



disklavier™

YMM Series

Operation Manual

FCC INFORMATION (U.S.A.)

1. IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!

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

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

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

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

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

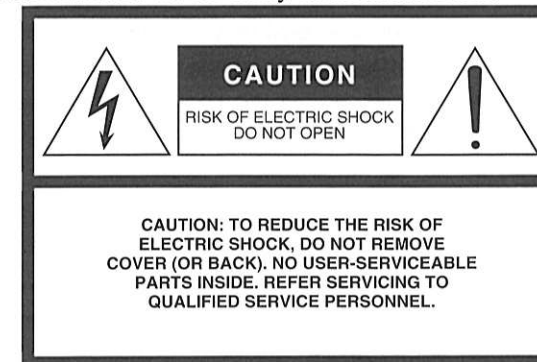
In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to co-axial type cable.

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

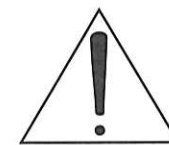
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SPECIAL MESSAGE SECTION

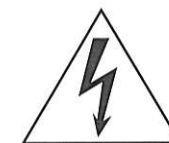
PRODUCT SAFETY MARKINGS: Yamaha electronic products may have either labels similar to the graphics shown below or molded/stamped facsimiles of these graphics on the enclosure. The explanation of these graphics appears on this page. Please observe all cautions indicated on this page and those indicated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



SEE BOTTOM OF ENCLOSURE OR LOWER FRONT PANEL FOR GRAPHIC SYMBOL MARKINGS



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

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:

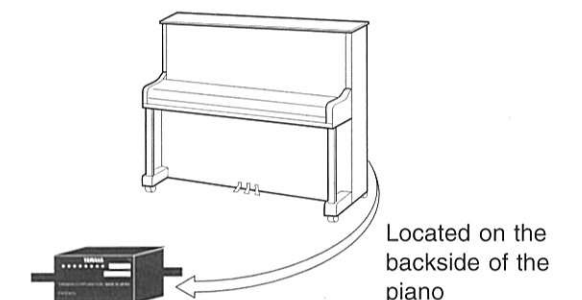
Battery Notice: This product MAY contain a small nonrechargeable battery which (if applicable) is soldered in place. The average life span of this type of battery is approximately five years. When replacement becomes necessary, contact a qualified service representative to perform the replacement.

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. This product 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 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 lightning 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.

Important

Read the following before operating the Disklavier.

Warnings

- Do not locate the Disklavier in a place subject to excessive heat, low temperatures, or direct sunlight. This could be a fire hazard and may damage the finish and internal parts.
- Excessive humidity or dust can lead to fire or electric shock.
- Connect the plug on the Disklavier power cable to a compatible AC outlet. Failure to do so will present a fire and electric shock hazard. If the power cable plug is not compatible with your AC outlet, consult your dealer.
- Do not plug several devices into the same AC outlet. This can overload the AC outlet, and lead to fire and electric shock hazard. It may also affect the performance of some devices.
- Do not place heavy objects on the power cable. A damaged power cable is a potential fire and electric shock hazard. If the power cable runs under a carpet, make sure heavy objects, including the Disklavier, are not placed on top of the cable.
- If the power cable is damaged (i.e. cut or a bare wire is exposed), ask your dealer for a replacement. Using the Disklavier in this condition is a fire and shock hazard.
- When disconnecting the power cable from an AC outlet, always pull from the plug. Never pull the cable. Damaging the cable in this way is a potential fire and electric shock hazard.
- The cover of the unit should be removed only by qualified service technicians.
- Do not place liquid containers such as vases, potted plants, glasses, cosmetic bottles, medicines, etc., on top of the Disklavier.
- Do not try to modify the Disklavier, as this could lead to fire or electric shock hazard.
- When moving the Disklavier to another location, turn off the power, remove the power plug from the AC outlet, and remove all cables connected to external devices.

Cautions

- Turn off all audio devices when connecting to the Disklavier. Refer to the user's guide for each device. Use the correct cables and connect as specified.
- Set the volume level on all the devices to minimum before applying power.
- Do not play the Disklavier at a high volume for extended periods; you may damage your hearing. This is especially important when using headphones. If you think your hearing ability is impaired, consult your doctor.
- If the Disklavier is worked extremely hard – that is, prolonged playback of very “busy” songs – the Disklavier's thermal relay may trip. The thermal relay will automatically reset when the Disklavier has cooled down.
- If you notice any abnormality – such as smoke, odor, or noise – turn off the Disklavier immediately, and remove the power plug from the AC outlet. Consult your dealer for repair.
- If a foreign object or water gets inside the Disklavier turn it off immediately, and remove the power plug from the AC outlet. Consult your dealer.
- If you plan not to use the Disklavier for a long period of time (such as when you are on vacation), disconnect the electrical mains.

