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.

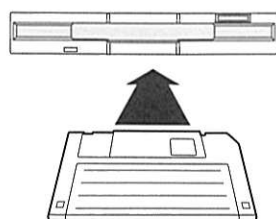With the tab window open, data is protected.   With the tab window closed, data is unprotected.

Protected   Unprotected
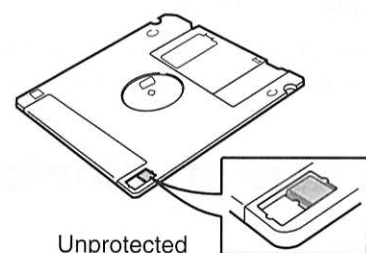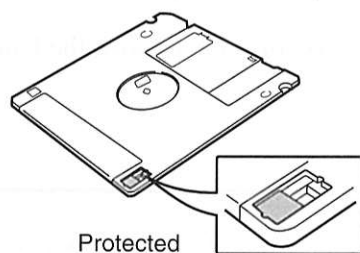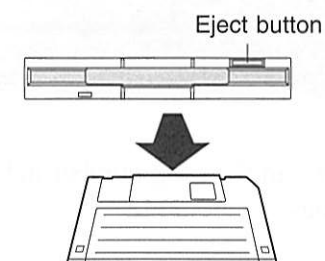
Inserting & Ejecting Floppy Disks

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.

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.
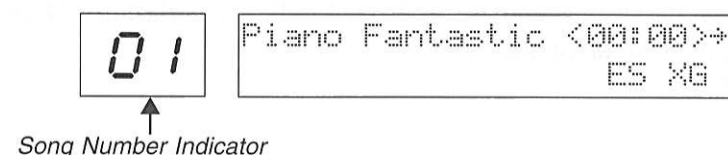
English

Chapter 6
Song Number Indicator & Display

When operating the Disklavier, relevant information is shown in the song number indicator and display. This chapter describes some of the frequently displayed indications.

Song Number Indicator

This 2-digit display indicates the number of the currently selected song. In the example below, song number one is currently selected.

```
 ___
|   |  ┌──────────────────────────┐
| 01|  │ Piano Fantastic <00:00>→ │
|___|  │                    ES XG │
       └──────────────────────────┘
```
Song Number Indicator

Display

The display is used in conjunction with most of the Disklavier's functions. Here are a few things that you will often see on the display.

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.
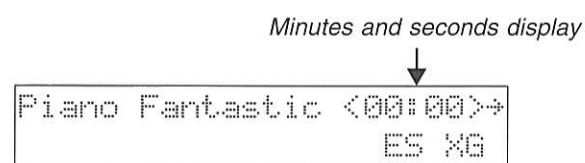
Song Title
When the disk title has finished scrolling, the title of the first song on the disk appears. As different songs are selected, the corresponding song number and song title appear.
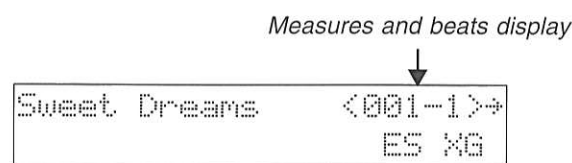
Time Display
Playing time is indicated in one of two formats:
Minutes and seconds, as shown below,

Minutes and seconds display
```
┌──────────────────────────┐
│ Piano Fantastic <00:00>→ │
│                    ES XG │
└──────────────────────────┘
```

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

Measures and beats display
```
┌──────────────────────────┐
│ Sweet Dreams    <001-1>→ │
│                    ES XG │
└──────────────────────────┘
```
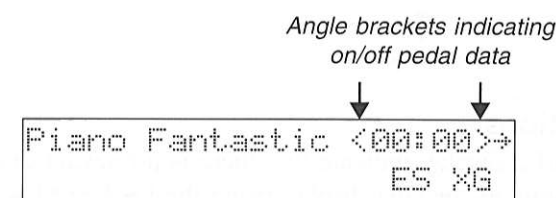
When the time display format is measures and beats, the tempo of the song is also shown on the display in beats per minute (bpm).

