

YAMAHA

Getting Started & Playback Manual



disklavier™ II

P I A N O S

FCC INFORMATION (U.S.A.)

1. IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!

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

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

3. NOTE: This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices. Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

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

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

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to co-axial type cable.

If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Corporation of America, Electronic Service Division, 6600 Orangethorpe Ave, Buena Park, CA 90620

The above statements apply ONLY to those products distributed by Yamaha Corporation of America or its subsidiaries.

IMPORTANT NOTICE FOR THE UNITED KINGDOM

Apply for model MX 100 II

Connecting the Plug and Cord

IMPORTANT: The wires in mains lead are coloured in accordance with the following code:

BLUE : NEUTRAL
BROWN : LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

Making sure that neither core is connected to the earth terminal of the three pin plug.

IMPORTANT NOTICE FOR THE UNITED KINGDOM

Apply for models DGH1B II, DG1F II, DG2F II, DC3F II, DC5F II, DC6F II, DC7F II W, DS400E II, DCFIII-S II

Connecting the Plug and Cord

IMPORTANT: The wires in this mains lead are coloured in accordance with the following code:

GREEN-AND-YELLOW : EARTH
BLUE : NEUTRAL
BROWN : LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured GREEN and YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol or coloured GREEN and YELLOW.

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

Dit produkt is gefabriceerd in overeenstemming met de radiostoringsvoorschriften van de Richtlijn van de Raad (82/499/EEG).

ΑΥΤΗ Η ΣΥΣΚΕΥΗ ΑΝΤΑΠΟΚΡΙΝΕΤΑΙ ΣΤΙΣ ΑΠΑΙΤΗΣΕΙΣ ΤΩΝ ΟΔΗΓΙΩΝ ΤΗΣ ΕΥΡΩΠΑΙΚΗΣ ΟΙΚΟΝΟΜΙΚΗΣ ΚΟΙΝΟΤΗΤΑΣ 82/499/Ε.Ο.Κ..

Este produto está de acordo com o radio de interferencia frequente requeridos do Conselho Diretivo 82/499/EEC.

Dette apparat overholder det gaeldende EF-direktiv vedrørende radiostøj.

Cet appareil est conforme aux prescriptions de la directive communautaire 87/308/CEE.

Diese Geräte entsprechen der EG-Richtlinie 82/499/ EWG und/oder 87/308/EWG.

This product complies with the radio frequency interference requirements of the Council Directive 82/499/EEC and/or 87/308/EEC.

Questo apparecchio è conforme al D.M.13 aprile 1989 (Direttiva CEE/87/308) sulla soppressione dei radiodisturbi.

Este producto está de acuerdo con los requisitos sobre interferencias de radio frecuencia fijados por el Consejo Directivo 87/308/CEE.

YAMAHA CORPORATION

CANADA

THIS DIGITAL APPARATUS DOES NOT EXCEED THE "CLASS B" LIMITS FOR RADIO NOISE EMISSIONS FROM DIGITAL APPARATUS SET OUT IN THE RADIO INTERFERENCE REGULATION OF THE CANADIAN DEPARTMENT OF COMMUNICATIONS.

LE PRESENT APPAREIL NUMERIQUE N'EMET PAS DE BRUITS RADIOELECTRIQUES DEPASSANT LES LIMITES APPLICABLES AUX APPAREILS NUMERIQUES DE LA "CLASSE B" PRESCRITES DANS LE REGLEMENT SUR LE BROUILLAGE RADIOELECTRIQUE EDCITE PAR LE MINISTERE DES COMMUNICATIONS DU CANADA.

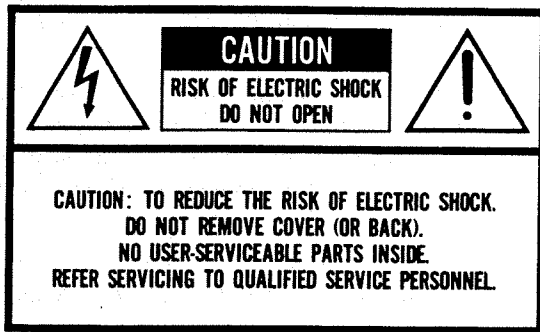
Apply for Model MX100 II only Uniquement pour le modèle MX100 II

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION: POUR ÉVITER LES CHOCs ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

SPECIAL MESSAGE SECTION

PRODUCT SAFETY MARKINGS: Yamaha electronic products may have either labels similar to the graphics shown below or molded/stamped facsimiles of these graphics on the enclosure. The explanation of these graphics appears on this page. Please observe all cautions indicated on this page and those indicated in the safety instruction section.



The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.



The lightning flash with arrowhead symbol within the equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electrical shock.

IMPORTANT NOTICE: All Yamaha electronic products are tested and approved by an independent safety testing laboratory in order that you may be sure that when it is properly installed and used in its normal and customary manner, all foreseeable risks have been eliminated. DO NOT modify this unit or commission others to do so unless specifically authorized by Yamaha. Product performance and/or safety standards may be diminished. Claims filed under the expressed warranty may be denied if the unit is/has been modified. Implied warranties may also be affected.

SPECIFICATIONS SUBJECT 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.

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:

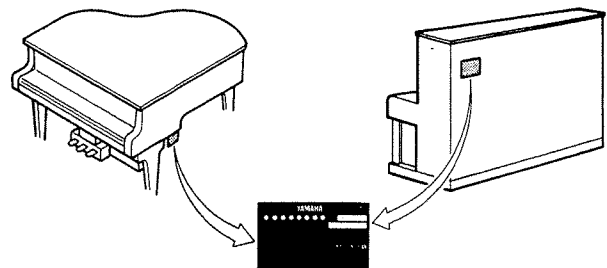
Battery Notice: This product MAY contain a small nonrechargeable battery which (if applicable) is soldered in place. The average life span of this type of battery is approximately five years. When replacement becomes necessary, contact a qualified service representative to perform the replacement.

Warning: Do not attempt to recharge, disassemble, or incinerate this type of battery. Keep all batteries away from children. Dispose of used batteries promptly and as regulated by applicable laws. Note: In some areas, the servicer is required by law to return the defective parts. However, you do have the option of having the servicer dispose of these parts for you.

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.

NOTICE: Service charges incurred due to 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.

NAME PLATE LOCATION: The graphic below indicates the location of the name plate. 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 _____

IMPORTANT SAFETY INSTRUCTIONS

INFORMATION RELATING TO PERSONAL INJURY, ELECTRICAL SHOCK,
AND FIRE HAZARD POSSIBILITIES HAS BEEN INCLUDED IN THIS LIST.

WARNING — When using any electrical or electronic product, basic precautions should always be followed. These precautions include, but are not limited to, the following:

1. Read all Safety Instructions, Installation Instructions, Special Message Section items, and any Assembly Instructions found in this manual **BEFORE** making any connections, including connection to the main supply.
2. Main Power Supply Verification: Yamaha products are manufactured specifically for the supply voltage in the area where they are to be sold. If you should move, or if any doubt exists about the supply voltage in your area, please contact your dealer for supply voltage verification and (if applicable) instructions. The required supply voltage is printed on the name plate. For name plate location, please refer to the graphic found in the Special Message Section of this manual.
3. Model MX100 II may be equipped with a polarized plug (one blade wider than the other). If you are unable to insert the plug into the outlet, turn the plug over and try again. If the problem persists, contact an electrician to have the obsolete outlet replaced. **DO NOT** defeat the safety purpose of the plug.
4. **DANGER** — Grounding Instructions: Disklavier II Grand must be grounded and therefore has been equipped with a three pin attachment plug. If this product should malfunction, the ground pin provides a path of low resistance for electrical current, reducing the risk of electrical shock. If your wall socket will not accommodate this type plug, contact an electrician to have the outlet replaced in accordance with local electrical codes. **Do NOT** modify the plug or change the plug to a different type!
5. **WARNING:** Do not place this product or any other objects on the power cord or place it in a position where anyone could walk on, trip over, or roll anything over power or connecting cords of any kind. The use of an extension cord is not recommended! If you must use an extension cord, the minimum wire size for a 25' cord (or less) is 18 AWG. **NOTE:** The smaller the AWG number, the larger the current handling capacity. For longer extension cords, consult a local electrician.
6. Ventilation: Electronic products, unless specifically designed for enclosed installations, should be placed in locations that do not interfere with proper ventilation. If instructions for enclosed installations are not provided, it must be assumed that unobstructed ventilation is required.
7. Temperature considerations: Electronic products should be installed in locations that do not significantly contribute to their operating temperature. Placement of this product close to heat sources such as; radiators, heat registers and other devices that produce heat should be avoided.

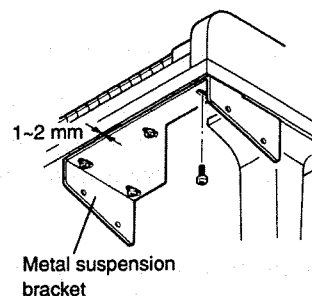
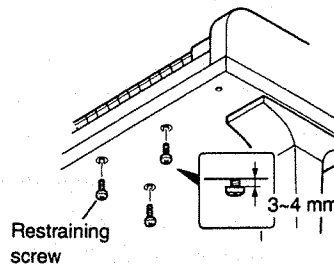
8. This product was **NOT** designed for use in wet/damp locations and should not be used near water or exposed to rain. Examples of wet/damp locations are; near a swimming pool, spa, tub, sink, or wet basement.
9. This product should be used only with the components supplied or; a cart, rack, or stand that is recommended by the manufacturer. If a cart, rack, or stand is used, please observe all safety markings and instructions that accompany the accessory product.
10. The power supply cord (plug) should be disconnected from the outlet when electronic products are to be left unused for extended periods of time. Cords should also be disconnected when there is a high probability of lightening and/or electrical storm activity.
11. Care should be taken that objects do not fall and liquids are not spilled into the enclosure through any openings that may exist.
12. Electrical/electronic products should be serviced by a qualified service person when:
 - a. The power supply cord has been damaged; or
 - b. Objects have fallen, been inserted, or liquids have been spilled into the enclosure through openings; or
 - c. The product has been exposed to rain; or
 - d. The product does not operate, exhibits a marked change in performance; or
 - e. The product has been dropped, or the enclosure of the product has been damaged.
13. Do not attempt to service this product beyond that described in the user-maintenance instructions. All other servicing should be referred to qualified service personnel.
14. 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 a long period 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.
15. Some Yamaha products may have benches and/or accessory mounting fixtures that are either supplied as a part of the product or as optional accessories. Some of these items are designed to be dealer assembled or installed. Please make sure that benches are stable and any optional fixtures (where applicable) are well secured **BEFORE** using. Benches supplied by Yamaha are designed for seating only. No other uses are recommended.