- Always remove the power plug from the AC outlet before cleaning the Disklavier. Leaving the power plug connected presents a risk of electric shock.
- Do not use benzene, thinner, cleaning detergent, or a chemical cloth to clean the Disklavier.
- Do not place metal objects with rubber feet on top of the Disklavier. The color and finish of the Disklavier can be damaged.
- Do not place heavy objects on the Disklavier. Doing so can damage the Disklavier.
- Use a soft, dry cloth to clean the Disklavier. However, if you discover a stain, carefully use a soft damp cloth to remove it.

Interference

- The Disklavier uses high-frequency digital circuits that may cause interference to radios and TVs placed close to it. If interference does occur, relocate the affected equipment.

Handling Batteries

The remote control of this unit is powered by dry batteries. Improper use or misuse of the dry batteries can cause the dry batteries to heat up, leak electrolyte or burst which in turn may result in a fire, damage to equipment and/or nearby objects or in burns, injury or other bodily harm. Read through and familiarize yourself with the following safety precautions prior to use to ensure correct usage.

- Do not directly touch the chemicals (electrolyte) which have leaked from dry batteries.
 1. If electrolyte from dry batteries has made contact with your eyes, rinse your eyes thoroughly with clean water and seek medical treatment from a physician immediately.
 2. If electrolyte from dry batteries has touched your skin or clothing, rinse it off immediately with clean water.
 3. If electrolyte from dry batteries has found its way inside your mouth, gargle immediately and consult a physician.
- Do not install the dry batteries with the “+” and “-” poles reversed. Misaligning the poles of dry batteries can lead the dry batteries to be charged or shorted or it can cause them to heat up, leak electrolyte or burst which in turn may result in a fire, damage to nearby objects or in burns, injury or other bodily harm.
- Use only the designated batteries. Do not use used batteries with unused batteries or different types of batteries together. This can cause them to heat up, leak electrolyte or burst which in turn may result in a fire or in burns, injury or other bodily harm. Replace all the dry batteries at the same time. Do not use new and old dry batteries together. Do not use different types of batteries (alkaline and manganese batteries, batteries made by different manufacturers or different battery products made by the same manufacturer) together: this can cause them to heat up, ingite or leak electrolyte.
- When the battery-powered unit is not going to be used for a prolonged period of time, remove the dry batteries from the unit. Otherwise the batteries will run down and their electrolyte may leak, resulting in damage to the unit.
- Remove spent batteries immediately from equipment. Otherwise, batteries will overdischarge, causing them to heat up, leak electrolyte or burst which in turn may result in damage to nearby objects or in burns, injury or other bodily harm.
- Dispose of batteries in accordance with the applicable regulations and ordinances.

Please keep this manual for future reference.

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Chapter 1

Introduction

Welcome to the Disklavier Piano!

Thank you for purchasing the Disklavier piano!

The Disklavier is a fascinating instrument that integrates a classic Yamaha acoustic piano with innovative electronics to suit your entertainment, educational, and creative needs, while retaining the tone, touch and long-term value that have long made Yamaha pianos the world's finest.

Versatile Playback Functions

Using an advanced system of fiber-optic sensors, the Disklavier ensures that even the most demanding performance is played back faithfully. A variety of playback controls — volume, tempo, transposition, repeat and search — offers exceptional flexibility for music study, accompaniment and other activities. A built-in metronome is also provided. With L/R recorded music, you can listen to one hand at a time or practice one hand while the Disklavier plays the other. A vast library of Yamaha PianoSoft™ and PianoSoft-Plus™ disks offer world-class professional performances that you can play back on your Disklavier.

Integral Recording Functions

Songs you play on the Disklavier can be recorded with great accuracy. Specially designed optical key sensors register every aspect of the player's performance. Songs can be recorded onto the internal Memory Disk, which provides 1MB of memory, or onto standard 3.5" 2DD or 2HD floppy disks. As left- and right-hand parts can be recorded either separately or together, you can record an inspired performance or compose pieces for four hands and Ensemble songs as well.