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 59 of the *Advanced Operation Manual.*
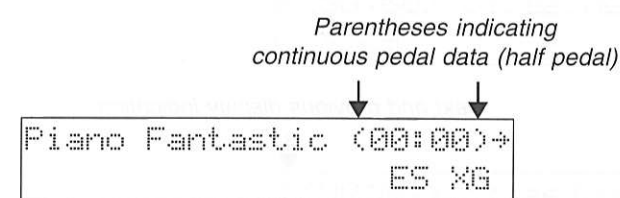
Pedal Data
Songs supplied on PianoSoft disks may contain one of two types of Pedal data: on/off pedal data or continuous pedal data (half pedal).

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
```
┌──────────────────────────┐
│ Piano Fantastic <00:00>→ │
│                    ES XG │
└──────────────────────────┘
```

Continuous pedal data (half pedal) can actually position a pedal anywhere within its normal travel (from fully up to fully down). It is indicated by parentheses (( )) around the time display as shown below.

Parentheses indicating continuous pedal data (half pedal)
```
┌──────────────────────────┐
│ Piano Fantastic (00:00)→ │
│                    ES XG │
└──────────────────────────┘
```

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.*

```
┌──────────────────────────┐
│ Piano Fantastic <00:00>→ │
│                    ES XG │
└──────────────────────────┘
```
Song format
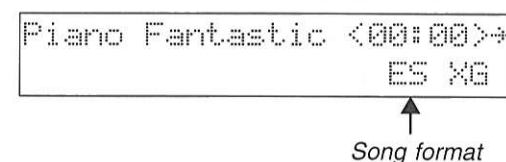
Symbol	Song format
ES	E-SEQ format
S0	SMF format 0
S1	SMF format 1

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.
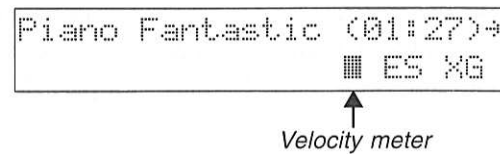
```
┌──────────────────────────┐
│ Piano Fantastic <00:00>→ │
│                    ES XG │
└──────────────────────────┘
```
Tone generator mode

English
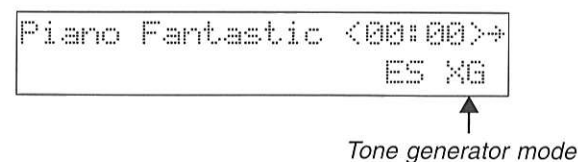
Piano Data Velocity Meters

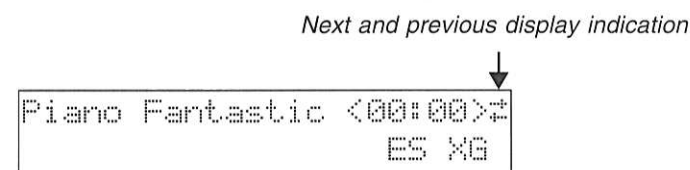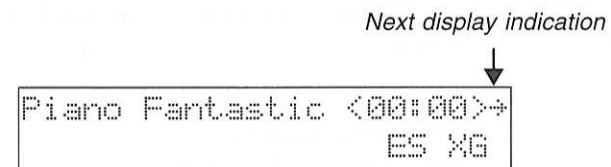The velocity of the piano part notes as they are played back is indicated on the display, as shown below.

```
Piano Fantastic (01:27)→
                ▓ ES XG
```

<center>Velocity meter</center>

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.

```
Piano Two Hands (02:44)→
               ▓▓ES XG
                 L R
```