PLEASE KEEP THIS MANUAL

Disklavier Grand Piano

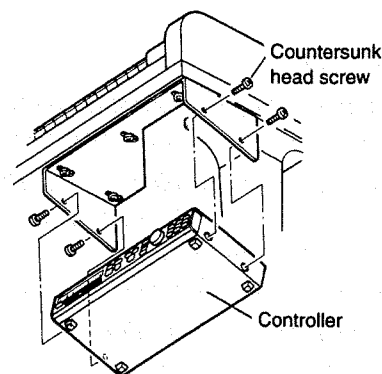
1 Metal suspension bracket mounting procedures

- ① Insert each of the enclosed restraining screws into one of the three marked nuts underneath the treble side key bed, then tighten the screws, leaving 3 to 4 mm from the head of the screw untightened.
- ② Fit the “key” holes of the suspension bracket to the screws mentioned in step ①, and place the bracket 1 to 2 mm back from the front side of the key bed. Tighten the screws to secure the bracket.
- ③ Insert the restraining screw into the slotted hole, and tighten it.
- ④ Remove the four screws from the sides of the controller and, from the front side, place the controller in the metal suspension bracket. Be careful that the corners of the controller do not come in contact with the metal suspension bracket.
- ⑤ Align the holes of the controller with the holes of the metal suspension bracket, then secure the controller to the metal suspension bracket using the four countersunk head screws enclosed.



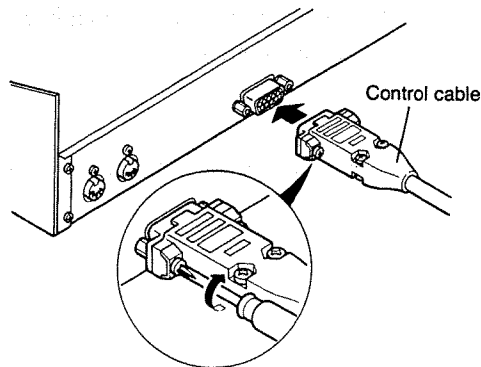
Notes:

- 1) Handle the metal suspension bracket and the controller carefully to avoid scratches.
- 2) Attached screws: restraining screws (5×12) 4
Countersunk head screws (4×10) 4
Removed screws: BWH screws (4×8) 4
Store the BWH screws which have been removed in case of future use.
- 3) The controller should be mounted facing approximately 18° upwards.



2 Mounting the control cable on the back of the controller

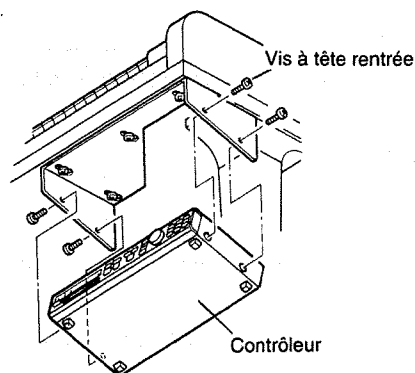
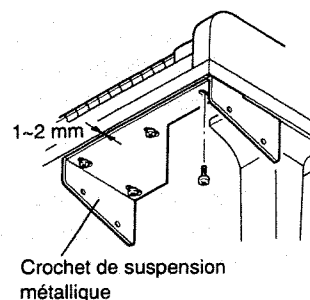
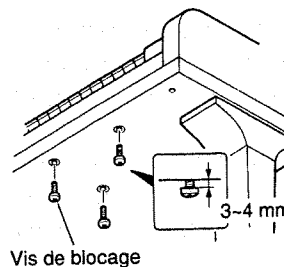
- ① Insert the control cable underneath the grand piano to the connector on the back of the controller. Remember that the controller faces slightly upwards.
- ② After inserting the connector, securely tighten the two screws attached to the connector.



Piano à queue Disklavier

1 Procédure de montage du crochet de suspension métallique

- ① Insérer les vis de blocage fournies dans les trois écrous marqués sous le châssis du clavier, du côté des aigus, puis serrer les vis en laissant dépasser 3 à 4 mm à partir de la tête de vis.
- ② Aligner les trous allongés du crochet de suspension sur les vis mentionnées à l'étape ① et placer le crochet 1 à 2 mm en retrait de l'avant du châssis du clavier. Serrer les vis pour fixer le crochet en place.
- ③ Insérer la vis de blocage dans le trou fendu, puis la serrer.
- ④ Déposer les quatre vis des côtés du contrôleur puis, de l'avant, placer le contrôleur sur le crochet de suspension métallique. Veiller à ce que les coins du contrôleur ne touchent pas le crochet de suspension métallique.
- ⑤ Aligner les trous du contrôleur sur les trous du crochet de suspension métallique, puis fixer le contrôleur au crochet de suspension en utilisant les quatre vis à tête évidée fournies.

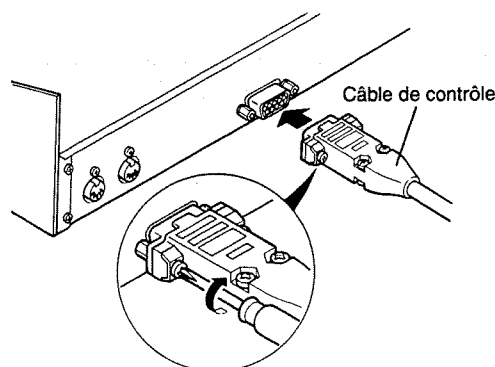


Remarques:

- 1) Manipuler soigneusement le crochet de suspension métallique et le contrôleur pour éviter de les griffer.
- 2) Vis fixées: vis de blocage (5 × 12) 4
vis à tête rentrée (4 × 10) 4
Vis enlevées: Vis BWH (4 × 8) 4
Ranger les vis BWH pour les réutiliser éventuellement.
- 3) Monter le contrôleur dans un angle supérieur de 18°

2 Fixation du câble de contrôle au dos du contrôleur

- ① Brancher le câble de contrôle sous le grand piano sur le connecteur, situé au dos du contrôleur. Se souvenir que le contrôleur est légèrement tourné vers le haut.
- ② Après avoir branché le connecteur, serrer fermement les deux vis du connecteur.



YAMAHA

disklavier™ II

Getting Started & Playback Manual

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Chapter 1

Safety & Warnings

Please read the following information before operating your Disklavier piano.

Safety Information

- **Make sure** the Disklavier piano's power cord is not located in a position where it is likely to be walked on and/or pinched by other equipment placed near to it.
- **Do not** expose the Disklavier piano to extremes of humidity.
- **Do not** place the Disklavier piano near water.
- **Do not** place the Disklavier piano in areas subject to extremely low temperatures.
- **Do not** place the Disklavier piano in locations subject to excessive dust.
- **Do not** place the Disklavier piano in an area subject to vibration.
- **Do not** expose the Disklavier piano to severe shocks.
- **Do not** place the Disklavier piano in direct sunlight, close to heating units, or in areas subject to high temperatures.
- The ambient temperature where the Disklavier piano is located should be between 5°C and 40°C (41°F~104°F).
- If the Disklavier piano is not going to be used for a prolonged period, disconnect it from the AC receptacle.

Warnings

- The Disklavier piano **should only** be connected to an AC receptacle of the type described in this *Operating Manual* or as marked on the Disklavier piano.
- To reduce the risk of electric shock, **do not** remove the controller's cover.
- To reduce the risk of fire or electric shock, **do not** expose the Disklavier piano to rain or moisture.
- The Disklavier piano contains no user serviceable parts. **Refer all** servicing to qualified personnel.
- The Disklavier piano controller uses digital circuits that operate at high frequencies. When used close to TV and radio equipment, reception may be affected. If this is the case, simply relocate the affected equipment.
- If any of the following should occur, the Disklavier piano should be serviced by qualified personnel:
 - The Disklavier piano's power cord or plug becomes damaged in any way.
 - Metal objects or liquids get inside the Disklavier piano.
 - The Disklavier piano is exposed to rain.
 - The Disklavier piano is dropped and/or the enclosure is damaged.
 - The Disklavier piano does not operate normally or a marked change in performance is noticed.
- If the Disklavier piano is worked extremely hard, that is, prolonged playback of songs that could not possibly be played by a human pianist because they contain excessive use of keyboard and pedals, the Disklavier piano's thermal trip may trip. The thermal trip will automatically reset when the Disklavier piano has cooled down.

Chapter 2

Introduction

Welcome to the Disklavier Piano

Thank you for purchasing a Disklavier piano. The Disklavier piano is a fascinating instrument that integrates a classic Yamaha acoustic piano with repeatable playback, recording and MIDI, using floppy disks for song storage.

Disklavier Piano Manuals

The Disklavier piano is supplied with two operating manuals: this *Getting Started & Playback Manual* and an *Advanced Operation Manual*.

Getting Started & Playback Manual

To quickly gain a good understanding of your Disklavier piano, you should start by reading this manual. This will introduce you to the Disklavier piano's features and functions, show you how to set up your Disklavier piano, and how to play back songs. The playback functions have been divided into two sections: one for basic playback functions, such as song select, volume adjustment, etc., and another for advanced playback functions, such as song repeat and practice playing with the metronome.

Advanced Operation Manual

The *Advanced Operation Manual* explains how to record and edit your own songs, and the various floppy disk and song file utilities, such as song copy, delete, etc. It also shows how the Disklavier piano can be used in a MIDI system with a MIDI tone generator or MIDI sequencer. A chapter on troubleshooting, and a glossary of Disklavier piano terminology are also included.

Conventions Used in the Disklavier Piano Manuals

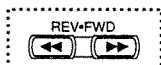
- A "song" usually means a short piece of music with lyrics. However, for clarity, the term "song" is used to refer to any piece of music, be it jazz, classical, or popular.
- **The Disklavier piano pedals** are named as follows throughout this manual.

	LEFT	CENTER	RIGHT
GRAND	Shift Pedal	Sostenuto Pedal*	Sustain Pedal
UPRIGHT	Soft Pedal	Muffler Pedal	Sustain Pedal

* Some models have a "bass sustain" pedal instead of a sostenuto pedal.

Note: No pedal data is recorded for the Disklavier upright's muffler pedal or the "bass sustain" pedal fitted to some Disklavier grands.

- **Remote control:** Many of the Disklavier piano's functions can be operated using either the front panel controls or the remote control. When the remote control can be used instead of a front panel control, the relevant remote control button is illustrated, for example, as below.



<Remote Controller>

- When a front panel or remote control button is mentioned in the text, **the name of the button** is enclosed in square brackets, for example, the [PLAY/PAUSE] button.

Items Supplied with the Disklavier Piano

1	Remote Control
2	Batteries for the Remote Control
1	Disklavier Sample Disk (PianoSoft)
1	Blank Floppy Disk
1	<i>Getting Started & Playback Manual</i>
1	<i>Advanced Operation Manual</i>
1	<i>HOW TO CARE FOR YOUR YAMAHA PIANO</i> guide

Installation

Although your Disklavier piano will probably be delivered and installed by your Disklavier piano dealer, it will be up to you to decide where you want it installed. Your dealer will be able to offer you some good advice. Basically, the Disklavier piano must be on a flat, level surface, somewhere that complies with the "Safety Information" on page 3.