Internal XG Tone Generator Features

A Yamaha XG tone generator gives you access to a full spectrum of instrumental accompaniment. You can listen to fully orchestrated Ensemble songs or select from the variety of instrumental voices available to create your own Ensemble song. Compatible with Yamaha XG and General MIDI standards, the internal tone generator can deliver nearly 700 instrumental and percussion voices.

Music Editing & Utility Functions

The Disklavier supports both Standard MIDI File and E-SEQ format songs and disk types. For compatibility, song formats and disk types can be converted. Other functions include versatile track editing capabilities, plus formatting, copying, and titling disks.

Innovative External Interface

With a simple cable connection, you can play back and record songs using external MIDI devices, such as synthesizers and sequencers. You can also connect your Disklavier directly to a personal computer for a variety of uses.

Items Supplied with the Disklavier _____

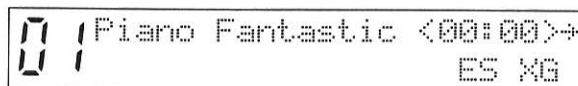
Check that the following items are supplied with your Disklavier.

1	Remote Control
2	Batteries for the Remote Control
1	Disklavier Sample Disk (PianoSoft)
1	Blank Floppy Disk
1	Operation Manual

Conventions Used in the Disklavier Manuals _____

Control Unit Display

The LCD on the Control Unit is used in conjunction with most of Disklavier's functions, for setting parameters, selecting options and displaying various information.



Whenever a song is selected, the song number is indicated by the 2-digit indicator. However, in this manual actual numbers have been omitted.

Control Unit and Remote Control Buttons

Many of the Disklavier's functions can be operated using either the Control Unit or the remote control. When the remote control can be used, the relevant remote control button is illustrated, for example, as below.



When a Control Unit 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.

Pedals

The Disklavier pedals are named as follows throughout this manual.

Left	Right
Soft Pedal	Sustain Pedal

Trademarks & Copyright _____

Yamaha, Disklavier, PianoSoft, and PianoSoft-Plus are trademarks of Yamaha Corporation. Unauthorized copying of PianoSoft or PianoSoft-Plus disks is prohibited.

Basic Disklavier Terminology _____

The following is a list of several basic Disklavier words that you may need to know before proceeding with operational procedures in this manual. For other Disklavier terminology, see the glossary provided on page 139.

Disk

"Disk" is used as a generic term to refer to both the floppy disk and internal Memory Disk. All Disklavier playback, recording, and disk utility functions can be used for both the internal Memory Disk and floppy disks.

Ensemble Song

An Ensemble song contains the same left and right-hand parts as an L/R song, and extra tracks that are played by the internal XG tone generator. Accompanying tracks can include acoustic bass, drums, strings, vibes, etc.

Floppy Disk

The magnetic storage medium that the Disklavier uses to save songs. The Disklavier uses 3.5 inch 2DD and 2HD floppy disks.

L/R Song

In a 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 practice that part yourself. When recording an L/R song, you can record the two parts simultaneously or separately.

Memory Disk

The Disklavier also has an internal Memory Disk that allows you to store song data without a floppy disk.

MIDI

An acronym for Musical Instrument Digital Interface. MIDI allows electronic musical instruments to communicate with each other.

PianoSoft™

The PianoSoft Disk Collection is a library of prerecorded song disks, made by Yamaha, specially for use with the Disklavier Series. 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 is sometimes used as a generic term for PianoSoft and PianoSoft-Plus.

PianoSoft-Plus™

PianoSoft-Plus disks contain prerecorded Ensemble songs featuring instrumental accompaniment that can be played on the Disklavier. Since this Disklavier has an XG compatible tone generator built in, all you need to start playing an Ensemble song is amplified speakers.

See your Disklavier dealer for a PianoSoft catalog.

Polyphony

The maximum number of voices (different sounds) that can be produced at a time.

Soft Mode

A volume setting for the Disklavier in normal mode, in the range -7 to -10. In this mode, playback volume is greatly reduced by the extended use of the soft pedal mechanism.

Song

A “song” usually means a short piece of music with lyrics. However, in the Disklavier manuals, the term “song” is used to refer to any piece of music.

XG

Yamaha XG is an extension of the GM (General MIDI) format. With greater polyphony, more voice, and effects, it improves song compatibility between MIDI devices. When a song in the Yamaha XG format is played on another XG compatible tone generator or synthesizer, it will play and sound as the original composer/creator intended.