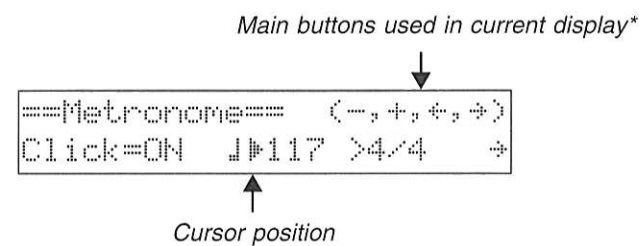<center>Velocity meters</center>
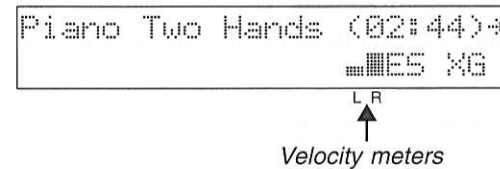
Previous/Next Display Indications

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 [◄] and [►] cursor buttons.

<center>Next display indication</center>

```
Piano Fantastic <00:00>→
                  ES XG
```

<center>Next and previous display indication</center>

```
Piano Fantastic <00:00>⇄
                  ES XG
```

Cursor

The ▶ cursor indicates the currently selected parameter.

<center>Main buttons used in current display*</center>

```
==Metronome==  (-,+,←,→)
Click=ON  ♩▶117 >4/4   →
```

<center>Cursor position</center>

* In this case, the [–/NO] and [+/YES] buttons and the [◄] and [►] cursor buttons are used to set the parameters in this display.

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.

```
Piano Fantastic <00:00>→
                  ES XG
```
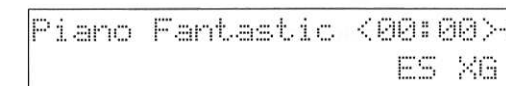
Pressing the [STOP] button will stop the disk title scrolling and the number and title of the first song on the disk will appear instantly.

> 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.**

PLAY/PAUSE
▶/ǁ

PLAY
▷
Remote Control

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.

```
Piano Fantastic <00:34>↓
                    ▓▓E5 XG
```
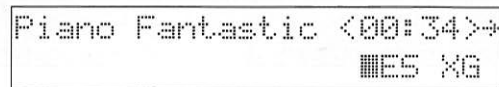
Pausing Playback

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

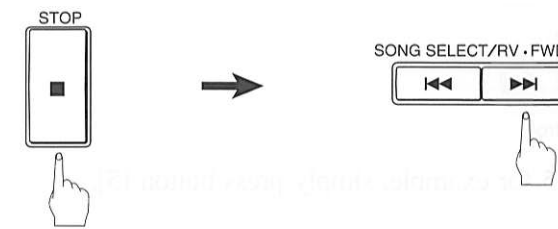**1** To stop playback, press the [STOP] button.

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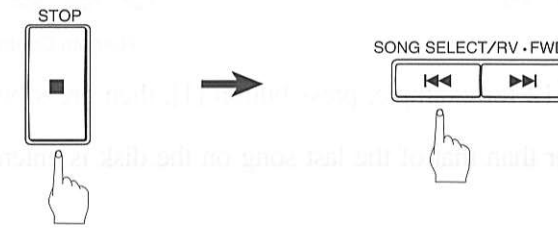
If the current song is the first song on the disk, pressing the [SONG SELECT |◀◀] button causes the disk title to scroll across the display. To stop the title scrolling, press the [STOP] button.

Selecting Songs with the Remote Control

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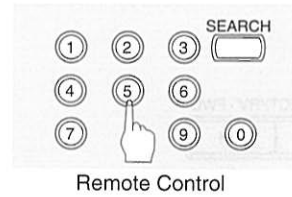
Using the [SONG SELECT] Buttons

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.

Remote Control

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.

