

Chapter 5

Using Floppy Disks

Disklavier songs are stored on 3.5 inch MS-DOS 720 Kbyte format 2DD floppy disks and MS-DOS 1.44 Mbyte format 2HD floppy disks. These disks are reasonably robust, but some rules must be applied when using them. See “Handling Floppy Disks” below for details.

Handling Floppy Disks

Do not touch the surface of a disk.

Do not store or place disks near a television, radio, loudspeaker, or any other device that generates a magnetic field.

Do not expose disks to extremes of temperature or humidity. The working temperature range for disks is between 4°C and 52°C (40°F to 125°F).

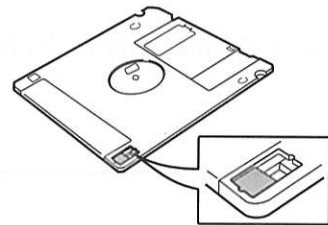
Do not use disks in a dusty, dirty or smoky environment.

Remove the disk before you turn off the Disklavier.

Accidental Erasure Protection

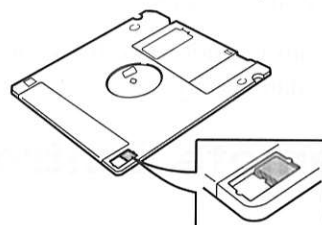
Floppy disks have an erasure protection tab which can be set so that the Disklavier cannot record new data onto the disk. This is useful for protecting valuable song data against accidental erasure and disk formatting. The protection tab is located on the reverse side of the disk, in the bottom right-hand corner.

With the tab window open, data is protected.



Protected

With the tab window closed, data is unprotected.

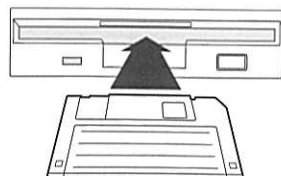


Unprotected

Inserting & Ejecting Floppy Disks

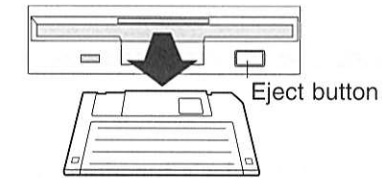
Inserting

Carefully insert the disk into the disk drive — shutter first, label side up, as shown. Push it until it clicks into place and the Eject button pops out.



Ejecting

To eject a disk, press the Eject button.



The disk will pop out. Remove the disk and return it to its case.

Note: Do not eject a disk during playback, recording, or when the message “WRITING TO DISK” is shown on the display and the RECORD indicator is flashing. Doing so could seriously damage the disk drive and the floppy disk.

Chapter 6

Display (LCD)

To eject a disk, press the Eject button.

The display (LCD) is used in conjunction with most of the Disklavier's functions. This chapter describes some of the frequently displayed indications.

Various Displays

Song Number

The number of the currently selected song is displayed in two large digits.

Song number



Disk Title

When a PianoSoft disk or a floppy disk that you have titled yourself is first inserted into the disk drive, or when the Disklavier is switched on with such a disk already in the disk drive, the disk title scrolls across the display. When the Disklavier is switched on without a floppy disk in the disk drive, the title of the Memory Disk, if titled, scrolls across the display.

Song Title

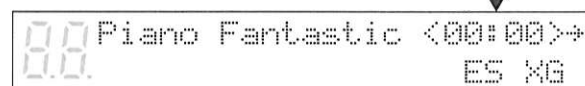
When the disk title has finished scrolling, the title of the first song on the disk appears. As different songs are selected, the corresponding song number and song title appear.

Time Display

Playing time is indicated in one of two formats:

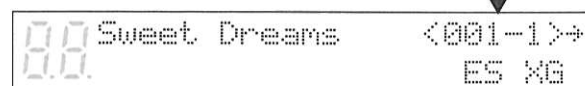
Minutes and seconds, as shown below,

Minutes and seconds display



or **Measures and beats**, as shown below.