Moving Your Disklavier Piano

Piano moving is usually a job best undertaken by professionals. If the Disklavier piano is to be moved, make sure that the power cord is disconnected along with any other cables, such as MIDI cables.

Cleaning Your Disklavier Piano

If the Disklavier piano should require cleaning, use a soft, dry cloth. Do not use abrasive cleaners or solvent-based cleaning fluids, such as alcohol and benzine.

Trademarks & Copyright

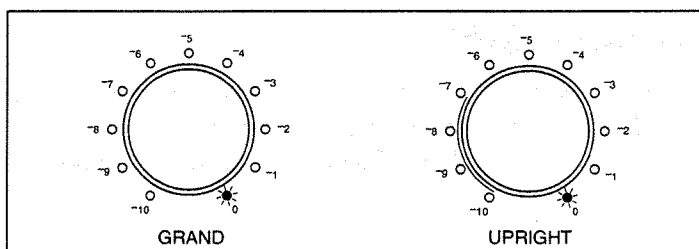
Disklavier, PianoSoft, and PianoSoft•Plus are trademarks of Yamaha Corporation. All other trademarks are the property of their respective holders. Unauthorized copying of PianoSoft and PianoSoft•Plus disks prohibited.

Disklavier Piano Features

- Fast and accurate optical sensors ensure that every nuance of even the most demanding performance is recorded, providing faithful playback — time and time again.
- Volume, tempo, and transposition control during playback.
- Song playback can be repeated, randomized, between two specified points, or started from a specified point in a song.
- A selection of your favorite songs on a disk can be compiled into a sequence program.
- Auto Disk Play for timer-controlled playback.
- Built-in metronome for practice playing and recording.
- L/R songs allow independent recording of the left and right-hand parts. During playback either part can be switched off for practice, and then re-recorded.
- MIDI functions allow recording and playback with an external MIDI sequencer, and Ensemble song composition using external tone generators, synthesizers, etc.
- The following note parameters can be changed in Note Edit mode: pitch, velocity, length, and timing. Missed notes can be inserted in a song while in Insert mode.
- Punch-in/punch-out recording.
- Comprehensive disk and song file utilities.
- Compatibility with E-SEQ song files (Yamaha QX3 Sequencer, etc.).
- Full function remote control for distance and armchair control.
- Song data is stored on readily available 3.5 inch 2DD type floppy disks.

Disklavier Grand & Upright

- This *Getting Started & Playback Manual* and the *Advanced Operation Manual* are used for both the Disklavier grand and the Disklavier upright. The only difference in operation between the Disklavier upright and the Disklavier grand is the volume control, as shown below.



- On the Disklavier upright, a “Soft mode” setting in the range -7 to -10 will reduce the volume and activate the soft pedal mechanism.

Disklavier Piano Terminology (An Introduction)

PianoSoft

The PianoSoft Disk Collection is a library of prerecorded song disks, made by Yamaha, specifically for use with the Disklavier piano. There are many titles available and music styles include classical, jazz, popular, and others. As well as songs for listening enjoyment, there are Piano Study disks for the piano student and accompaniment disks for vocal and instrumental practice.

PianoSoft•Plus

PianoSoft•Plus disks contain Ensemble songs featuring instrumental accompaniment that can be played on the Disklavier piano with a Yamaha TG100 Tone Generator.

See your Disklavier piano dealer for a PianoSoft and PianoSoft•Plus catalog.

Disklavier Piano Song Types

There are three types of songs used with the Disklavier piano: Normal, L/R, and Ensemble. All types are available in the PianoSoft collection, and you can also record them yourself.

Normal Song: In a Normal song, all piano data is stored on one track.

L/R Song: In an L/R song, the left-hand piano part is stored on track 1 (L) and the right-hand piano part is stored on track 2 (R). During playback you can cancel either part, and then play that part yourself. When recording an L/R song, you can record the two parts simultaneously or separately.

Ensemble Song: An Ensemble song contains the same left and right-hand parts as an L/R song, and in addition, up to 13 accompanying instrument tracks. These extra tracks are played by an external MIDI tone generator, which can be connected to the Disklavier piano's MIDI OUT connection. The accompanying tracks may be used for acoustic bass, drums, strings, vibes, etc.

Parts & Tracks

On the Disklavier piano, piano parts and the accompanying instrument parts of an Ensemble song are recorded onto tracks. Each track transmits MIDI data on a fixed MIDI channel: Track 1 to MIDI Channel 1, Track 2 to MIDI Channel 2, etc.

E-SEQ

E-SEQ is a song file format, developed by Yamaha, that the Disklavier piano uses to save songs onto floppy disk. The Yamaha QX3 MIDI Sequencer also uses the E-SEQ format, so song disks recorded on a QX3 can be played by the Disklavier piano.

MIDI

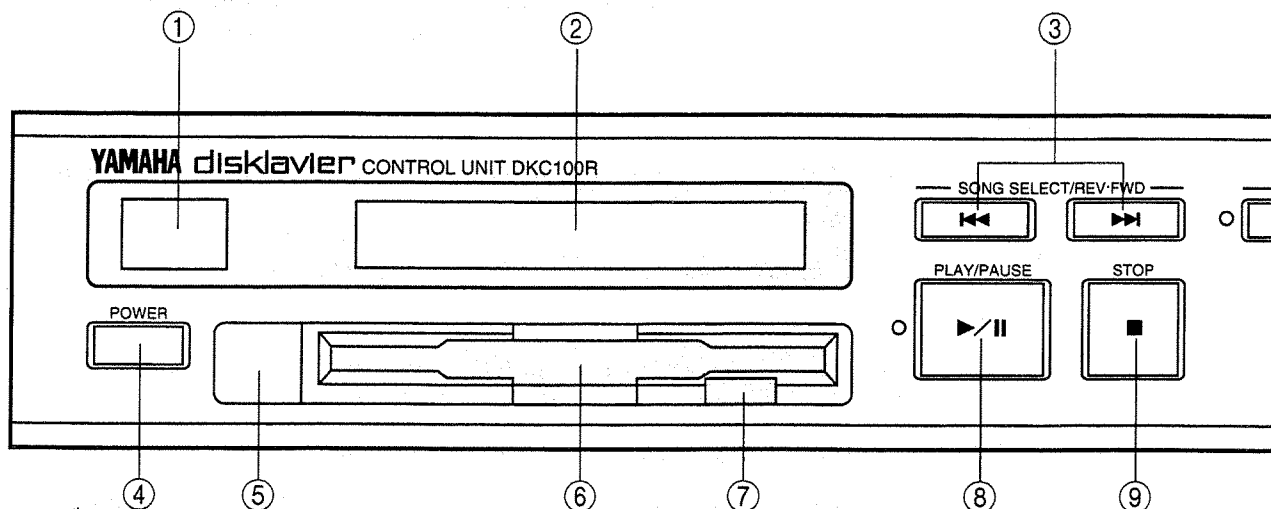
MIDI (Musical Instrument Digital Interface) is an interconnection format that allows communication between electronic musical instruments. The Disklavier piano can be connected to various MIDI devices, including a MIDI tone generator for Ensemble song playback and recording, a synthesizer, or a MIDI sequencer. A synthesizer or tone generator can even be played using the Disklavier piano keyboard. MIDI is a fascinating subject, and for those of you who want to know more, there are many good books available.

- The "Glossary" on page 108 of the *Advanced Operation Manual* explains many more Disklavier piano terms.

Chapter 3

Controls & Connections Explained

Controller Front Panel



① Song number indicator

This 2-digit display indicates the number of the currently selected song.

② LCD

During playback, this LCD (Liquid Crystal Display) displays the song's title and a time counter. It is also used in conjunction with all the Disklavier piano's functions for displaying options, parameters, and settings.

③ [SONG SELECT/REV•FWD] buttons

These buttons provide three functions. In Stop mode they can be used to select songs. In Play mode they work as fast preview and review. In Pause mode they work as fast forward and reverse.

④ [POWER] switch

Used to turn the controller on and off. Press once to power on, press again to power off. See page 13 for details about the recommended power on and off procedures.

⑤ Remote control sensor

When the remote control is used, it should be pointed at this sensor.

⑥ Floppy disk drive

Floppy disks are inserted here for playback, formatting, recording, editing, etc.

⑦ Floppy disk eject button

Press to eject a floppy disk from the disk drive.

⑧ [PLAY/PAUSE] button

Used to start and pause playback, recording, and the metronome. Note: the remote control has separate play and pause buttons.

⑨ [STOP] button

Used to stop playback, recording, and can also be used to exit a function.

(The following descriptions refer to items illustrated on the facing page.)

⑩ [L] [R] PART SELECT buttons

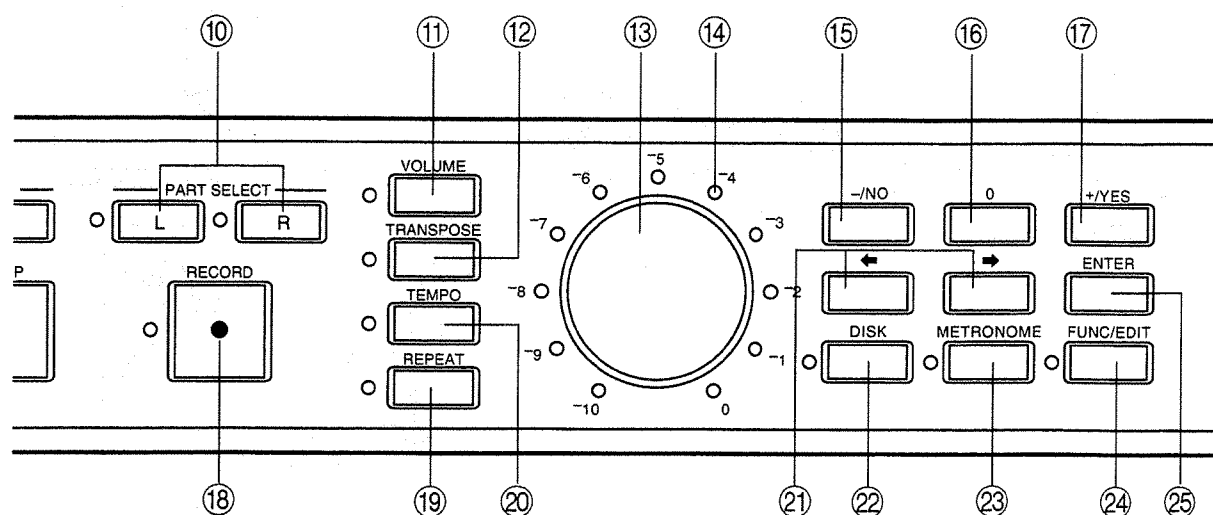
For L/R and Ensemble songs, these buttons allow you to choose which part will play: left-hand part, right-hand part, or both. They are also used to select a part for recording. Pressing both buttons together switches the pedal data on and off so that you can play the pedal part yourself.