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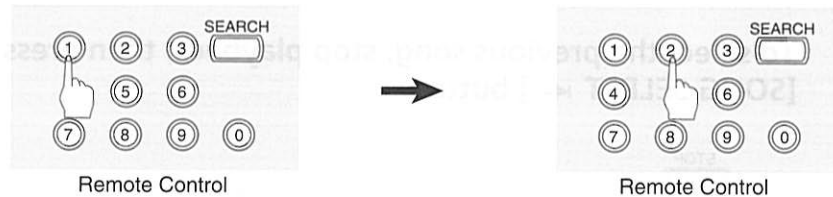
To select song number 12 for example, press button [1], then press button [2].

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.

Remote Control

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

Remote Control

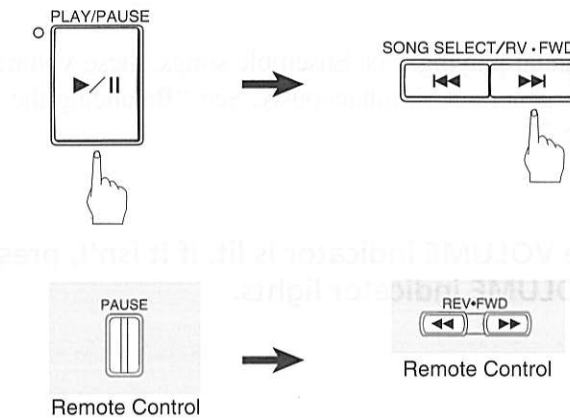**2** To continue normal playback, press the [PLAY/PAUSE] button. To engage Pause mode, press the [STOP] button.

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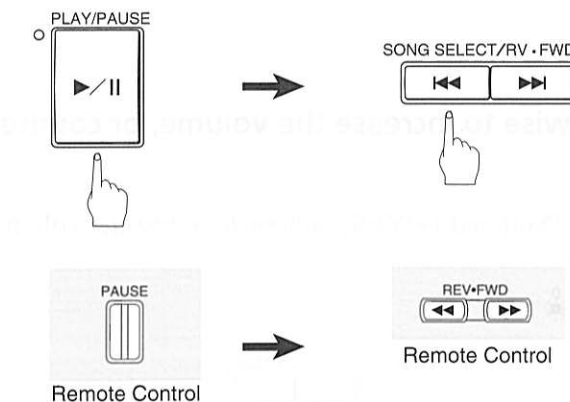
The PLAY/PAUSE indicator flashes quickly and the time display shows the current position.

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.
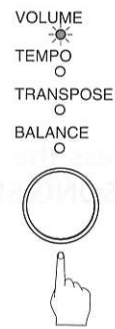
Adjusting the Volume

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

On upright models, volume setting in the range –7 to –10 will reduce the volume by activating the soft pedal mechanism. This is called "soft mode".

> Note: This setting does not affect manual playing. For Ensemble songs, these volume buttons control the piano and internal XG tone generator simultaneously. See "Balancing the Ensemble Volume (TG Master Balance)" on page 27.

1 **Make sure that the VOLUME indicator is lit. If it isn't, press the Selector button until the VOLUME indicator lights.**

```
VOLUME
  -☼-
TEMPO
  O
TRANSPOSE
  O
BALANCE
  O
```
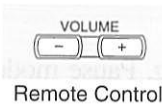
2a **Turn the Dial clockwise to increase the volume, or counterclockwise to decrease it.**

You can also use the [–/NO] and [+/YES] buttons to adjust the volume.

```
-10 -8  -6  -4  -2  0
 O  O  O  O  O  O  O  O  O  O  O  -☼-
```

```
–/NO   +/YES
```
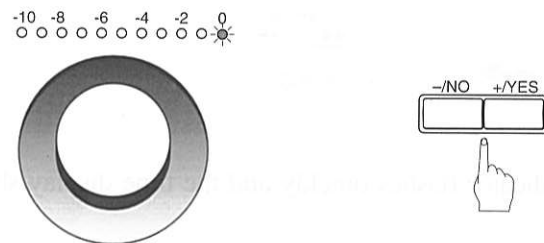
The volume can be adjusted from –10 to 0.
The volume level setting is shown by the LED volume indicators.