Measures and beats display



When the time display format is measures and beats, the tempo of the song is also shown on the display in beats per minute (bpm).

All PianoSoft disks use the minutes and seconds format. Songs that you record yourself will use the minutes and seconds format unless you use the metronome for recording, in which case the measures

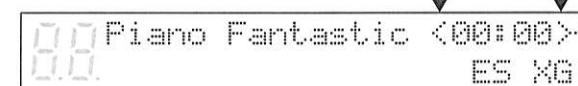
and beats format is used. Songs recorded with the measures and beats format can be converted to the minutes and seconds format. See "Changing the Song Time Display" on page 54 of the *Advanced Operation Manual*.

Pedal Data

Songs supplied on PianoSoft disks may contain one of two types of Pedal data: on/off pedal data or continuous pedal data (half pedal).

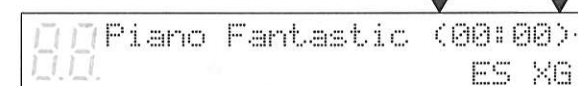
On/off pedal data turns the pedals on and off. It is indicated by angle brackets (< >) around the time display as shown below.

Angle brackets indicating on/off pedal data



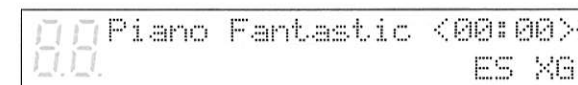
Continuous pedal data (half pedal) is indicated by parentheses (()) around the time display as shown below. (In normal mode, songs containing continuous pedal data are played back as on/off pedal data.)

Parentheses indicating continuous pedal data (half pedal)



Song Format

There are a couple of general formats in which song data is stored on disks. The song format of the selected song is indicated on the display as ES, S0 or S1. See Chapter 7 "Song and Disk Formats and Compatibility" in the *Advanced Operation Manual*.

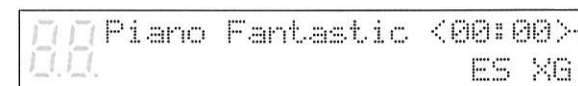


Song format

Symbol	Song format
ES	E-SEQ format
S0	SMF format 0
S1	SMF format 1

Tone Generator

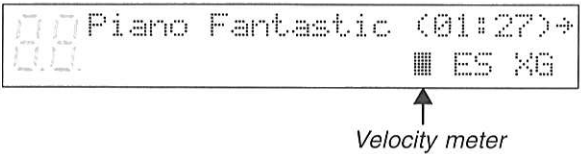
The tone generator mode used by the selected song is indicated on the display: XG or GM. If the song uses the Disklavier's internal XG tone generator, the display will indicate XG. This display is replaced by the tempo display when tempo is being adjusted.



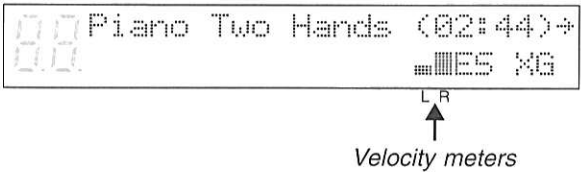
Tone generator mode

Piano Data Velocity Meters

The velocity of the piano part notes as they are played back is indicated on the display, as shown below.

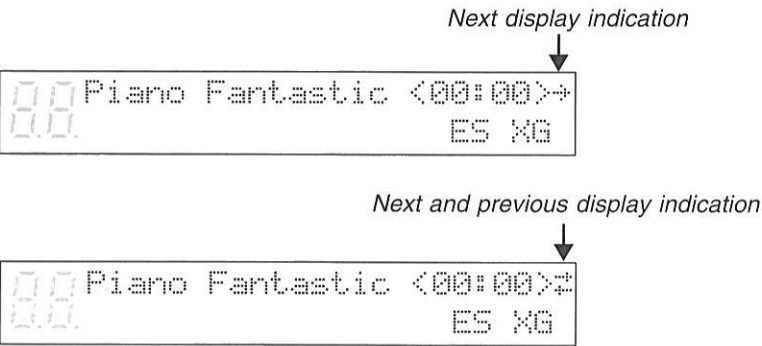


For L/R and Ensemble songs, two meters will appear, one for the left-hand part and one for the right-hand part, as shown below.