Application Guide

Acoustic Piano Playing

The Disklavier is foremost a fine acoustic piano. The optical sensor system does not interfere in the least with the renowned “touch” of a Yamaha piano. Therefore, you can always play your Disklavier as you would any other Yamaha piano.

Note: It is not necessary to switch on the Disklavier when you simply want to play the piano.

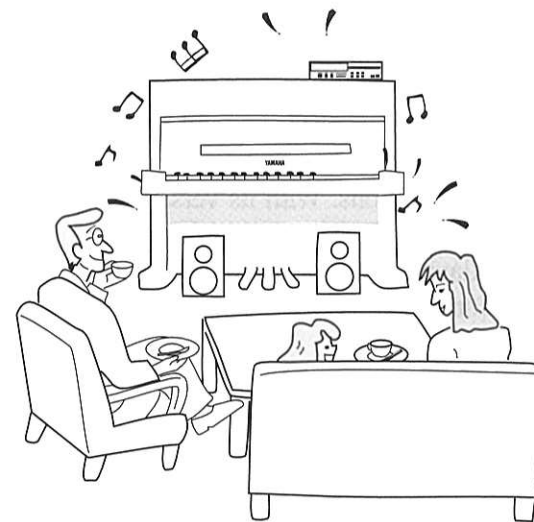
A Wide Variety of Applications

The Disklavier is a wonderfully flexible instrument. This section offers a few general ideas on how you can take the best advantage of your Disklavier.

The following applications are briefly described in this section:

- Home Listening Pleasure
- Music Education and Practice
- Vocal or Instrumental Accompaniment
- Ensemble Playing Using the Internal XG Tone Generator
- MIDI Musicians and Computer-Based Music Systems

Home Listening Pleasure

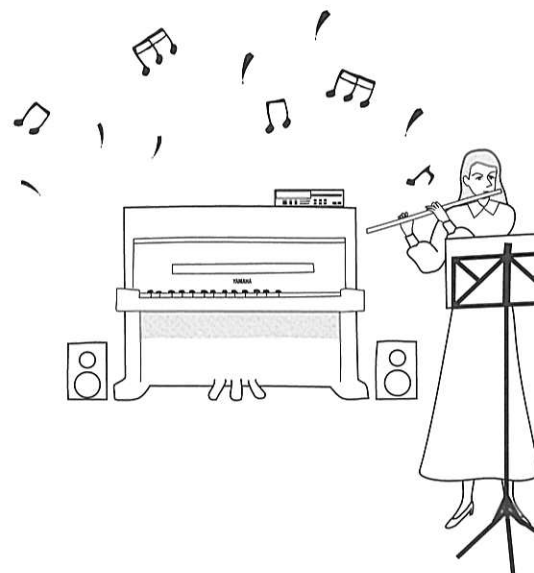


You can use your Disklavier to provide live piano entertainment in your home, at any time. The comprehensive PianoSoft collection offers a library of music that the whole family can enjoy, including selections from classical, jazz, easy listening, and popular music.

The full-function remote control enables you to control the Disklavier from your favorite armchair.

When entertaining guests, the Disklavier can be used to provide live or pre-recorded genuine piano performance.

Vocal or Instrumental Accompaniment



With its versatile playback functions, the Disklavier is an ideal accompanist for solo vocal, chorus, flute, violin, trumpet, etc.

Better still, Disklavier accompaniment can be played at different tempos, in different keys, and any song or passage can be repeated again and again — with far more patience than any living accompanist could muster!

Ensemble Playing Using the Internal Tone Generator



The Disklavier reproduces not only live piano music, but digital accompaniment as well, thanks to the internal XG tone generator. You can play back PianoSoft-Plus pre-recorded Ensemble songs and enjoy the sound of a variety of instruments — brass, woodwind, strings, bass, percussion, and more. You can also compose and record your own, assembling up to 16 different instrument parts.