2b **On the remote control, use the [VOLUME] buttons to adjust the volume.**

```
    VOLUME
   [ – | + ]
Remote Control
```

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

* Soft Mode

On upright models, 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 14.)

> Note: When the "soft mode" is used, be sure to power off the Disklavier by first switching off the Control Unit before switching off the MAINS switch. Otherwise, the soft mode will not be released properly, causing the soft pedal to return to its original position suddenly with a small thump.

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 use the Dial on the Control Unit or the [VOLUME] buttons on the remote control to conveniently increase or decrease the overall volume in a normal fashion.
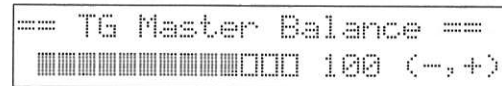
Balance settings are stored in the Control Unit. They are remembered even when the Disklavier is switched off.

> Note: To use the TG Master Balance function, be sure to set the speaker volume to an appropriately audible level.
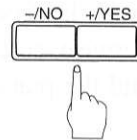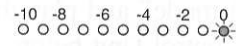
1 **Play an Ensemble song.**

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

```
VOLUME
  O
TEMPO
  O
TRANSPOSE
  O
BALANCE
  -☼-
```

The following display appears.

```
=== TG Master Balance ===
▐▌▐▌▐▌▐▌▐▌▐▌▐▌▐▌▐▌▐▌▐▌▐▌▐▌▐▌□□□ 100 (-,+)
```

3 Use the Dial or the [–/NO] and [+/YES] buttons to adjust the volume of the internal XG tone generator.

-10 -8 -6 -4 -2 0
○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ☀

–/NO +/YES

The TG Master balance can be adjusted from 10 to 127 and 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.

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 Dial or the [VOLUME] buttons on the remote control to increase or decrease the overall volume.
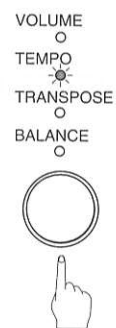
Changing the Tempo

You can speed up or slow down the playback tempo. Slowing down the playback tempo can be useful when practicing a difficult piano part.
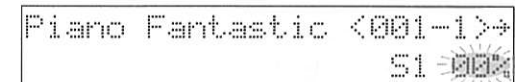
These tempo settings remain in effect until recording is started, the disk is ejected, or the Disklavier is switched off.

→ 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*.

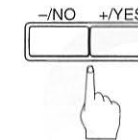**1** Press the Selector button until the TEMPO indicator lights.

VOLUME
○
TEMPO
☀
TRANSPOSE
○
BALANCE
○

"00%" flashes on the display.

```
Piano Fantastic <001-1>→
                    S1 00%
```
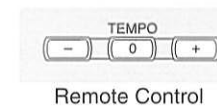*Flashes*

2a Turn the Dial clockwise to increase the tempo, or counter clockwise to decrease it.

You can also use the [–/NO] and [+/YES] buttons to adjust the tempo.

-10 -8 -6 -4 -2 0
○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ☀

–/NO +/YES

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

2b On the remote control, use the [TEMPO] buttons to adjust the tempo.

TEMPO
[–] [0] [+]

Remote Control

The [–] button decreases the tempo, and the [+] button increases the tempo. The [0] button resets the tempo to 00%.
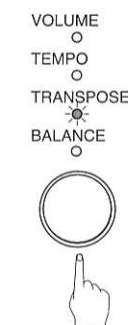
Once the tempo has been changed, the new tempo value will be shown continuously on the display.