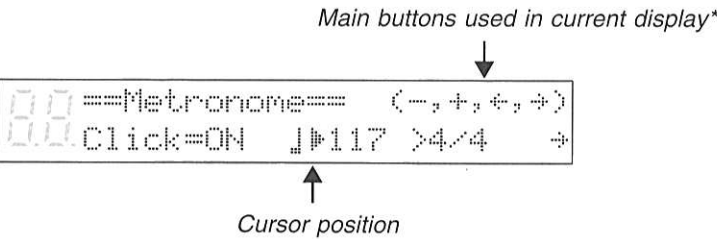
Previous/Next Display Indications

Arrows that appear on the far right of a display indicate that there is a relevant display before or after the current one. You can go to the previous or next display using the buttons.



Cursor

The cursor indicates the currently selected parameter.



* In this case, the buttons and the buttons are used to set the parameters in this display.

Chapter 7

Basic Playback

Disklavier playback functions can be used with all PianoSoft and PianoSoft-Plus disks or custom recordings stored on floppy disks or the Memory Disk.

If you are using the Disklavier for the very first time, you can use the enclosed Disklavier Sample Disk. A very short sample song is also stored in the Memory Disk for testing purposes.

Note: To play back a song stored in the Memory Disk, make sure there is no floppy disk inserted. If a disk is inserted, the Disklavier will play back the songs on the floppy disk. For more information on the Memory Disk, see Chapter 1 "Using the Memory Disk and Floppy Disks for Recording" in the *Advanced Operation Manual*.

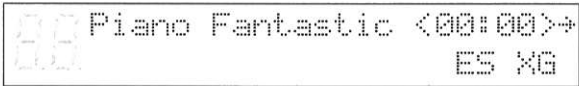
Starting Playback

1

Insert your song disk into the disk drive, as necessary.

To play back a song on the Memory Disk, do not insert a song disk. Proceed to step 2.

If the inserted disk is a PianoSoft disk or a titled floppy disk, the disk title scrolls across the display. When the disk title has finished scrolling, the number and title of the first song on the disk appear.



Pressing the [STOP] button will stop the disk title scrolling and the number and title of the first song on the disk will appear instantly.

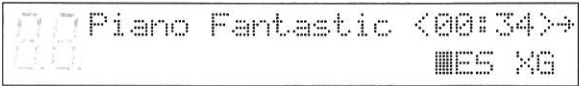
Note: The disk drive may occasionally produce a sound when the disk begins to spin. This is the normal sound of the disk drive starting to read or write to the disk; it does not indicate that there is anything wrong with the disk or disk drive.

2

To start playback, press the [PLAY/PAUSE] button.

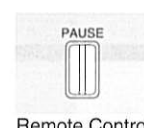
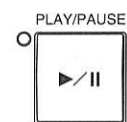


The PLAY/PAUSE indicator lights and song No.1 starts playing. The time display starts counting up and the velocity meters show the velocity of the piano part notes currently being played, as shown.



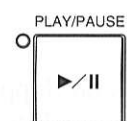
Pausing Playback

- 1 To pause playback, press the [PLAY/PAUSE] button.



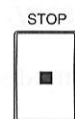
Playback stops and the PLAY/PAUSE indicator flashes.

- 2 Press the [PLAY/PAUSE] button again to restart playback.



Stopping Playback

- 1 To stop playback, press the [STOP] button.

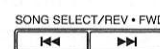


Playback stops and the song returns to the beginning.

Pressing the [STOP] button while in Pause mode cancels Pause mode.

