

disklavier™ *E³*

Operation manual

Manuel de l'utilisateur

Bedienungsanleitung

Manual de funcionamiento

Manuale d'uso



SPECIAL MESSAGE SECTION

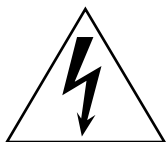
PRODUCT SAFETY MARKINGS: Yamaha electronic products may have either labels similar to the graphics shown below or molded/stamped facsimiles of these graphics on the enclosure. The explanation of these graphics appears on this page. Please observe all cautions indicated on this page and those indicated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

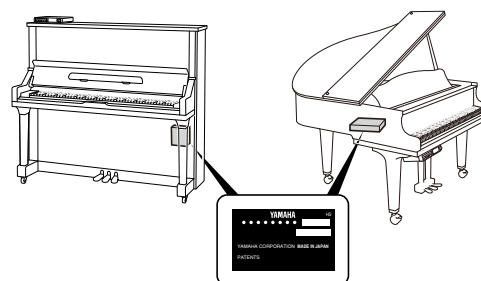
Battery Notice: This product MAY contain a small non-rechargeable battery which (if applicable) is soldered in place. The average life span of this type of battery is approximately five years. When replacement becomes necessary, contact a qualified service representative to perform the replacement.

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

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 these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. 
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This product shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.
16. Do not put burning items, such as candles, on the apparatus.
17. 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.
18. **WARNING** — To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
19. Care should be taken that objects do not fall and liquids are not spilled into the enclosure through any openings that may exist.
20. 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.
21. 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.
22. This product shall be connected to a MAINS socket outlet with a protective earthing connection.
23. This product has a power switch for shutting off all system. The switch is located on the Power Supply Unit nearby the entrance of the AC cord. Note that the switch on the Controller does not shutdown all system.
24. Make sure that the plug of the Power Supply Unit's power cable can easily be disconnected from the AC outlet as a measure of precaution.

Battery

- Danger of explosion if battery incorrectly replaced. Replace only with the same type.

Outlets for Speakers

- Connect speakers of 1A or less of totals. Do not connect other products except speakers.
- Consult Yamaha service technician when using the outlets outside the purchased area.

IMPORTANT NOTICE FOR THE UNITED KINGDOM

Connecting the Plug and Cord

IMPORTANT: The wires in 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.

CAUTION—Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION—L'utilisation de commandes ou de réglages, ou l'exécution de procédures, autres que celles qui sont spécifiées ici peuvent conduire à une exposition à des rayonnements dangereux.

VORSICHT—Die Verwendung von Bedienungselementen oder Einstellungen, oder die Anwendung von Verfahren, die nicht in dieser Anleitung angegeben sind, kann zu gefährlicher Freisetzung von Strahlung führen.

PRECAUCIÓN—El empleo de controles o ajustes o la realización de procedimientos distintos a los especificados en este manual podrá resultar en una peligrosa exposición a la radiación.

ATTENZIONE—L'uso di comandi o di regolazioni o l'esecuzione di procedimenti diversi da quelli specificati in questo manuale possono causare l'esposizione pericolosa alle radiazioni.

Laite on liitettävä suojamaadoituskoskettimilla varustettuun pistorasiaan.

Apparatet må tilkoples jordet stikkontakt.

Apparaten skall anslutas till jordat uttag.

The control unit is classified as a Class 1 laser product. One of the labels below is located on the inside of the CD drive unit.

L'unité de commande est classée produit laser de Classe 1. Une des étiquettes ci-dessous ou une étiquette similaire se trouve à l'intérieur du lecteur de CD.

Die Steuereinheit ist als ein Lasergerät der Klasse 1 eingestuft. Eins der nachstehend abgebildeten Etiketts bzw. ein Etikett ähnlichen Inhalts befindet sich im Inneren des CD-Laufwerks.

La unidad de control está clasificada como producto láser de Clase 1. Una de las etiquetas siguientes o similar está situada en el interior de la unidad de disco CD.

L'unità di controllo è classificata come prodotto laser di Classe 1. Una delle etichette seguenti o simile è situata all'interno dell'unità CD.