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.
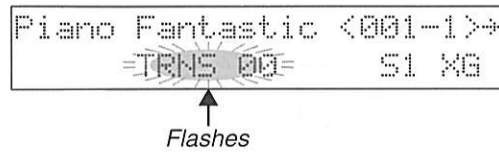
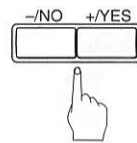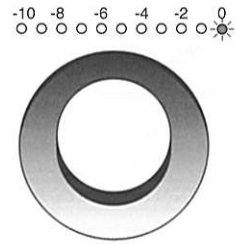**1** Press the Selector button until the TRANSPOSE indicator lights.

VOLUME
○
TEMPO
○
TRANSPOSE
☀
BALANCE
○

"TRNS 00" flashes on the display.

```
Piano Fantastic <001-1>
      =TRNS 00=     S1 XG
```
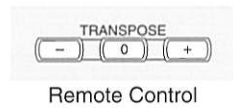Flashes

2a **Turn the Dial clockwise to increase the transposition value, or counterclockwise to decrease it.**

You can also use the [–/NO] and [+/YES] buttons to adjust the value.

-10 -8 -6 -4 -2 0
○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ☀

–/NO +/YES

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

2b **On the remote control, use the [TRANSPOSE] buttons.**

TRANSPOSE
(–)(0)(+)
Remote Control

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
Repeat Playback

This chapter describes various repeat playback functions that you may want to use for entertainment and study purposes. You can play songs and specific passages within a song repeatedly.

All Repeat Playback functions are set using the remote control only. (They cannot be set with the Control Unit.)

All Song, Single Song, Random Repeat

Using the [REPEAT] button on the remote control, you can select the following repeated playback modes.

Option	Description
ALL	All the songs on a disk are played repeatedly.
RPT	The selected song is played repeatedly.
RND	All the songs on a disk are played repeatedly in a random order.

1 **To select a Repeat mode, repeatedly press the [REPEAT] button on the remote control until the name of the desired mode appears on the display: ALL, RPT, or RND.**

REPEAT
○
Remote Control

The REPEAT indicator lights and the selected mode flashes on the display.

```
Spain              <001-1>
             =ALL= S1 XG
```
Flashes
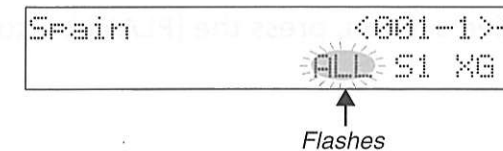
2 **To start Repeat playback, press the [PLAY] button.**

PLAY
▷
Remote Control

3 **To cancel Repeat mode, repeatedly press the [REPEAT] button on the remote control until "OFF" appears on the display.**
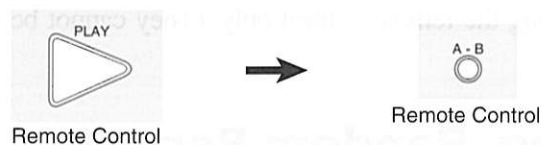
REPEAT
○
Remote Control

Segment A ~ B Repeat

In Segment A ~ B Repeat, playback is repeated between two specified points in a song; point A and point B. This function is useful when practicing or memorizing a difficult section of a song.

Once specified, points A and B are remembered until the disk is ejected or the Disklavier is switched off.

1 **To set the A point, start playback, then press the [A-B] button when the desired point is reached.**

PLAY

→

A-B

Remote Control   Remote Control

The A point is memorized and the "B" of "A-B" flashes on the display.

```
Spain          <001-1>→
               A-B ES XG
```
Flashes
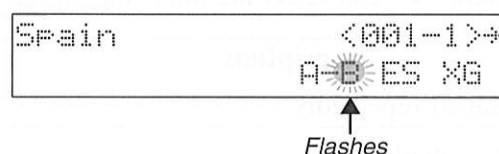
2 **To set the B point, press the [A-B] button again.**

A-B

Remote Control

The B point is memorized and the "B" of "A-B" stops flashing.

```
Spain          <001-1>→
               A-B ES XG
```
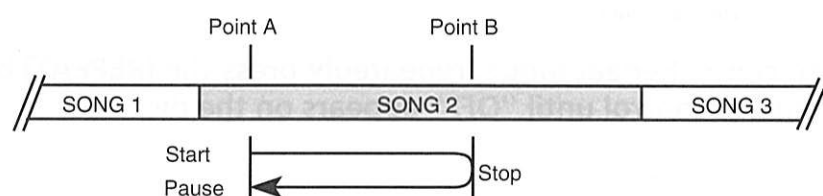
Playback stops, the song returns to point A, and Pause mode is engaged.