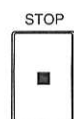
Selecting Songs with the Control Unit

- 1 To select the next song, stop playback, then press the [SONG SELECT ►►] button.



To select other songs on the disks, press and hold down the [SONG SELECT ►►] button until the number of the desired song appears.

- 2 To select the previous song, stop playback, then press the [SONG SELECT ◄◄] button.



If the current song is the first song on the disk, pressing the [SONG SELECT ◄◄] button causes the disk title to scroll across the display. To stop the title scrolling, press the [STOP] button.

Selecting Songs with the Remote Control

Songs can be selected at any time using the remote control's [SONG SELECT] buttons or number pad.

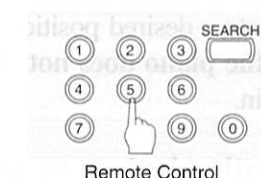
Using the [SONG SELECT] Buttons

- 1 Press the [SONG SELECT ◄◄] button to select the previous song. Press the [SONG SELECT ►►] button to select the next song.



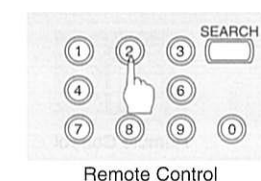
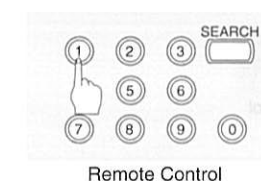
Direct Selection Using the Number Pad

- 1 To select a song from 1 to 9, press the corresponding number button.



To select song number 5 for example, simply press button [5].

- 2 To select a song numbered 10 and above, enter the first digit, then within 2 seconds, enter the second digit.



To select song number 12 for example, press button [1], then press button [2].

If a song number higher than that of the last song on the disk is entered, the last song on the disk is selected.

Fast Preview & Review

During playback, Fast Preview and Review allow you to quickly search through a song **with the piano still playing**. This is useful for locating a desired position within a song.

- 1a To preview, press the [SONG SELECT ►►] button.



- 1b** To review, press the [SONG SELECT ◀◀] button.



Remote Control

- 2** To continue normal playback, press the [PLAY/PAUSE] button.
To engage Pause mode, press the [STOP] button.

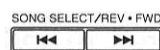
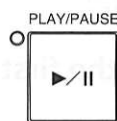
If a song is reviewed all the way back to the beginning, Pause mode is engaged. Pressing [PLAY/PAUSE] starts playback.

If a song is previewed all the way to the end, Pause mode is engaged. Pressing [PLAY/PAUSE] starts playback of the next song.

Fast Forward & Reverse

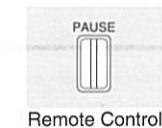
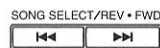
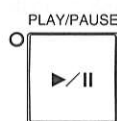
In Pause mode, fast forward and reverse allow you to quickly locate a desired position in a song. Fast Forward and Reverse search faster than preview and review and **the piano does not play**. Reverse can also be used to return a song back to the beginning, ready to play again.

- 1a** To fast forward the song that is currently playing, press the [PLAY/PAUSE] button to engage Pause mode, then press the [SONG SELECT ▶▶] button.



Remote Control

- 1b** To reverse the song that is currently playing, press the [PLAY/PAUSE] button to engage Pause mode, then press the [SONG SELECT ◀◀] button.



Remote Control

The PLAY/PAUSE indicator flashes quickly and the time display shows the current position.

- 2** To continue normal playback, press the [PLAY/PAUSE] button.
To engage Pause mode, press the [STOP] button.

If a song is fast forward all the way to the end, Pause mode is engaged. Pressing [PLAY/PAUSE] starts playback of the next song.

If a song is reversed all the way back to the beginning, Pause mode is engaged. Pressing [PLAY/PAUSE] starts playback.

Adjusting the Volume

The playback volume can be adjusted as desired. All songs are recorded at the maximum volume (level setting of 0), so the volume level can be decreased only down to -10.