MIDI Musicians and Computer-Based Music Systems

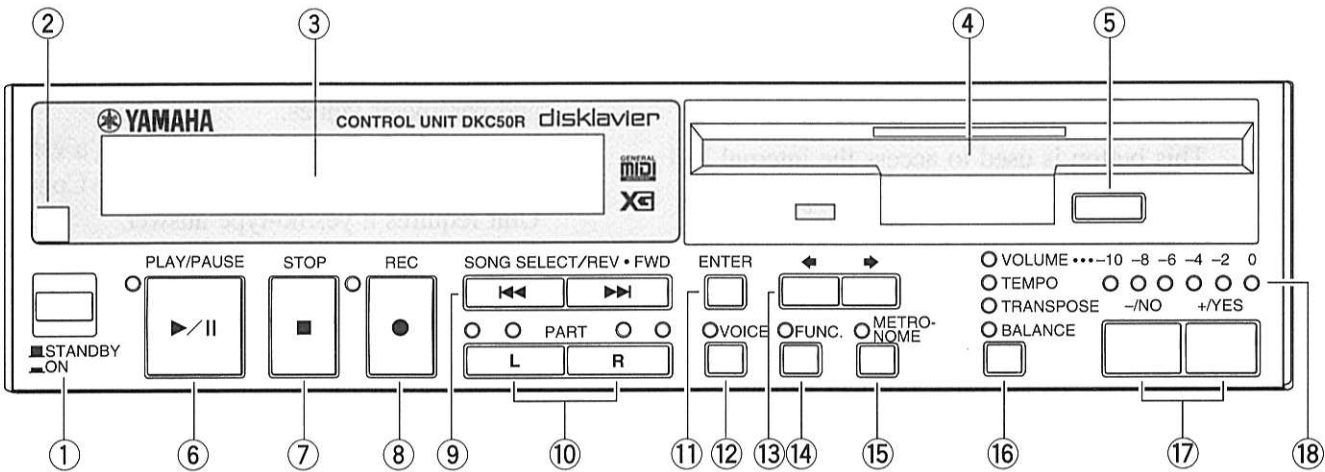


Those who enjoy making computer music can connect the Disklavier to MIDI-compatible synthesizers, sequencers, and drum machines, or to personal computers for a vast range of creative options. With its versatile abilities besides playback and recording functions, the Disklavier is an ideal tool for composition and performance.

Chapter 2
Names of Parts and Their
Functions

This chapter describes the functions of the buttons and parts of the Control Unit and remote control that are used to operate the Disklavier and to connect peripheral equipment.

Control Unit — Front Panel



- ①

[STANDBY / ON] button

This switch powers on the Disklavier or puts it in Standby mode. Press once to power on, and again to put it in Standby mode. In Standby mode, the control unit is in effect switched off. However, electrically it is in a state in which a very small quantity of power is being consumed, as the MAINS switch is still ON and the Disklavier is still connected to the AC power receptacle.
- ②

Remote control sensor

When using the remote control, point it toward this sensor.
- ③

Display

This display (LCD) shows the number of the currently selected song, song time, and title. It also displays options, parameters, and settings in conjunction with all Disklavier's functions.
- ④

Floppy disk drive

Insert floppy disks here for playback, formatting, recording, etc.
- ⑤

Floppy disk eject button

This button is used to eject disks from the floppy disk drive.
- ⑥

[PLAY/PAUSE] button

This button is used to start and pause playback and recording.
- ⑦

[STOP] button

This button is used to stop playback and recording.
- ⑧

[REC] button

This button is used to engage the Record Standby mode before recording starts.
- ⑨

[SONG SELECT/REV·FWD] buttons

These buttons work in three different modes. In Stop mode they select songs. In Play mode they work as fast preview and review. In Pause mode they work as fast forward and reverse.

⑩ **PART [L] [R] buttons**

For L/R and Ensemble songs, these buttons allow you to choose which part to play back or record: L (left-hand) part, R (right-hand) part, or both. The green indicators light during playback, and the red indicators during recording.

Pressing both buttons together switches pedal playback on or off so that you can play the pedals yourself.

⑪ **[ENTER] button**

This button is used to select and execute functions.

⑫ **[VOICE] button**

This button is used to access the internal XG tone generator when playing the piano. See Chapter 11 “Playing the Keyboard with an Ensemble Voice.”

⑬ **[◀] [▶] cursor buttons**

These buttons are used to select various options and parameters. They are also used to move the cursor in the display when titling songs and disks, and when calling up a continuing display.

⑭ **[FUNC.] button**

This button is used to access disk and song functions, MIDI setup, and TG Master tune, and reset functions.

⑮ **[METRONOME] button**

This button is used to access the metronome.

⑯ **Selector button**

This button is used to select the feature you want to adjust from among Volume, Tempo, Transpose, and Balance.

