, it is necessary that the consumer assume certain responsibilities:

1. Contact the Customer Service Department of the retailer selling the product, or any retail outlet authorized by Yamaha to sell the product for assistance. You may also contact Yamaha directly at the address provided below.

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 representative or the authorized distributor listed below.

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

Die Einzelheiten zu Produkten sind bei Ihrer unten aufgeführten Niederlassung und bei Yamaha Vertragshändlern in den jeweiligen Bestimmungsländern erhältlich.

Para detalles sobre productos, contacte su tienda Yamaha más cercana o el distribuidor autorizado que se lista debajo.

NORTH AMERICA

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135 Milner Avenue, Scarborough, Ontario,
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U.S.A.
Yamaha Corporation of America
6600 Orangethorpe Ave., Buena Park, Calif. 90620,
U.S.A.
Tel: 714-522-9011

CENTRAL & SOUTH AMERICA

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Yamaha de México S.A. de C.V.
Calz. Javier Rojo Gómez #1149,
Col. Guadalupe del Moral
C.P. 09300, México, D.F., México
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Yamaha Musical do Brasil Ltda.
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