The LED volume level indicators show volume levels from -10 to 0 in the method shown below. For example, when two consecutive indicators are lit, the volume level is between these two levels.

		LED					
Volume		-10	-8	-6	-4	-2	0
0		○	○	○	○	○	●
-1		○	○	○	○	●	●
-2		○	○	○	○	○	○
-2		○	○	○	○	○	○
-4		○	○	○	○	○	○
-4		○	○	○	○	○	○
-5		○	○	○	○	○	○

		LED					
Volume		-10	-8	-6	-4	-2	0
-6		○	○	○	○	○	○
-7		○	○	○	○	○	○
-8		○	○	○	○	○	○
-9		○	○	○	○	○	○
-10		○	○	○	○	○	○

Soft mode*
(in normal mode)

The volume level setting is remembered when another song is selected, another disk inserted, and when the Disklavier is switched off.

Note: This setting does not affect manual playing.
For Ensemble songs, the [-/NO][+/YES] buttons control the piano and internal XG tone generator simultaneously. See “Balancing the Ensemble Volume (TG Master Balance)” on the next page.

* Soft Mode

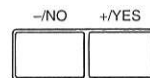
In normal mode, volume setting in the range -7 to -10 will extend the soft pedal mechanism to greatly reduce the volume. This is called “soft mode.”

Note: “Soft mode” causes the keyboard to become uneven in some places, making it unfit for playing.

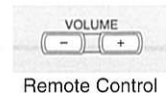
Note: When you want to stop playing back songs in “soft mode” and play the piano, be sure to power off the Disklavier by first switching off the Control Unit before switching off the MAINS switch. Otherwise, soft mode will not be released properly, causing the keyboard to become uneven and the piano action unfit for playing. (See “Power Off Procedure” on page 15.)

Note: You may hear a small hum from the motor when soft mode is engaged and disengaged. This does not indicate that there is anything wrong with the Disklavier.

- 1a** Make sure that the **VOLUME** indicator is lit. If it isn't, press the **Selector** button until the **VOLUME** indicator lights. Then use the **[-/NO]** **[+/YES]** buttons to adjust the volume.



- 1b** On the remote control, use the **[VOLUME]** buttons to adjust the volume.



The **[-]** button decreases the volume, and the **[+]** button increases the volume.

Balancing the Ensemble Volume (TG Master Balance)

When playing back Ensemble songs, it is useful to be able to balance the volume levels of the piano and Ensemble voices. In other words, the volume of the instrumental voices coming from the internal XG tone generator should not be too loud or too quiet compared to the piano played by the Disklavier.

There are two ways you can do this. One is to adjust the volume of the internal XG tone generator using the volume control on the connected speaker system. Another way is to use the TG Master Balance function explained below. Once you adjust the volume using the TG Master Balance function, you can conveniently increase or decrease the overall volume in a normal fashion.

Balance settings are stored in the Control Unit. They are remembered even when the Disklavier is switched off.

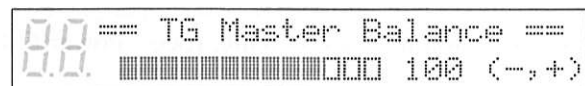
Note: To use the TG Master Balance function, be sure to set the speaker volume to an appropriately audible level.

- 1** Play an Ensemble song.

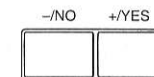
- 2** Press the **Selector** button until the **BALANCE** indicator lights.



The following display appears.



- 3** Use the **[-/NO]** **[+/YES]** buttons to adjust the volume of the internal XG tone generator.



The TG Master balance can be adjusted from 10 to 127 or OFF (OFF: do not link with the internal XG tone generator). This setting is shown in the display on the right of the bar graph.

Adjust the level so that the Ensemble voices, played by the internal XG tone generator, are balanced with the volume of the Disklavier piano.

When TG Master Balance is set to OFF, the volume of the internal XG tone generator will be fixed and will not link with the volume of the Disklavier piano.