⑪ [VOLUME] button

To adjust the playback volume, press this button, then use the DIAL or the [-/NO] and [+/YES] buttons.

⑫ [TRANPOSE] button

To transpose song playback, press this button, then use the DIAL or the [-/NO] and [+/YES] buttons.



⑬ Rotary DIAL

This rotary dial is used to adjust the volume and set various parameter values, such as tempo, transposition, etc.

⑭ LED volume indicators

A ring of LEDs around the rotary Dial used to indicate the playback volume setting. They are also used with the metronome.

⑮ [-/NO] button

Used when setting various function values. Pressing this button decreases a value. It is also used to say NO when the controller requires a "YES/NO?" answer from you before executing a function.

⑯ [0] button

Pressing this button resets the value of the currently selected function to its original setting (factory default). While editing notes, pressing this button will reset the currently selected note parameter to its original value.

⑰ [+/YES] button

Used when setting various function values. Pressing this button increases a value. It is also used to say YES when the controller requires a "YES/NO?" answer from you before executing a function.

⑱ [RECORD] button

Used to engage Record Standby mode before recording starts.

⑲ [REPEAT] button

Press this button to select one of the song repeat functions: ALL, RPT, RND, or A-B.

⑳ [TEMPO] button

To change the playback tempo, press this button, then use the DIAL or the [-/NO] and [+/YES] buttons.

㉑ [←] [→] Cursor buttons

Used for selecting the various functions and options shown on the LCD, titling songs and disks, and selecting LCD menus.

㉒ [DISK] button

Press to access the disk and song functions, such as disk format, song copy, etc.

㉓ [METRONOME] button

Press to access the metronome settings.

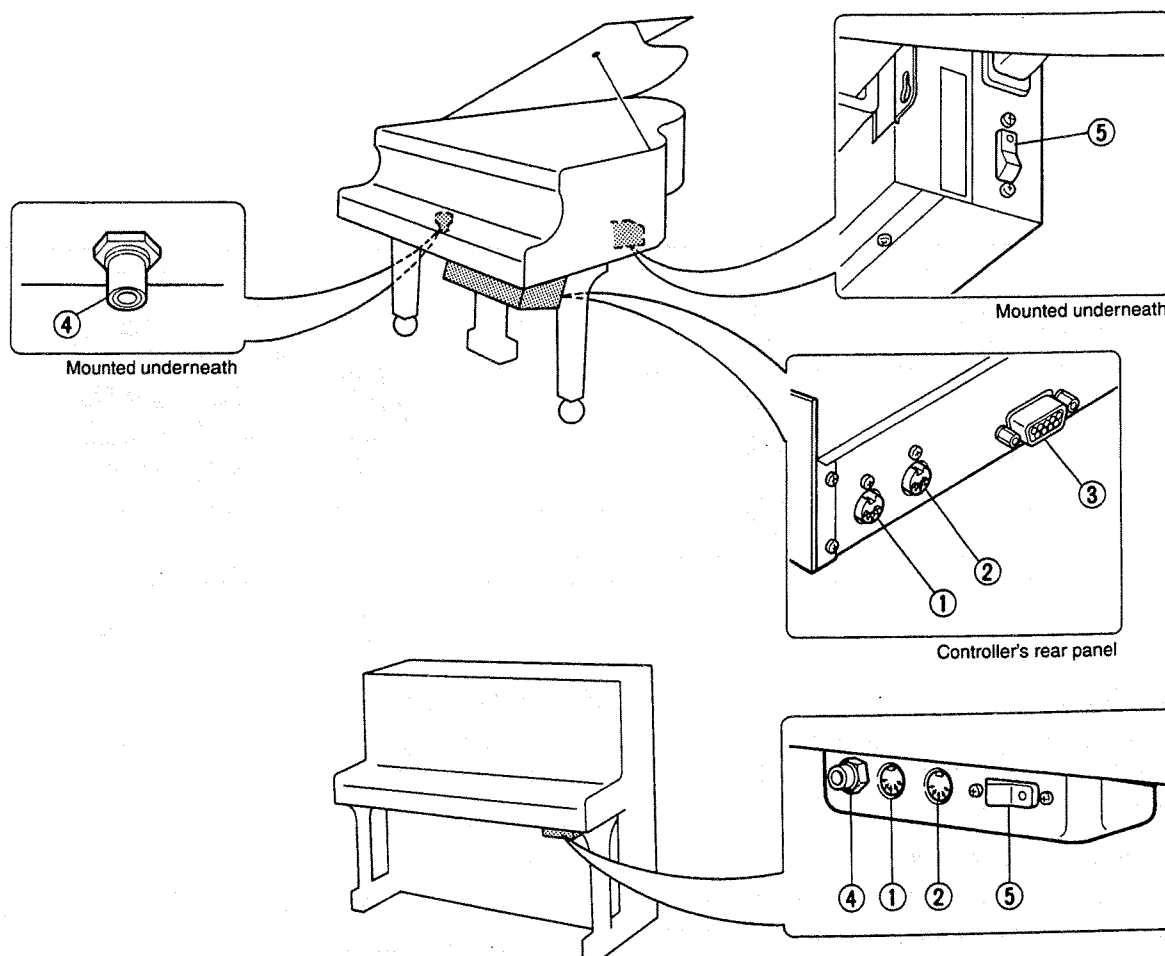
㉔ [FUNC/EDIT] button

Press to access the MIDI setup and track edit functions.

㉕ [ENTER] button

Used to select a function shown on the LCD, to execute a function, and to enter the A and B points for A-B repeat.

Mains Switch, MIDI Connections & Foot Controller



① MIDI OUT

MIDI data from the controller is output via this connection. An external tone generator, such as the Yamaha TG100, can be connected here for Ensemble song playback.

② MIDI IN

The Disklavier piano receives MIDI data via this connection. A MIDI sequencer can be connected here.

③ TO CONTROL CABLE FOR PIANO (Disklavier grand only)

This connection carries data from the controller to the optical sensors and solenoids inside the Disklavier piano.

④ FOOT CONTROL

An optional Yamaha FC-5 foot switch can be connected here for starting and pausing playback, recording, and punch-in/punch-out recording. Alternatively, an optional Yamaha FC-7 foot controller can be connected. An FC-7 can control the same functions as above and the playback tempo.

⑤ MAINS ON-OFF

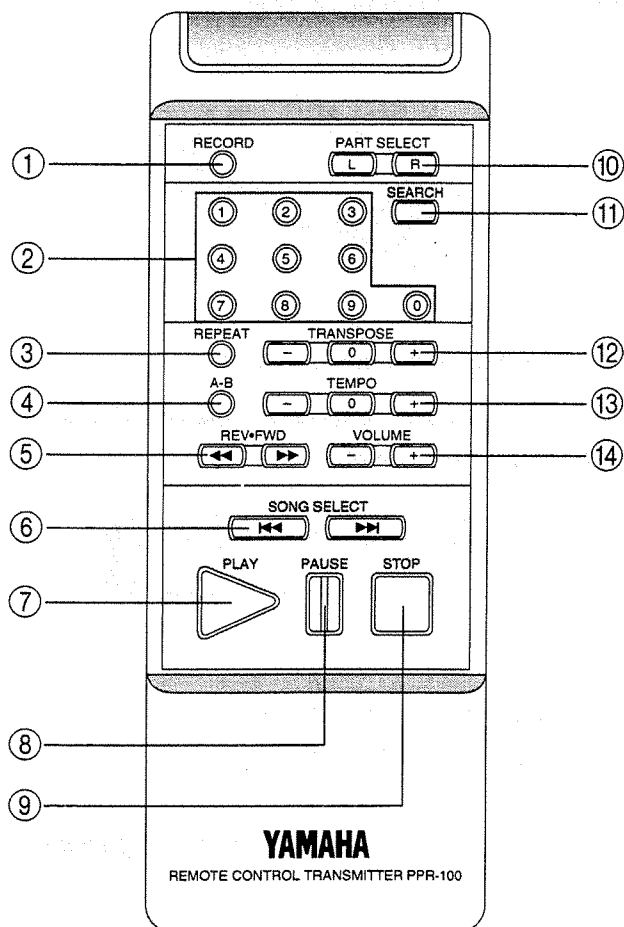
Used to turn the Disklavier piano on and off. This switch affects the Disklavier piano and the controller. See page 13 for details about the recommended power on and off procedures.

Note: The MAINS switch only needs to be turned off when you are not going to use the Disklavier piano for a long period. For daily use, only the controller needs to be powered on and off.

Chapter 4

The Remote Control

What the Buttons Do



① [RECORD] button

Press to engage Record Standby mode before recording starts

② Number keypad*

Used to select songs directly and to enter a time at which you want song playback to start.

③ [REPEAT] button

Press this button to select one of the song repeat functions: ALL, RPT, or RND.

④ [A-B] button

Press this button to enter A and B points for the A-B and A- Repeat modes.

⑤ [REV•FWD] buttons*

These buttons provide two functions. In Play mode they work as fast preview and review. In

Pause mode they work as fast forward and reverse.

⑥ [SONG SELECT] buttons*

Press to select a song.

⑦ [PLAY] button*

Press to start playback.

⑧ [PAUSE] button*

Used to pause playback, recording, and the metronome.

⑨ [STOP] button

Used to stop playback, recording, and can also be used to exit a function.

⑩ [PART SELECT] buttons

For L/R and Ensemble songs, these buttons allow you to choose which part will play: left-hand part, right-hand part, or both parts. They are also used to select a part for recording.

⑪ [SEARCH] button*

To start playback from a specific time in a song, press this button, enter the start time using the remote control's number buttons, then press this button again.

⑫ [TRANSPOSE] buttons

To transpose song playback, press the [-] button to transpose down, the [+] button to transpose up, and the [0] button to reset the transposition value to 00.

⑬ [TEMPO] buttons

To change the playback tempo, press the [-] button to decrease the tempo, the [+] button to increase the tempo, and the [0] button to reset the tempo to 00.

⑭ [VOLUME] buttons

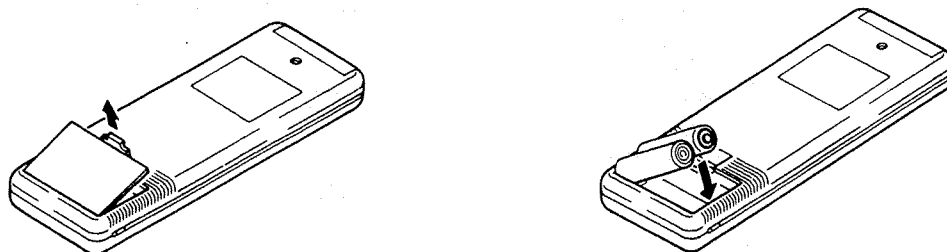
To adjust the playback volume, press the [-] button to decrease the volume, and the [+] button to increase the volume.