⑰ **[-/NO] [+ /YES] buttons**

These buttons are used mainly to adjust volume. They are also used to select options and parameter values. Pressing the [+ /YES] button increases a value. It is also used to answer YES when the Control Unit requires a yes/no-type answer. Pressing the [-/NO] button decreases a value. It is also used to answer NO when the Control Unit requires a yes/no-type answer. Pressing both buttons together returns the setting to its initial factory setting.

⑱ **LED volume level indicators**

These LEDs indicate the playback volume level. They also function as a visual metronome.

③ **TO CONTROL CABLE FOR PIANO**

The control cable from the piano is connected here.

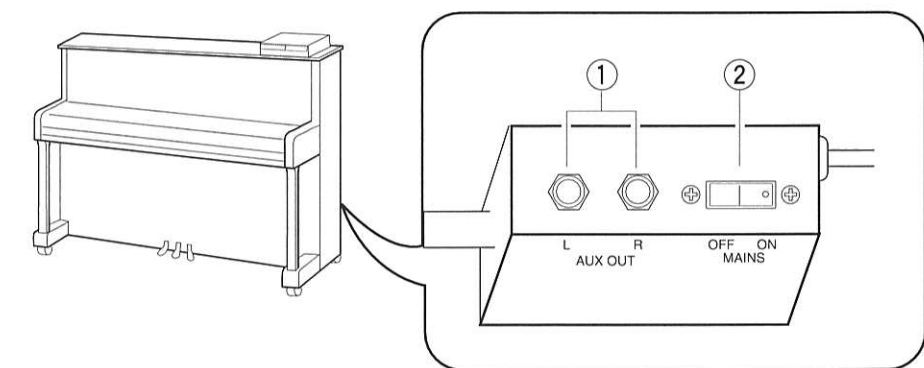
④ **MIDI OUT**

This connector is used to output MIDI data from the Control Unit. It allows output to MIDI-compatible tone generators, synthesizers, samplers, etc.

⑤ **MIDI IN**

This connector provides access to the Disklavier and internal XG tone generator. You can connect a MIDI keyboard, synthesizer, or MIDI sequencer to control the Disklavier, internal XG tone generator, or both.

Switch Box



Located on the backside of the piano

① **MAINS (ON/OFF) switch**

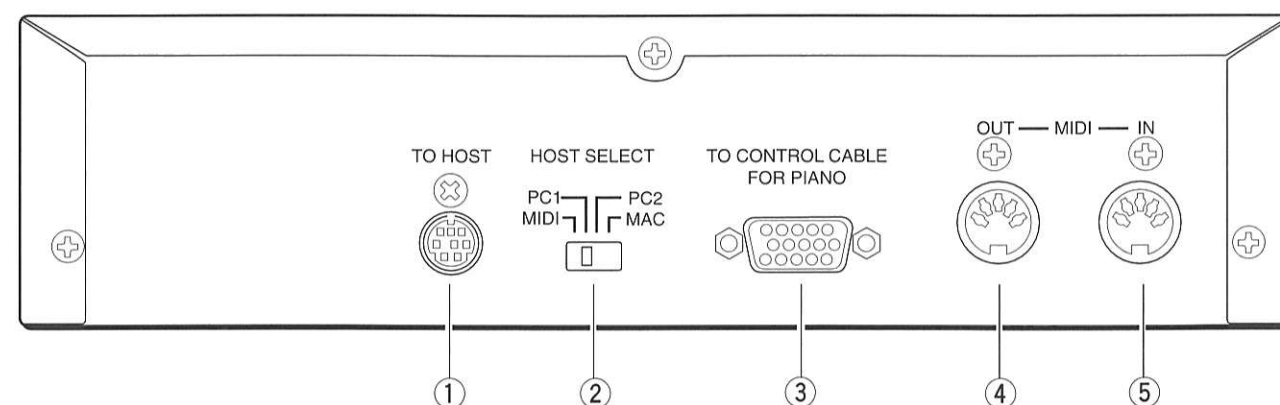
This switch is used to switch the Disklavier on and off. See pages 12 and 13 for information on power ON and OFF procedures.

② **AUX OUT**

This connector is used to output audio signal from the internal XG tone generator. For Ensemble song playback, an optional amplifier or powered speakers are connected here using the audio cable supplied (or equivalent).

Note: The MAINS switch needs to be switched off when you are not going to use the Disklavier for a long period of time. For daily use, only the [STANDBY / ON] button on the Control Unit needs to be switched on and off.