- 4** Press the **Selector** button until the **VOLUME** indicator lights.

The volume levels of the piano and Ensemble voices are now balanced. You can use the **[-/NO]** **[+/YES]** buttons or the **[VOLUME]** button on the remote control to increase or decrease the overall volume.

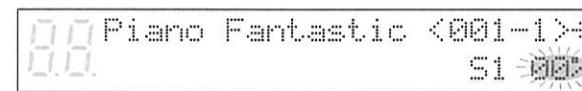
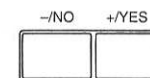
Changing the Tempo

You can speed up or slow down the playback tempo. Slowing down the playback tempo can be useful when practicing a difficult piano part.

These tempo settings remain in effect until recording is started, the disk is ejected, or the Disklavier is switched off.

→ Tempo changes to songs that you have recorded yourself can be made permanent. See "Changing the Default Song Tempo" on page 11 of the *Advanced Operation Manual*.

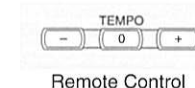
- 1a** Press the **Selector** button until the **TEMPO** indicator lights. Then use the **[-/NO]** **[+/YES]** buttons to adjust the tempo.



Flashes

The playback tempo can be adjusted from -50% to +20% in 1% steps.

- 1b** On the remote control, use the **[TEMPO]** buttons to adjust the tempo.



The [-] button decreases the tempo, and the [+] button increases the tempo. The [0] button resets the tempo to 00%.

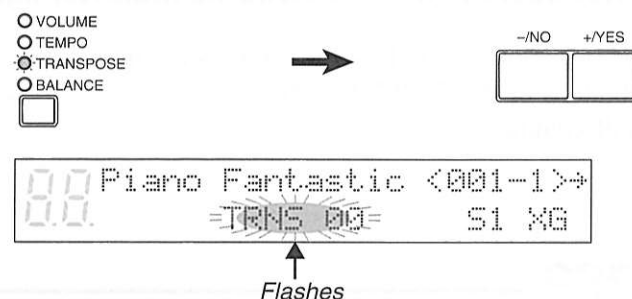
Once the tempo has been changed, the new tempo value will be shown continuously on the display.

Transposing a Song

Playback can be transposed up or down by up to two octaves. This is useful when a singer or musician prefers a different key to the original recording.

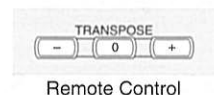
Transposition changes remain in effect until recording is started, the disk is ejected, or the Disklavier is switched off.

- 1a** Press the Selector button until the TRANSPOSE indicator lights. Then use the [-/NO] [+ /YES] buttons to increase or decrease the transposition value.



Playback can be transposed in half-step increments up or down two octaves (-24 to +24).

- 1b** On the remote control, use the [TRANSPPOSE] buttons.



The [-] button decreases the transposition value, and the [+] button increases the transposition value. The [0] button resets the transposition value to 00.

Once transposed, the transposition value is shown continuously on the display.

Chapter 8 Using the *Silent* Mode

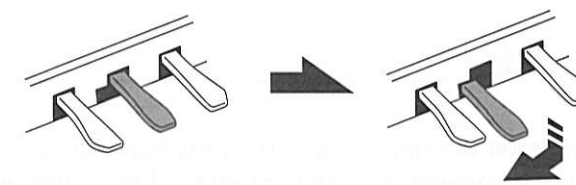
This chapter describes the functions of the *Silent* mode. It enables you to enjoy all the functions of the Disklavier without disturbing others, at any time, day or night.

What is “*Silent*”?

The Disklavier *Silent* Series upright piano incorporates Yamaha’s innovative *Quick Silent* system, in which a simple shift of the center pedal keeps the hammers from striking the strings, effectively silencing the acoustic piano. Sound information is sent to the digital piano tone generator, and output through stereo headphones, so that no sound can be heard externally. Also, an optical key sensor system registers every slight nuance of a player’s performance with no interference whatsoever to the touch of the keys. With this *Silent* feature, the Disklavier *Silent* offers new ways of enjoying your Disklavier that were not possible before.