* The operation of these remote control buttons is a little different to their counterparts on the controller's front panel.

Installing Batteries in the Remote Control

Before the remote control can be used, the two batteries supplied with the Disklavier piano must be installed. Follow the procedure below.

- 1 Remove the battery cover from the rear of the remote control (shown left). Install the batteries (shown right), making sure that you insert them the right way.



A diagram inside the battery compartment shows which way they should be installed.

- 2 When you have installed the batteries, replace the battery cover.

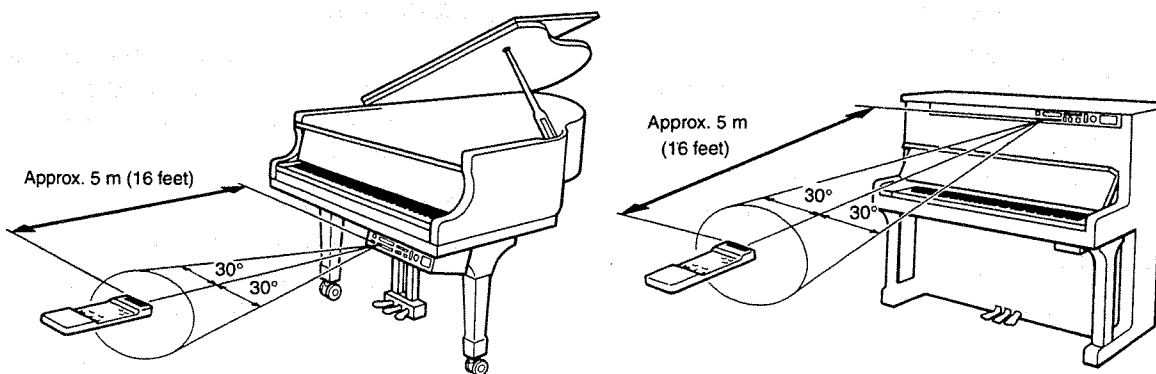
Note: Make sure that you insert the batteries the right way, (–) to (–) and (+) to (+), otherwise, the remote control will not work.

Battery Replacement

- When the remote control fails to work from a distance, replace the batteries.
- Replacement batteries should be “UM-3”, “AA”, “R6P”, or “LR6” type.
- Always replace both batteries at the same time.
- If the remote control is not to be used for a prolonged period, remove the batteries to prevent possible damage by battery leakage.

Using the Remote Control

- 1 To use the remote control, point it at the controller’s “remote control sensor”, as shown below, and press a button.



Chapter 5

Setting Up Your Disklavier Piano

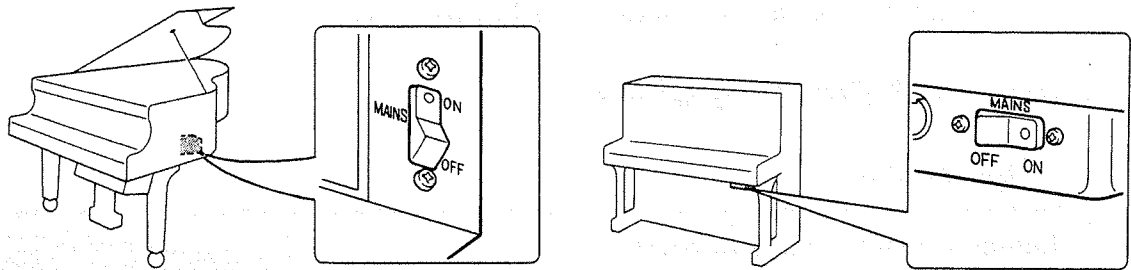
Making the Connections

Connect the Disklavier piano's power cable to an AC receptacle.

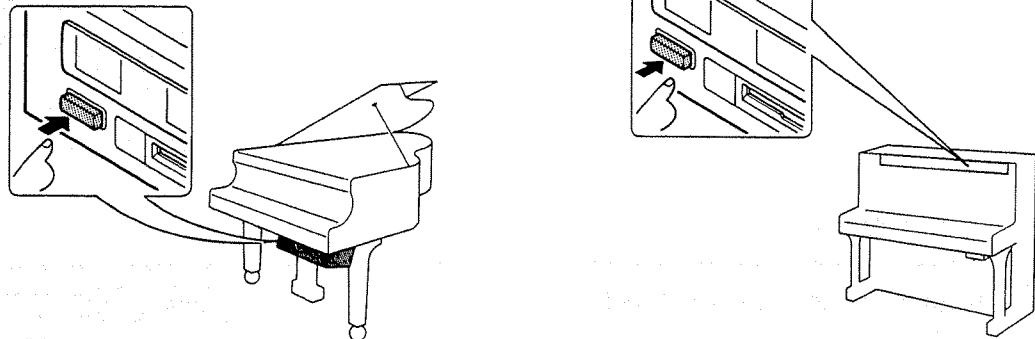
Important: Make sure that the voltage of the AC receptacle matches that marked on the Disklavier piano's Serial No. plate.

Power On Procedure

1 Power on the MAINS switch.



2 Power on the controller by pressing the [POWER] switch.



Power Off Procedure

1 To power off the Disklavier piano, press the controller's [POWER] switch.

Operating the Disklavier piano's MAINS switch is effectively the same as disconnecting the power cable from an AC receptacle. So if the Disklavier piano is used regularly, you only need to use the controller's [POWER] switch. If the Disklavier piano is not going to be used for a long period, power off the MAINS switch.

Note: On the Disklavier upright, the controller must be switched off before switching off the MAINS switch, so that "soft mode", if used, is released. Otherwise, the soft pedal will remain depressed while the Disklavier upright is powered off.

- If the Disklavier piano is powered off, wait 5 seconds before powering on again.

Chapter 6

Using Floppy Disks

Disklavier piano songs are stored on 3.5 inch floppy disks. These disks are reasonably robust, but some rules must be applied when using them. See “Handling Disks” below for details.

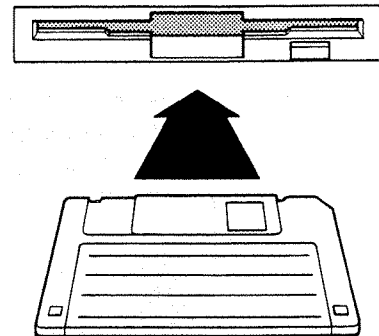
Handling Disks

- Do not touch the surface of a disk.
- Do not store or place disks near to 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 these disks is between 4°C and 52°C (40°F~125°F).
- Do not use disks in a dusty, dirty, or smoky environment.

Inserting & Ejecting Disks

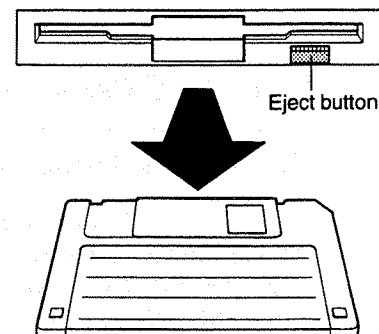
Inserting

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



Ejecting

- 1 To eject a disk, press the Eject button.



The disk will pop out. It can then be removed by hand. Return the disk to its protective case.

Note: Do not eject a disk while playing, recording, or when the message “WRITING TO DISK– DO NOT REMOVE DISK!” is shown on the LCD and the RECORD indicator is flashing. Doing so could seriously damage the disk drive, the floppy disk, and you may lose your song data.

Chapter 7

Song Number Indicator & LCD

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.



Piano Fantastic <00:00>

LCD

The LCD (Liquid Crystal Display) is used in conjunction with most of the Disklavier piano's functions. Here we will explain a few things that you will often see on the LCD during playback.

Disk Title

When a PianoSoft disk or a disk that you have titled yourself is first inserted into the disk drive, or the Disklavier piano is switched on with such a disk already in the disk drive, the disk title will scroll across the LCD.

Song Title

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

Time Display

Playing time is indicated in one of two formats:

minutes and seconds, as shown below,

Piano Fantastic <00:00>

and **measures and beats**, as shown below.

Piano Fantastic <001-1>
♩=117

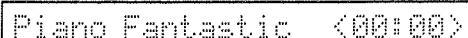
When the time display format is measures and beats, the tempo of the song is also shown on the LCD in beats per minute (bpm).

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 Song Time Format" on page 23 of the *Advanced Operation Manual*.

Pedal Data

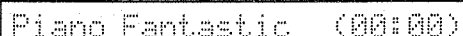
Normal, L/R, and Ensemble songs supplied on the PianoSoft disks may contain one of two types of Pedal data: on/off pedal data or continuous pedal data (half pedal). **On/off pedal data** turns the pedals on and off, whereas **continuous pedal data** (half pedal) can actually position a pedal anywhere within its normal travel (from fully up to fully down).

On/off pedal data is indicated by angle brackets around the time display as shown below.



Piano Fantastic <00:00>

Continuous pedal data (half pedal) is indicated by parentheses around the time display as shown below.



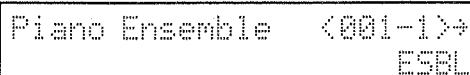
Piano Fantastic (00:00)

All songs that you record yourself will be of the continuous pedal data (half pedal) type and this cannot be changed. However, if you record a song and do not use the pedals, the <> angle brackets will be shown.

Note: No pedal data is recorded for the Disklavier upright's muffler pedal or the "bass sustain" pedal fitted to some Disklavier grands.

Ensemble Songs

If the currently selected song is an Ensemble song, the tempo display will be replaced by the abbreviation "ESBL", meaning ensemble. Also an arrow will appear next to the time counter indicating that another display is available if you press the [→] cursor button.

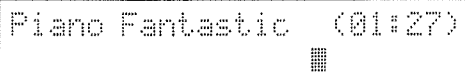


Piano Ensemble <001-1>→
ESBL

See "Ensemble Songs" on page 10 of the *Advanced Operation Manual* for full details.

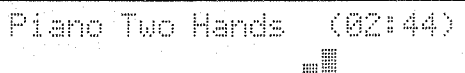
Piano Data Velocity Meters

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



Piano Fantastic (01:27)

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)

L R

Chapter 8

Playback – Basic Functions

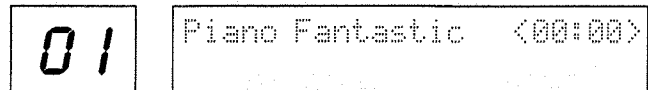
In this chapter we explain the Disklavier piano's basic playback functions, such as starting, pausing, and stopping playback; selecting songs; fast preview and review; fast forward and reverse. Other functions include volume, tempo, and transposition. All these functions can be used with Normal, L/R, and Ensemble songs.