CLASS 1 LASER PRODUCT
LASER KLASSE 1
LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT
APAREIL A LASER DE CLASSE 1
EN60825

CLASS 1 LASER PRODUCT
LASER KLASSE 1

Laser Diode Properties

- * Material: GaAlAs
- * Wavelength: 790 nm
- * Laser Output Power at the lens of the Laser Pick Up Unit: max. 0.2 mW

Propriétés de la diode à semi-conducteur

- * Matériau : GaAlAs
- * Longueur d'ondes : 790 nm
- * Puissance de sortie laser à la lentille du capteur laser : 0.2 mW max.

Eigenschaften der Laserdiode

- * Werkstoff: GaAlAs
- * Wellenlänge: 790 nm
- * Laserausgangsleistung an Abtasterlinse: 0.2 mW max.

Propiedades del diodo láser

- * Material: GaAlAs
- * Longitud de onda: 790 nm
- * Potencia de salida láser en el objetivo de la unidad Laser Pick Up: máx. 0.2 mW

Proprietà del diodo laser

- * Materiale: GaAlAs
- * Lunghezza d'onda: 790 nm
- * Potenza di uscita del laser alla lente della testina del laser: max. 0.2 mW

Information for Users on Collection and Disposal of Old Equipment and used Batteries



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste.

For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC.

By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.



[For business users in the European Union]

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

[Information on Disposal in other Countries outside the European Union]

These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.



Note for the battery symbol (bottom two symbol examples):

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

Cd

Information concernant la Collecte et le Traitement des piles usagées et des déchets d'équipements électriques et électroniques



Les symboles sur les produits, l'emballage et/ou les documents joints signifient que les produits électriques ou électroniques usagés ainsi que les piles ne doivent pas être mélangés avec les déchets domestiques habituels. Pour un traitement, une récupération et un recyclage appropriés des déchets d'équipements électriques et électroniques et des piles usagées, veuillez les déposer aux points de collecte prévus à cet effet, conformément à la réglementation nationale et aux Directives 2002/96/EC et 2006/66/EC.

En vous débarrassant correctement des déchets d'équipements électriques et électroniques et des piles usagées, vous contribuerez à la sauvegarde de précieuses ressources et à la prévention de potentiels effets négatifs sur la santé humaine qui pourraient advenir lors d'un traitement inapproprié des déchets.

Pour plus d'informations à propos de la collecte et du recyclage des déchets d'équipements électriques et électroniques et des piles usagées, veuillez contacter votre municipalité, votre service de traitement des déchets ou le point de vente où vous avez acheté les produits.



[Pour les professionnels dans l'Union Européenne]

Si vous souhaitez vous débarrasser des déchets d'équipements électriques et électroniques veuillez contacter votre vendeur ou fournisseur pour plus d'informations.

[Information sur le traitement dans d'autres pays en dehors de l'Union Européenne]

Ces symboles sont seulement valables dans l'Union Européenne. Si vous souhaitez vous débarrasser de déchets d'équipements électriques et électroniques ou de piles usagées, veuillez contacter les autorités locales ou votre fournisseur et demander la méthode de traitement appropriée.



Note pour le symbole « pile » (deux exemples de symbole ci-dessous) :

Ce symbole peut être utilisé en combinaison avec un symbole chimique. Dans ce cas il respecte les exigences établies par la Directive pour le produit chimique en question.

Cd

Verbraucherinformation zur Sammlung und Entsorgung alter Elektrogeräte und benutzter Batterien



Befinden sich diese Symbole auf den Produkten, der Verpackung und/oder beiliegenden Unterlagen, so sollten benutzte elektrische Geräte und Batterien nicht mit dem normalen Haushaltsabfall entsorgt werden.

In Übereinstimmung mit Ihren nationalen Bestimmungen und den Richtlinien 2002/96/EC und 2006/66/EC, bringen Sie alte Geräte und benutzte Batterien bitte zur fachgerechten Entsorgung, Wiederaufbereitung und Wiederverwendung zu den entsprechenden Sammelstellen.

Durch die fachgerechte Entsorgung der Elektrogeräte und Batterien helfen Sie, wertvolle Ressourcen zu schützen und verhindern mögliche negative Auswirkungen auf die menschliche Gesundheit und die Umwelt, die andernfalls durch unsachgerechte Müllentsorgung auftreten könnten.

Für weitere Informationen zum Sammeln und Wiederaufbereiten alter Elektrogeräte und Batterien, kontaktieren Sie bitte Ihre örtliche Stadt- oder Gemeindeverwaltung, Ihren Abfallentsorgungsdienst oder die Verkaufsstelle der Artikel.