3 **To play back the specified section, press the [PLAY] button.**

PLAY

Remote Control

Playback starts from point A, continues up to point B and then stops. The song returns to point A and Pause mode is engaged.

Point A   Point B
// | |
| SONG 1 | SONG 2 | SONG 3 | //
Start
Pause |←————————→| Stop

4 **To cancel Segment A ~ B Repeat, press the [REPEAT] button so that "OFF" flashes on the display.**

REPEAT

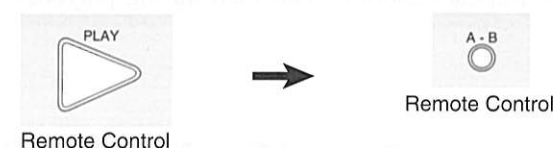Remote Control

```
Spain          <001-1>→
               OFF ES XG
```
Flashes
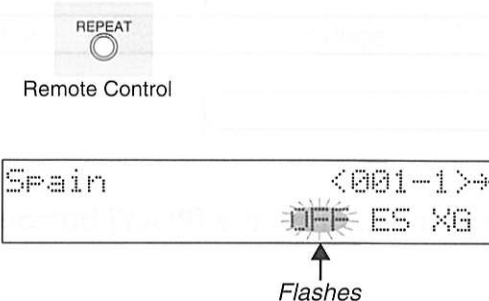
Segment A ~ B Repeat is turned off, but points A and B are still remembered. Pressing the [A-B] button re-enables the mode.
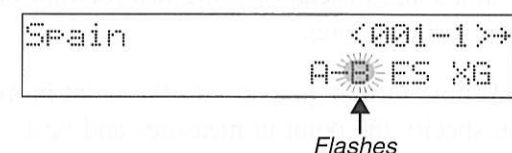
A-B

Remote Control

Segment A ~ (Return & Pause) Repeat

In Segment A ~ Repeat, playback can be repeatedly restarted from a specified point in a song. This is similar to Segment A ~ B Repeat except that only point A is specified. Like Segment A ~ B Repeat, this function is useful for practicing.
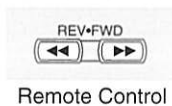
1 **To set the A point, start playback, then press the [A-B] button when the desired point is reached.**

PLAY

A-B

Remote Control   Remote Control

The A point is memorized and the "B" of "A-B" flashes on the display.

```
Spain          <001-1>→
               A-B ES XG
```
Flashes

2 **When you want to return to point A, press the [◄◄] button.**

REV·FWD
◄◄ ►►

Remote Control

Alternatively, press the [PAUSE] button followed by the [◄◄] button to reverse to point A.

PAUSE

→

REV·FWD
◄◄ ►►

Remote Control   Remote Control

English

Playback stops, the song returns to point A, and Pause mode is engaged.