Note: Before any of the playback functions can be used, you must insert a floppy disk that contains Disklavier piano songs into the disk drive (use the Disklavier piano *Sample Disk*).

Starting Playback

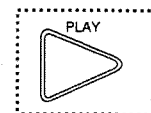
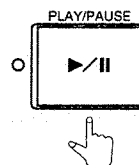
1 Insert your song disk into the disk drive.

If it is a PianoSoft disk, the disk title will scroll across the LCD. When the disk title has finished scrolling, the number and title of the first song on the disk will be displayed, for example:



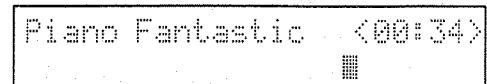
Pressing the [STOP] button will stop the disk title scrolling and the number and title of the first song on the disk will be displayed.

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



<Remote Controller>

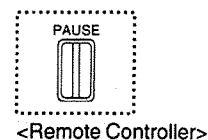
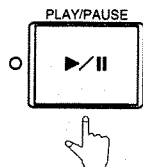
The PLAY/PAUSE indicator will light up and song No. 1 will start playing. Also the time display will start counting up and the LCD velocity meters will show the velocity of the notes currently being played, as shown.



- Playback can also be started using a foot switch. See "Using a Start/Stop Foot Switch" on page 103 of the *Advanced Operation Manual*.

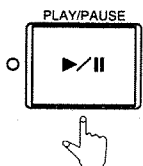
Pausing Playback

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



Playback will stop at the current position in the song and the PLAY/PAUSE indicator will flash.

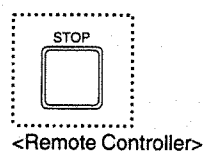
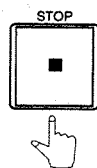
- 2 Press the [PLAY/PAUSE] button again to restart playback.



- Playback can also be paused using a foot switch. See “Using a Start/Stop Foot Switch” on page 103 of the *Advanced Operation Manual*.

Stopping Playback

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

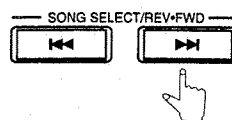
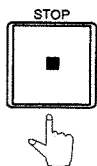


Playback will stop and the currently selected song will return to the beginning.

- Pressing the [STOP] button while in Pause mode will cancel Pause mode.

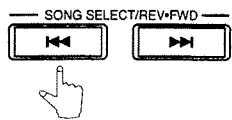
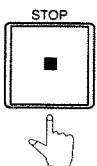
Selecting Songs

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



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

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



- If the currently selected song is No. 1 and the [SONG SELECT ◀◀] button is pressed, the disk title will scroll across the LCD. To stop the title scrolling, press the [STOP] button.

Selecting Songs Using the Remote Control

Using the remote control's [SONG SELECT] buttons or number pad, songs can be selected during playback, in Stop mode, or in Pause mode.

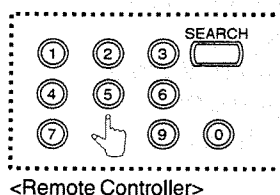
Using the [SONG SELECT] Buttons

- 1 Press the remote control's [SONG SELECT] buttons to select a song.



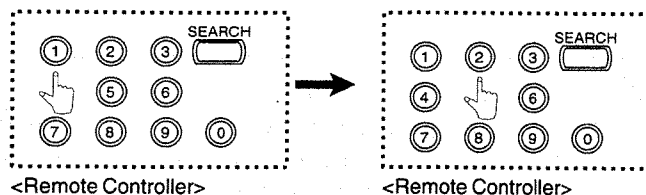
Direct Selection Using the Number Pad

- 1 To select songs 1 to 9, press the corresponding number button on the remote control.



For example, to select song number 5, press number button [5].

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



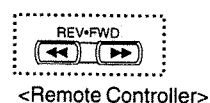
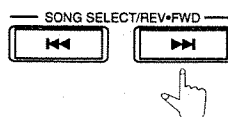
For example, to select song number 12, press number button [1], then press number button [2].

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

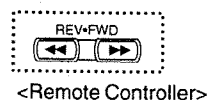
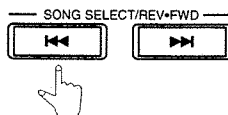
Fast Preview & Review

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

- 1 To quickly preview the rest of the song that is currently playing, press the [SONG SELECT/FWD] button.



- 2 To quickly review the song that is currently playing, press the [SONG SELECT/REV] button.

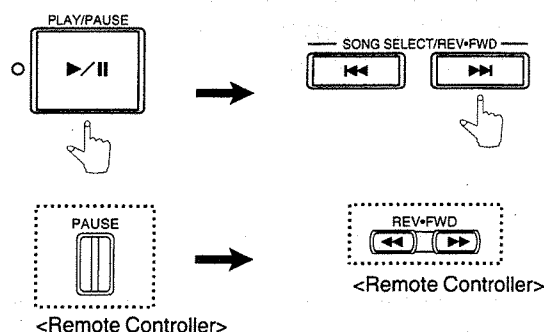
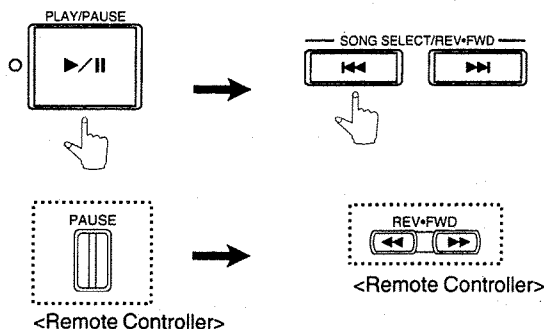


3 To continue playback, press the [PLAY/PAUSE] button.**To engage Pause mode, press the [STOP] button.**

- If a song is reviewed all the way back to the beginning, Pause mode will be engaged. Pressing [PLAY/PAUSE] will play the song again.
- If a song is previewed all the way to the end, Pause mode will be engaged. Pressing [PLAY/PAUSE] will start the next song playing.

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.

1 To fast forward the song that is currently playing, press the [PLAY/PAUSE] button to engage Pause mode, then press the [SONG SELECT/FWD] button.**2 To reverse the song that is currently playing, press the [PLAY/PAUSE] button to engage Pause mode, then press the [SONG SELECT/REV] button.**

- The PLAY/PAUSE indicator will flash quickly and the time display will show the current position in the song.

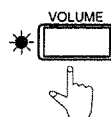
3 To continue playback, press the controller's [PLAY/PAUSE] button or the remote control's [PLAY] button. To engage Pause mode, press the controller's [STOP] button or the remote control's [PAUSE] button.

- If a song is fast forwarded all the way to the end, Pause mode will be engaged. Pressing [PLAY/PAUSE] will start the next song playing.
- If a song is reversed all the way back to the beginning, Pause mode will be engaged. Pressing [PLAY/PAUSE] will play the song again.

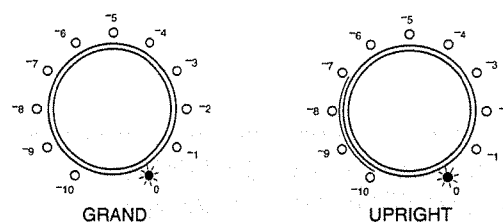
Adjusting the Volume

The playback volume can be adjusted as desired. All songs are recorded with a volume level setting of 0 (maximum volume setting), so the volume level can only be **decreased**, not increased.

- 1 Make sure that the **VOLUME** indicator is lit. If it isn't, press the **[VOLUME]** button.



- 2 Turn the Dial or use the **[-/NO]** and **[+/YES]** buttons to set a volume level.

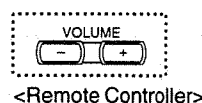


The volume level setting is shown by the ring of indicators around the Dial.

- Pressing the [0] button will instantly set the volume to 0 (Max.)

Note: On the Disklavier upright, a “soft mode” setting in the range -7 to -10 will reduce the volume and activate the soft pedal mechanism.

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



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

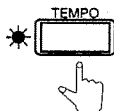
- The volume level setting is remembered when the controller is turned off.

Note: This volume setting is for song playback only and has no effect when the Disklavier piano is played manually. However, on the Disklavier upright, a “soft mode” setting in the range -7 to -10 will depress the soft pedal, so choose another volume setting before playing the Disklavier upright manually.

Changing the Playback 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.

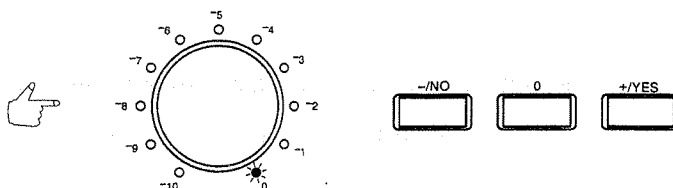
1 Press the [TEMPO] button.



The TEMPO indicator will light up and “00%” will flash on the LCD.

Piano Fantastic (00:00)
00%

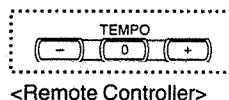
2 Turn the Dial or use the [-/NO] and [+ /YES] buttons to change the tempo.



The [-/NO] button decreases the tempo, and the [+ /YES] button increases the tempo. The [0] button resets the tempo to 00%.

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

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



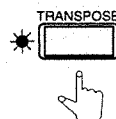
The [-] button decreases the tempo, and the [+] button increases the tempo. The [0] button resets the tempo to 00%.

- Once the tempo has been changed, the tempo value will be shown continuously on the LCD.
- Tempo changes remain in effect until recording is started, the disk is ejected, or the Disklavier piano is switched off.
- Tempo changes to songs that you have recorded yourself can be made permanent. See “Changing Song Tempo” on page 22 of the *Advanced Operation Manual*.

Transposing Playback

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 song recording.

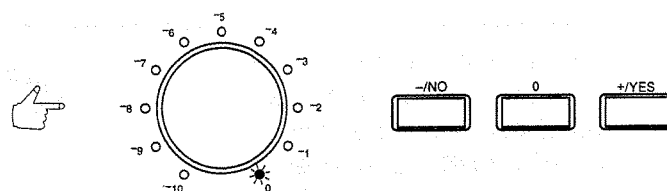
1 Press the [TRANPOSE] button.



The TRANPOSE indicator will light up and “TRANS 00” will flash on the LCD.

Piano Fantastic (00:00)
TRANS 00

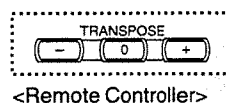
2 Turn the Dial or use the [-/NO] and [+ /YES] buttons to transpose.



The [-/NO] button decreases the transposition value, and the [+ /YES] button increases the transposition value. The [0] button resets the transposition value to 00.

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

3 On the remote control, use the [TRANPOSE] 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 will be shown continuously on the LCD.
- Transposition changes remain in effect until recording is started, the disk is ejected, or the Disklavier piano is switched off.