Control Unit — Rear Panel

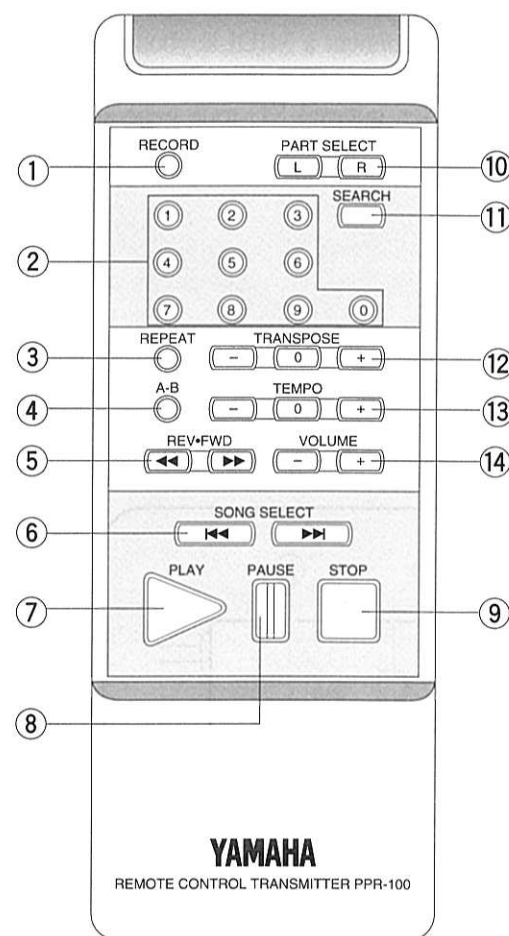


① **TO HOST (serial port)**

This connector is used to connect the Disklavier with a computer via serial cable.

② **HOST SELECT**

This switch is used to select the host computer machine to be connected to the TO HOST connector.



- ① **[RECORD] button**
Press to engage the Record Standby mode before recording starts.
- ② **Number keypad***
Used for direct song selection and to enter a start time for song playback.
- ③ **[REPEAT] button***
Used to select one of the Repeat functions: ALL, RPT, or RND.
- ④ **[A-B] button***
Used to enter A and B points for Segments A ~ B and A ~ Repeat modes.
- ⑤ **[REV·FWD] buttons**
In Play mode, these buttons work as fast preview and review.
In Pause mode, they work as fast forward and reverse.

- ⑥ **[SONG SELECT] buttons**
Used to select songs.
- ⑦ **[PLAY] button**
Used to start playback.
- ⑧ **[PAUSE] button**
Used to pause playback and recording.
- ⑨ **[STOP] button**
Used to stop playback and recording.
- ⑩ **[PART SELECT] buttons**
For L/R and Ensemble songs, these buttons are used 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***
Used to start playback from a specific time in a song. Press this button, enter the start time using the Number keypad, then press this button again.
- ⑫ **[TRANPOSE] buttons**
Used to transpose song playback.
Press the [-] button to transpose down, the [+] button to transpose up.
The [0] button is used to reset the transposition value to 00.
- ⑬ **[TEMPO] buttons**
Used to change the playback tempo.
Press the [-] button to decrease the tempo, the [+] button to increase the tempo.
The [0] button is used to reset the tempo to 00.
- ⑭ **[VOLUME] buttons**
Used to adjust the volume.
Press [-] button to decrease the volume, and the [+] button to increase the volume.

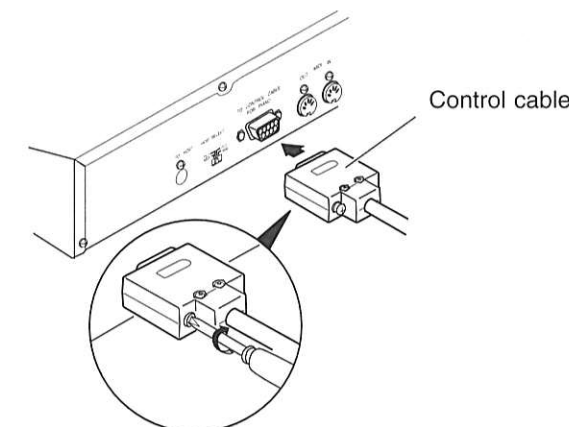
* These buttons are available only on the remote control.

Chapter 3 Setting Up Your Disklavier

Set up your Disklavier in the following order.

Connecting the Control Unit

Make sure that the control cable extending from the piano is firmly connected to the TO CONTROL CABLE FOR PIANO connector on the rear panel of the Control Unit.