Point A   Press the [REV] button

```
 //  ┌────────┬──────────────────────┬─────────────┐ //
     │ SONG 1 │       SONG 2         │   SONG 3    │
 //  └────────┴──────────────────────┴─────────────┘ //
```
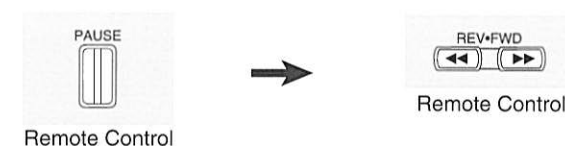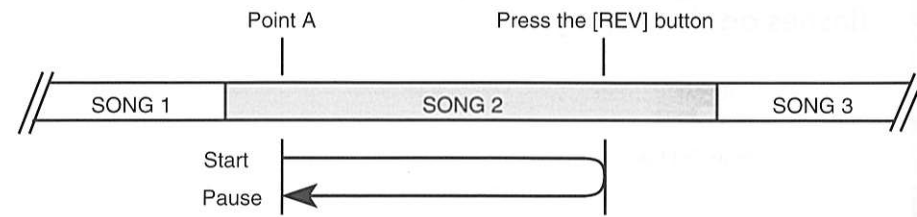
Start
Pause ◄───────────────────────────┘

3 **To start playback from point A, press the [PLAY] button.**

▷
PLAY

Remote Control

4 **To cancel Segment A ~ Repeat, return to point A, and in Pause mode press the [A-B] button so that "OFF" flashes on the display.**

○
A - B

Remote Control

```
┌─────────────────────────────────────┐
│ Spain            <001-1>→            │
│            OFF  ES  XG               │
└─────────────────────────────────────┘
```
           ▲
        Flashes
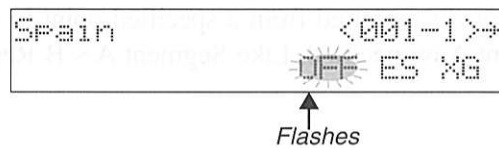
Note: Segment A ~ Repeat cannot be canceled during playback.

Starting Playback from a Specified Point (Search) ___

Playback can be started from a specified point in a song. Instead of using fast forward or preview, you can use this function to go directly to a desired point within a song.
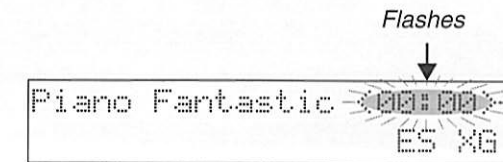
If the current song uses the minutes and seconds time format, you specify the point in minutes and seconds. If it uses the measures and beats time format, you specify the point in measures and beats.

Once a time value has been entered, it is remembered until the disk is ejected or the Disklavier is switched off. So if you want to search for the same point again, just press the search button again.
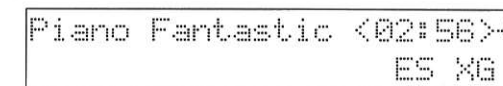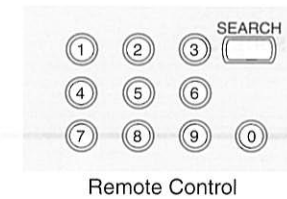
1 **Press the [SEARCH] button.**

▭
SEARCH

Remote Control

The time counter on the display flashes.

Flashes

```
┌─────────────────────────────────────┐
│ Piano Fantastic ←00:00→             │
│                    ES  XG           │
└─────────────────────────────────────┘
```

2 **Enter the time that you want to search for.**

For example, to search for 2:56, first press button [2], then button [5], then button [6].

```
 ①  ②  ③  SEARCH ▭
 ④  ⑤  ⑥
 ⑦  ⑧  ⑨  ⓪
```
Remote Control

```
┌─────────────────────────────────────┐
│ Piano Fantastic <02:56>→            │
│                    ES  XG           │
└─────────────────────────────────────┘
```

If the time value is less than 10, that is, between 00:01 and 09:59, remember to press the [0] button first to set the first digit to zero.

If you enter a value higher than the entire song time, the search goes to the end of the song.

3 **Press the [SEARCH] button again to begin the search.**

▭
SEARCH

Remote Control

If the Disklavier was already playing when you pressed the [SEARCH] button, playback will continue from the new point when the search is complete. If the Disklavier was not playing, Pause mode is engaged when the search is complete.

To search for a new point, repeat step 2.