Chapter 9

Playback – Advanced Functions

In this chapter we look at some of the more advanced playback functions, such as the various Repeat modes, starting playback from a specified point in a song, operating the pedals yourself, and practice playing with the metronome. All these functions can be used with Normal, L/R, and Ensemble songs.

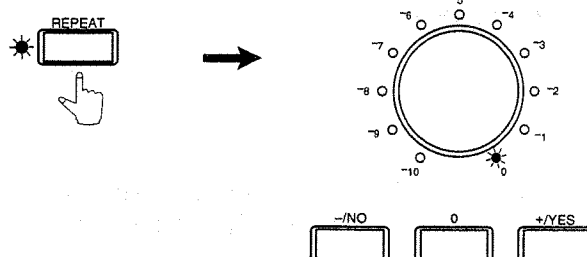
Repeated Playback – ALL, RPT & RND

ALL Repeat mode — all the songs on a disk are played continually.

RPT Repeat mode — the selected song is played continually.

RND Repeat mode — all the songs on a disk are played continually in a random order.

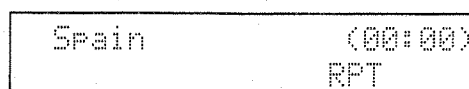
- 1 On the controller, press the [REPEAT] button, then use the Dial or the [–/NO] and [+ /YES] buttons to select a repeat mode: ALL, RPT, or RND.



To select a Repeat mode using the remote control, repeatedly press the [REPEAT] button until the name of the desired mode appears on the LCD.



The REPEAT indicator will light up and the selected mode will flash on the LCD. For example:



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

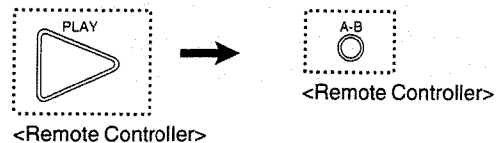
- 3 To cancel Repeat mode, press the controller's [REPEAT] button or repeatedly press the remote control's [REPEAT] button until "OFF" appears on the LCD.

Repeated Playback between Two Points (A-B)

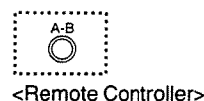
In the A-B Repeat mode, playback is repeated between two specified points in a song: point A and point B. This could be used when practicing a difficult section of a song or for repeated playback of your favorite section in a song.

Using the Remote Control for A-B Repeat Mode

- 1** To set the A point, start playback, then press the [A-B] button when the desired point is reached. The A point will be memorized and the "B" of "A-B" will flash on the LCD.

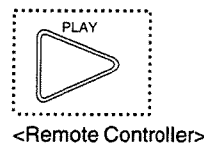


- 2** To set the B point, press the [A-B] button again. The B point will be memorized and the "B" of "A-B" will stop flashing.

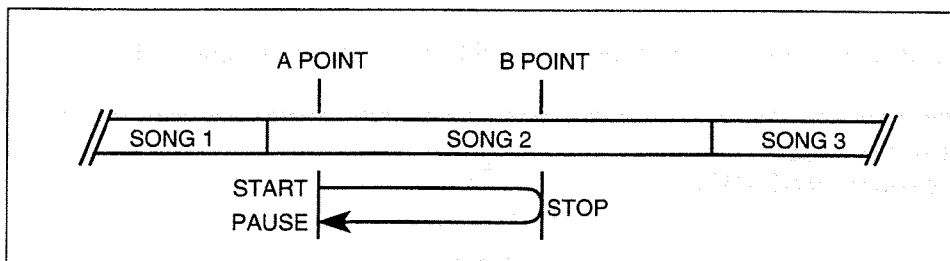


Playback will stop, the song will return to point A, and Pause mode will be engaged.

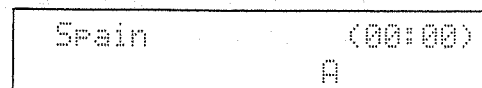
- 3** To play back the specified section, press the [PLAY] button.



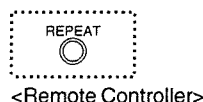
Playback will start from point A, continue up to point B, stop, return to point A, and Pause mode will be engaged.



- 4** To cancel A-B Repeat mode, press the [A-B] button so that the letter "A" is flashing on the LCD.

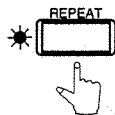


Then, press the [REPEAT] button.



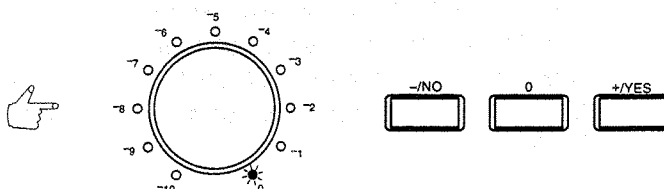
Using the Controller for A-B Repeat Mode

- 1** Press the [REPEAT] button.

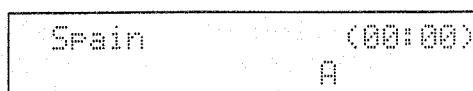


The REPEAT indicator will light up and “ALL” will flash on the LCD.

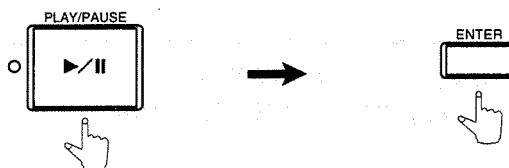
- 2** Use the Dial or the [-/NO] and [+ /YES] buttons to select “A”.



The letter “A” will flash on the LCD.



- 3** Press the [PLAY/PAUSE] button to start playback, then press the [ENTER] button to specify point A.

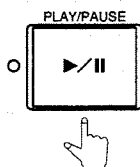


- 4** Press the [ENTER] button again to specify point B.



Playback will stop, the song will return to point A, and Pause mode will be engaged.

- 5** To play back the specified section, press the [PLAY/PAUSE] button.



Playback will start from point A, continue up to point B, stop, return to point A, and Pause mode will be engaged. See the illustration on the previous page.

- 6** To cancel A-B Repeat mode, press the [0] button, “A” will flash on the LCD, then press the [REPEAT] button.

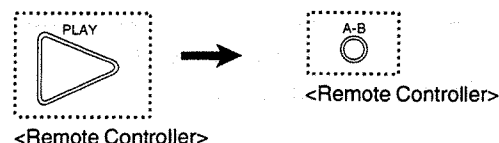


Repeatable Playback Start from One Point (A-)

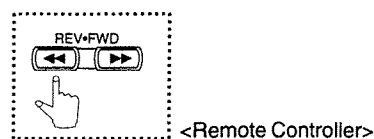
In the A- Repeat mode, playback can be rewound and started from a specified point in a song: point A. This is similar to the A-B Repeat mode except that only point A is specified. Like the A-B Repeat mode, this mode can be used for practicing.

Using the Remote Control for A- Repeat Mode

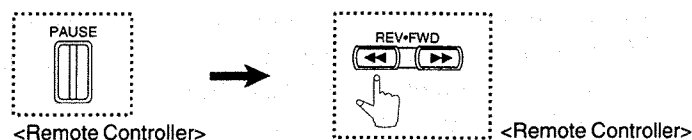
- 1 To set the A point, start playback, then press the [A-B] button when the desired point is reached.



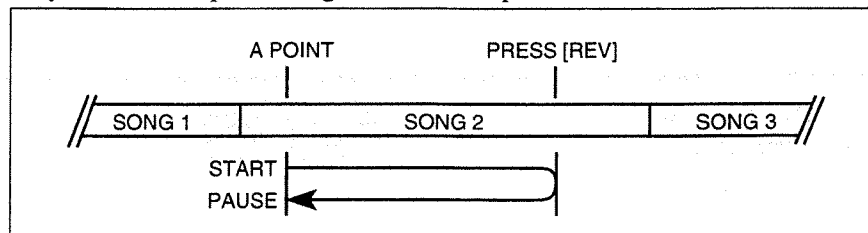
- 2 When you want to return to point A, press the [REV] button to review to point A.



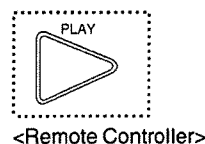
Alternatively, press the [PAUSE] button followed by the [REV] button to reverse to point A.



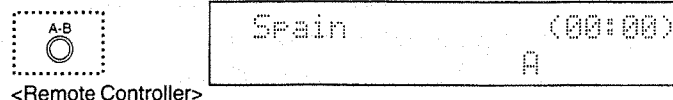
Playback will stop, the song will return to point A, and Pause mode will be engaged.



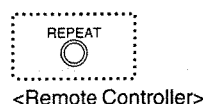
- 3 To start playback from point A, press the [PLAY] button.



- 4 To cancel A- Repeat mode, return to point A, and in Pause mode press the [A-B] button so that the letter "A" flashes on the LCD.



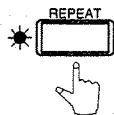
Then, press the [REPEAT] button.



Note: A- Repeat mode cannot be cancelled during playback.

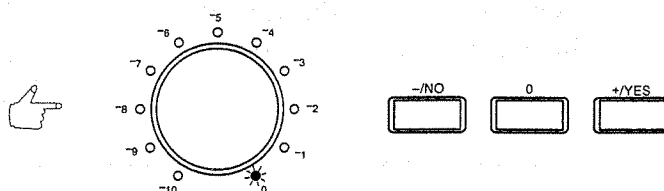
Using the Controller for A- Repeat Mode

- 1** Press the [REPEAT] button.

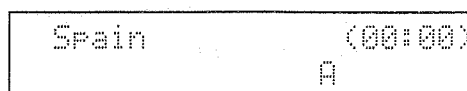


The REPEAT indicator will light up and “ALL” will flash on the LCD.

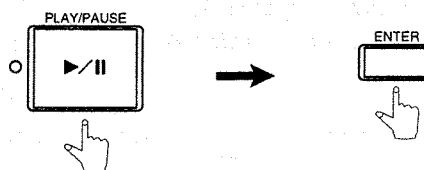
- 2** Use the Dial or the [-/NO] and [+ /YES] buttons to select “A”.



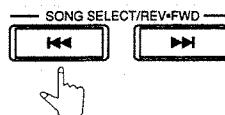
The letter “A” will flash on the LCD.



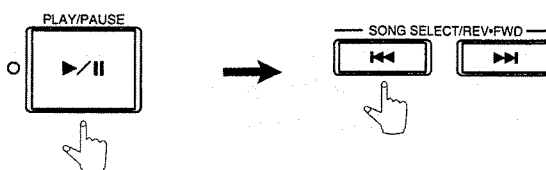
- 3** Press the [PLAY/PAUSE] button to start playback, then press the [ENTER] button to specify point A.



- 4** After specifying point A, press the [SONG SELECT ◀◀] button to review to point A.