Note: The control cable should have been connected to the Control Unit when the Disklavier was installed. If, however, it was not, carefully connect the control cable to the Control Unit's TO CONTROL CABLE FOR PIANO connector on the rear panel.

The Control Unit may be placed on any stable surface on, near, or away from the Disklavier as far as the length of the cable will permit.

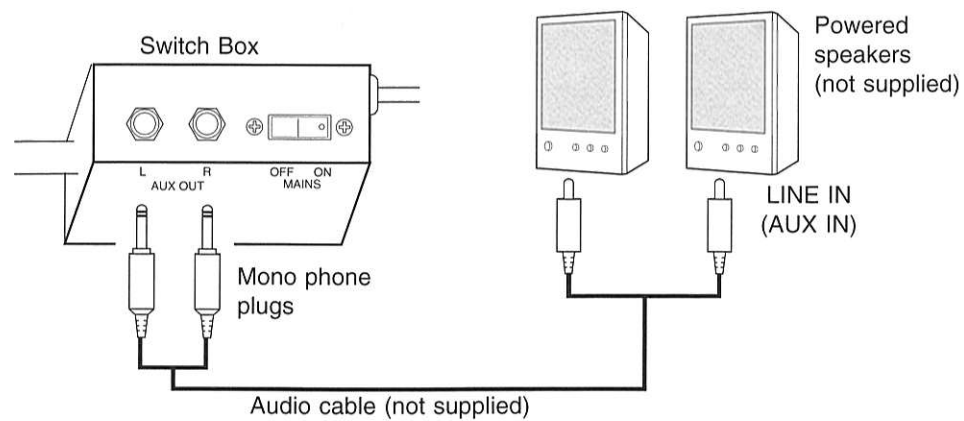
Connecting the Power Cable

Connect the Disklavier's power cable to an AC wall outlet.

Important: Make sure that the voltage of the AC wall outlet matches that marked on the Disklavier's nameplate.

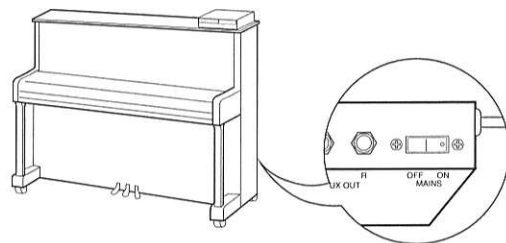
Connecting a Speaker System

To enjoy Ensemble songs, use an audio cable (ex. stereo RCA to mono phone plugs) to connect an amplifier/speaker to the AUX connectors on the side panel of the Switch Box.

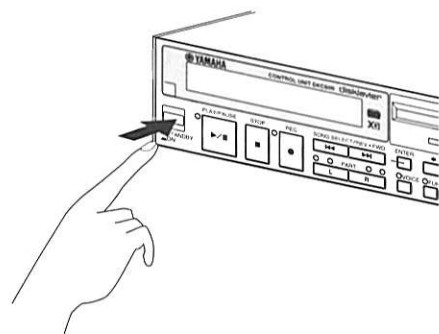


Power On Procedure

- 1 Set the MAINS switch to ON.



- 2 Press the [STANDBY / ON] button on the front panel of the Control Unit.



The following message appears on the display.

```

88 ***** YAMAHA *****
***** DISKLAVIER *****
  
```

- 3 Turn your sound system on if you will be playing back Ensemble songs.

Your Disklavier is now ready for use.

Power Off Procedure

- 1 If you were using a sound system, turn it off.
- 2 Press the [STANDBY / ON] button on the Control Unit.
- 3 Set the MAINS switch to OFF.

Operating the Disklavier's MAINS switch is effectively the same as disconnecting the power cable from an AC wall outlet. So if the Disklavier is used regularly, you only need to use the [STANDBY / ON] button on the Control Unit. If the Disklavier is not going to be used for a long period, set the MAINS switch to OFF.

Note: The [STANDBY / ON] button on the control panel must be switched off before switching off the MAINS switch so that "soft mode", if used, is released. If soft mode is not released, the keyboard will become uneven, and the piano action will be unfit for playing. See "Adjusting the Volume" on page 24.

When the Disklavier is powered off, wait at least 5 seconds before powering on again.

Connecting Other Equipment

To connect MIDI instruments to the Disklavier, see Chapter 21 "The Disklavier & MIDI".

To connect a computer to the Disklavier, see Chapter 22 "The Disklavier & Computers".