Engaging the *Silent* Mode

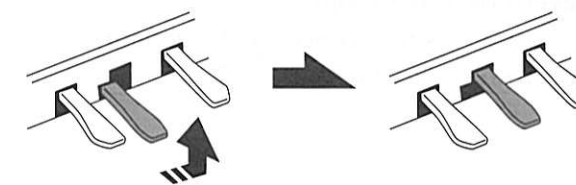
- 1** Hold down the center pedal and shift it to the left into the notch.



The Disklavier is now in *Silent* mode.

Disengaging *Silent* Mode

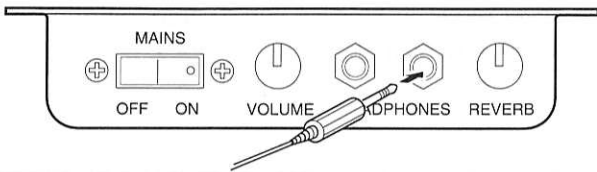
- 1** To disengage *Silent* mode, hold down the center pedal and shift it back to its normal position.



Connecting Headphones

Connect the HPE-170 stereo headphone (included) to either of two HEADPHONE jacks on the Silent Control Box.

Up to two sets of headphones can be connected at one time.



Adjusting the Volume of the Silent Piano

In Silent mode, the volume of the Silent digital piano is adjusted using the VOLUME knob on the Silent Control Box.

The standard volume level is roughly the three o'clock position. At this setting, the volume level of the digital piano is approximately the same as what the acoustic piano would be if it were not silenced.



Applying Reverb Effects

Normally, a piano sounds different depending on the size of the room in which sounds echo off the walls of the room. These reflected sounds are called “reverberation”, and are referred to as “reverb” in this manual.

The Disklavier’s reverb effects can simulate chamber and hall acoustics. For example, you can simulate the sound of a piano playing in a concert hall, adding spaciousness to the piano sound.

Types

Reverb types are selected in the Control Unit display. The default setting is HALL 1.

Type	Description
ROOM	Simulates the reverb of a live room
HALL 1	Simulates the reverb of a small concert hall (default)
HALL 2	Simulates the reverb of a large concert hall

Depth

Reverb depth is controlled using the REVERB knob on the Silent Control Box. Turn the knob clockwise to increase the reverb and counterclockwise to decrease it. Reverb is off when the REVERB knob is turned fully counterclockwise.




Reverb type and depth can be adjusted while playing the piano and listening to the effect through headphones.


Follow the procedure below to apply reverb to the digital piano sound in Silent mode.

- 1


Press the [FUNC.] button.



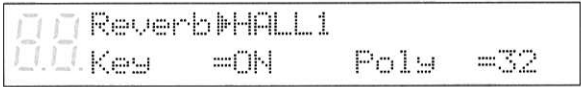
The FUNC. indicator lights and the Function menu display appears.


- 2

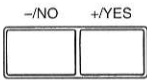
Press the [➡] cursor button until the ➡ cursor is next to the Silent option, then press the [ENTER] button.



The following display appears.



- 3

Use the [-/NO] [+ /YES] buttons to select a reverb type: ROOM, HALL1, or HALL2.


- 4

Use the REVERB knob on the Silent Control Box to set the reverb depth.

Turn the knob clockwise to increase the reverb and counterclockwise to decrease it.




Changing the Polyphony Setting

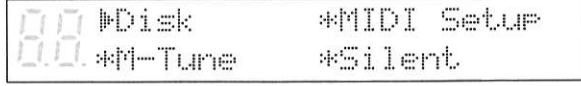
The Disklavier Silent digital piano in Silent mode is normally set to **32-note stereo sampling** polyphony. In other words, it plays up to 32 notes at a time (including sustained notes). However, if you are playing a duet, or a piece that requires you to use the pedals frequently, you may “run out of notes.” To prevent this, you can adjust the polyphony setting so that the digital piano is capable of **64-note stereo** polyphony.