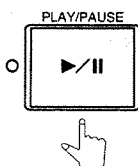


Alternatively, press the [PLAY/PAUSE] button followed by the [SONG SELECT ◀◀] button to reverse to point A.



Playback will stop, the song will return to point A, and Pause mode will be engaged. See the illustration on the previous page.

- 5** To start playback from point A, press the [PLAY/PAUSE] button.



- 6** To cancel A- Repeat mode, press the [0] button, “A” will flash on the LCD, then press the [REPEAT] button.



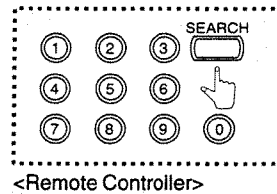
Starting Playback from a Specified Point (Search)

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, the point you specify will be in minutes and seconds. If the current song uses the measures and beats time format, the point you specify will be in measures and beats.

Note: This function can only be operated from the remote control.

1 Press the [SEARCH] button.



The time counter on the LCD will flash.

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].

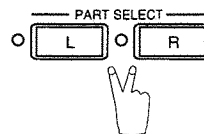
3 Press the [SEARCH] button again.

- If this function is used in Stop or Pause mode, Pause mode will be engaged when the specified point is found. If it is used in Play mode, playback will continue when the specified point is found. To cancel the search, press the [STOP] button.
- When a time value has been entered, it will be remembered until the disk is ejected or the Disklavier piano is switched off. So if you want to find the same point again, just press the [SEARCH] button twice.
- To search for a new point, repeat step 2. However, if the new 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 time value that is higher than the total length of the song, the end of the song will be found.

Operating the Pedals Yourself

During playback, the Disklavier piano pedals play the pedal data that was recorded with the song. However, if you want to practice your pedal playing, you can cancel the pedals and operate them yourself.

1 Press the [PART SELECT L] and [PART SELECT R] buttons simultaneously and hold them down until "PD off" appears on the LCD.

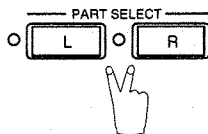


You can now play the pedals yourself.

The letters “PDoff” will remain on the LCD until the pedals are turned on again.

Etudes No.5 (00:00)
PDoff

- 2** To turn the pedals on again, press the [PART SELECT L] and [PART SELECT R] buttons simultaneously and hold them down until “PD on” appears on the LCD.



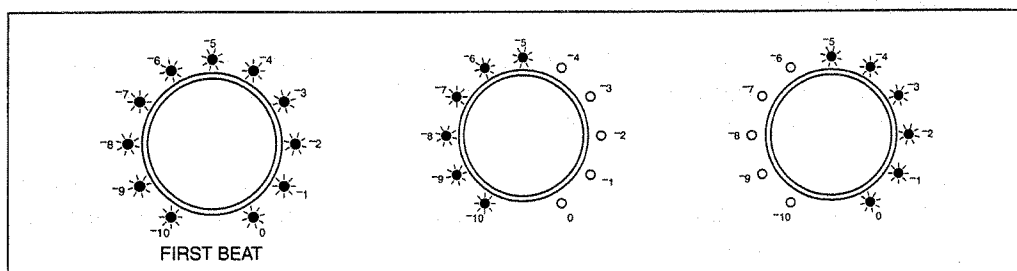
The letters “PD on” will flash on the LCD for a few seconds, and then go off.

Etudes No.5 (00:00)
PD on

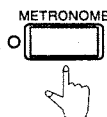
Practice Playing Using the Metronome

The Disklavier piano’s metronome can be used for practice playing. **You do not need to insert a disk** into the controller to use this function.

With each beat of the metronome a short beep is produced by the controller. The first beat of each measure is indicated by a slightly longer beep: the beep can be turned off. In addition to the beep, the ring of indicators around the Dial flash. On the first beat of each measure, all the indicators flash. On the remaining beats, the indicators on either side of the Dial flash alternately.



- 1** To set up the metronome, press the [METRONOME] button.



The METRONOME indicator will light up and the following display will be shown.

--METRONOME-- (-, +, ←, →)
BEEP=ON 117 >4/4 →

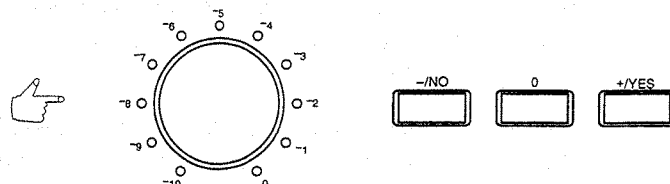
The following table shows how the metronome parameters can be set.

PARAMETER	RANGE	NOTES
BEEP	ON/OFF	Switches internal beep on/off. If set to off, the Dial indicators still flash
TEMPO	40 to 230 bpm	bpm (beats per minute), 1 beat = 1 quarter note (crotchet)
TIME SIGNATURE	1/4, 2/4, 3/4, 4/4, 5/4, 6/4, 7/4, 8/4, 9/4	

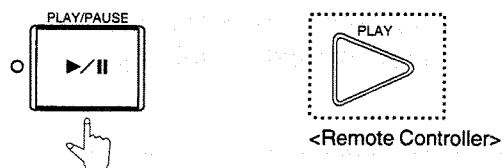
- 2** Use the [←] [→] cursor buttons to select a parameter: tempo, time signature, or beep.



- 3** Use the Dial or the [-/NO] and [+/YES] buttons to set the selected parameter.



- 4** To start the metronome, press the [PLAY/PAUSE] button.



- 5** To pause the metronome, press the [PLAY/PAUSE] button.

When the metronome is paused, it temporarily stops on the last beat and the Dial indicators remain lit. When it is restarted, it continues from the next beat.

- 6** To restart the metronome, press the [PLAY/PAUSE] button.

- 7** To stop the metronome, press the [STOP] button.



- To cancel the metronome function, press the [METRONOME] button.
- All metronome parameters are reset when a disk is ejected or the Disklavier piano is switched off.
- The tempo of a MIDI sequencer can be controlled by the metronome. See “Start/Stop Control from the Disklavier Piano” on page 92 of the *Advanced Operation Manual* for details.

Chapter 10

L/R Song Playback

In L/R and Ensemble songs, the left-hand piano part is stored on track 1 (L) and the right-hand piano data is stored on track 2 (R). For playback, either part can be cancelled using the part select function. This can be useful when you want to practice one part yourself while the Disklavier piano plays the other.

All the functions explained in “Playback – Basic Functions” on page 17 and “Playback – Advanced Functions” on page 24 can be used with L/R songs.

Cancelling the Left-Hand or Right-Hand Piano Part

- 1 When an L/R song is selected, the **PART SELECT** indicators light up as shown.



- 2 To cancel the left-hand part, press the **[PART SELECT L]** button. To cancel the right-hand part, press the **[PART SELECT R]** button.

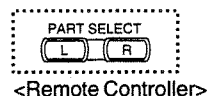


When a part is cancelled, that piano part will not play and its PART SELECT indicator will flash.

- 3 To switch a part back on again, press the respective **[PART SELECT]** button again.



- 4 A part can also be cancelled by using the **[PART SELECT]** buttons on the remote control.



- L/R songs are explained in detail on page 8 of the *Advanced Operation Manual*.

Chapter 11

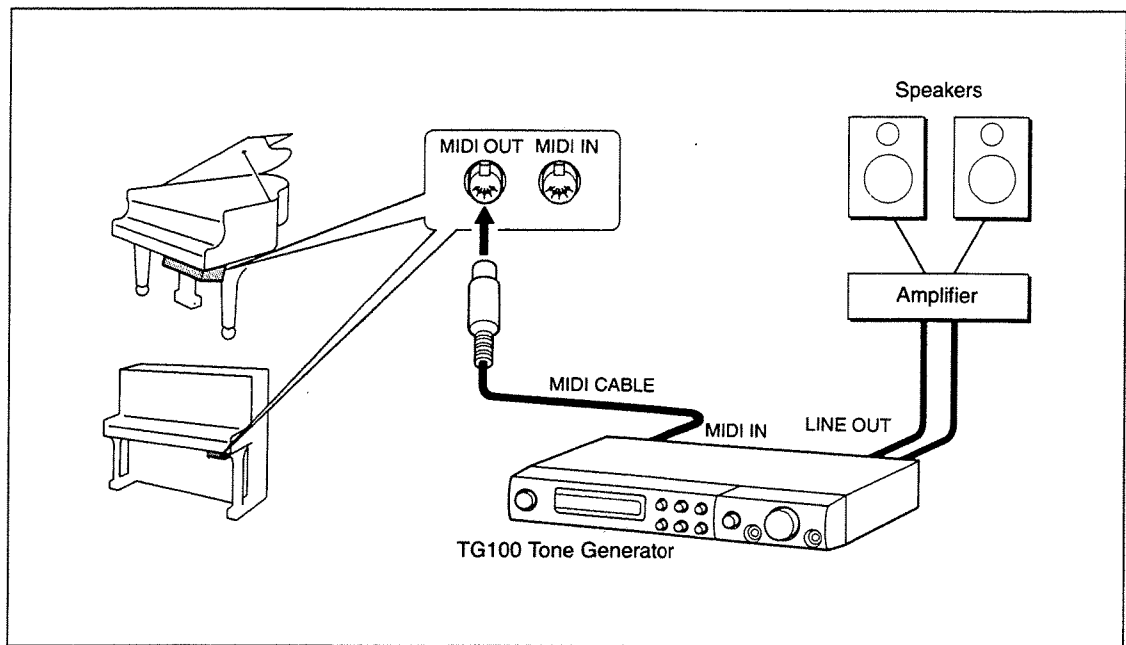
Ensemble Song Playback

PianoSoft•Plus Ensemble songs contain the same left and right-hand parts as an L/R song, and in addition, up to 13 accompanying instrument tracks. These extra tracks are played by an external MIDI tone generator, which can be connected to the Disklavier piano's MIDI OUT connection. The accompanying tracks may be used for acoustic bass, drums, strings, vibes, etc.

All the functions explained in "Playback – Basic Functions" on page 17 and "Playback – Advanced Functions" on page 24 can be used when playing Ensemble songs. The Part Select function can also be used. See "Cancelling the Left-Hand or Right-Hand Piano Part" on page 32.

Connecting a MIDI Tone Generator

To enjoy PianoSoft•Plus Ensemble songs, connect a Yamaha TG100 Tone Generator to your Disklavier piano as shown below.



When an Ensemble song starts playing, MIDI Program Change messages are sent from the Disklavier piano to the tone generator. These Program Change messages tell the tone generator which voices to select for each ensemble track. This ensures that a bass guitar track is always played by a bass guitar, a strings track is always played by a strings voice, etc.

The Disklavier piano can also be used with a MIDI drum machine, synthesizer, or sequencer. See "The Disklavier Piano & MIDI" on page 92 of the *Advanced Operation Manual* for full details.

- Ensemble songs are explained in detail on page 10 of the *Advanced Operation Manual*.