- 1

Press the [FUNC.] button.



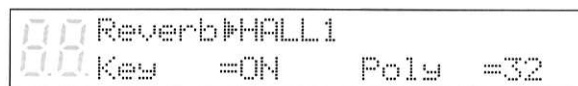
The FUNC. indicator lights and the Function menu display appears.



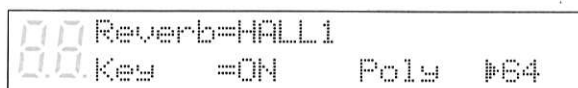
- 2** Press the [▶] cursor button until the ▶ cursor is next to the Silent option, then press the [ENTER] button.



The following display appears.



- 3** Press the [▶] cursor button to position the ▶ cursor next the Poly parameter, then use the [-/NO] [+ /YES] buttons to select the number of polyphonic notes: 32 or 64.



Tuning the Digital Piano

The *Silent* digital piano is automatically tuned to match the internal XG tone generator. If you want to re-tune the digital piano, follow the procedures outlined in “Tuning the Tone Generator” on page 51.

Cancelling Keyboard Motion During *Silent* Playback

Normally, when songs are played back on the Disklavier, the piano keys move up and down as if they were being played.

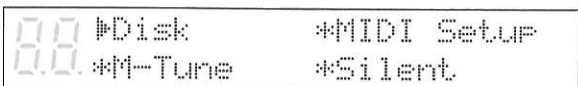
In *Silent* mode, you have the option of cancelling the keyboard motion so that the keys will not move during playback. This function enables you for example, to play along with the song being played back, add your own improvisation, or create a four-hand duet.

Note: Keyboard motion can only be cancelled in *Silent* mode. In normal mode, the keys will always move, with the exception of playing back L/R songs in which you can cancel either the left- or right-hand piano part.

- 1** Press the [FUNC.] button.



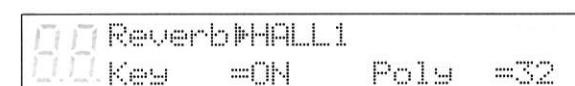
The FUNC. indicator lights and the Function menu display appears.



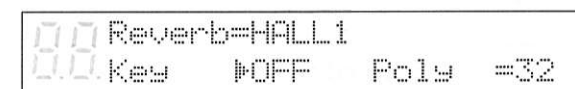
- 2** Press the [▶] cursor button until the ▶ cursor is positioned next to the Silent option, then press the [ENTER] button.



The Silent menu display appears.



- 3** Press the [▶] cursor button to position the ▶ cursor next to the Key parameter, then press the [-/NO] button to set the parameter to OFF.

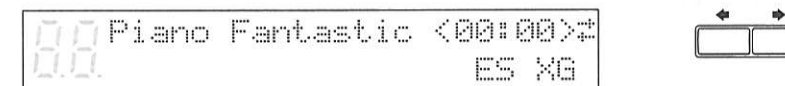


Keyboard motion is now cancelled.

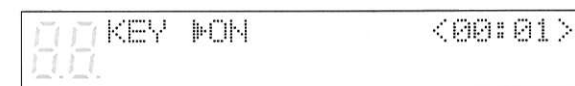
To re-enable keyboard motion, press the [+ /YES] button in this display to set the Key parameter to ON.

Shortcut Function for Cancelling Keyboard Motion in *Silent* Mode

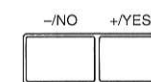
- 1** During stop, pause, or play mode, press the [◀] cursor button in the song title display.



The following display appears.



- 2** Press the [-/NO] button to cancel keyboard motion; press the [+ /YES] button to enable keyboard motion.



- 3** Press the [▶] cursor button to return to the previous display.