[Information für geschäftliche Anwender in der Europäischen Union]

Wenn Sie Elektrogeräte ausrangieren möchten, kontaktieren Sie bitte Ihren Händler oder Zulieferer für weitere Informationen.



[Entsorgungsinformation für Länder außerhalb der Europäischen Union]

Diese Symbole gelten nur innerhalb der Europäischen Union. Wenn Sie solche Artikel ausrangieren möchten, kontaktieren Sie bitte Ihre örtlichen Behörden oder Ihren Händler und fragen Sie nach der sachgerechten Entsorgungsmethode.

Cd

Anmerkung zum Batteriesymbol (untere zwei Symbolbeispiele):

Dieses Symbol kann auch in Kombination mit einem chemischen Symbol verwendet werden. In diesem Fall entspricht dies den Anforderungen der Richtlinie zur Verwendung chemischer Stoffe.

Información para Usuarios sobre Recolección y Disposición de Equipamiento Viejo y Baterías usadas



Estos símbolos en los productos, embalaje, y/o documentación que se acompañe significan que los productos electrónicos y eléctricos usados y las baterías usadas no deben ser mezclados con desechos hogareños corrientes.

Para el tratamiento, recuperación y reciclado apropiado de los productos viejos y las baterías usadas, por favor llévelos a puntos de recolección aplicables, de acuerdo a su legislación nacional y las directivas 2002/96/EC y 2006/66/EC.

Al disponer de estos productos y baterías correctamente, ayudará a ahorrar recursos valiosos y a prevenir cualquier potencial efecto negativo sobre la salud humana y el medio ambiente, el cual podría surgir de un inapropiado manejo de los desechos.

Para mayor información sobre recolección y reciclado de productos viejos y baterías, por favor contacte a su municipio local, su servicio de gestión de residuos o el punto de venta en el cual usted adquirió los artículos.



[Para usuarios de negocios en la Unión Europea]

Si usted desea deshacerse de equipamiento eléctrico y electrónico, por favor contacte a su vendedor o proveedor para mayor información.



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[Información sobre la Disposición en otros países fuera de la Unión Europea]

Estos símbolos sólo son válidos en la Unión Europea. Si desea deshacerse de estos artículos, por favor contacte a sus autoridades locales y pregunte por el método correcto de disposición.

Nota sobre el símbolo de la batería (ejemplos de dos símbolos de la parte inferior)

Este símbolo podría ser utilizado en combinación con un símbolo químico. En este caso el mismo obedece a un requerimiento dispuesto por la Directiva para el elemento químico involucrado.

Informazioni per gli utenti sulla raccolta e lo smaltimento di vecchia attrezzatura e batterie usate



Questi simboli sui prodotti, sull'imballaggio, e/o sui documenti che li accompagnano significano che i prodotti e le batterie elettriche e elettroniche non dovrebbero essere mischiati con i rifiuti domestici generici.

Per il trattamento, recupero e riciclaggio appropriati di vecchi prodotti e batterie usate, li porti, prego, ai punti di raccolta appropriati, in accordo con la Sua legislazione nazionale e le direttive 2002/96/CE e 2006/66/CE.

Smaltendo correttamente questi prodotti e batterie, Lei aiuterà a salvare risorse preziose e a prevenire alcuni potenziali effetti negativi sulla salute umana e l'ambiente, che altrimenti potrebbero sorgere dal trattamento improprio dei rifiuti.

Per ulteriori informazioni sulla raccolta e il riciclaggio di vecchi prodotti e batterie, prego contatti la Sua amministrazione comunale locale, il Suo servizio di smaltimento dei rifiuti o il punto vendita dove Lei ha acquistato gli articoli.



[Per utenti imprenditori dell'Unione europea]

Se Lei desidera disfarsi di attrezzatura elettrica ed elettronica, prego contatti il Suo rivenditore o fornitore per ulteriori informazioni.

[Informazioni sullo smaltimento negli altri Paesi al di fuori dell'Unione europea]

Questi simboli sono validi solamente nell'Unione europea. Se Lei desidera disfarsi di questi articoli, prego contatti le Sue autorità locali o il rivenditore e richieda la corretta modalità di smaltimento.



Cd

Noti per il simbolo della batteria (sul fondo due esempi di simbolo):

È probabile che questo simbolo sia usato in combinazione con un simbolo chimico. In questo caso è conforme al requisito stabilito dalla direttiva per gli elementi chimici contenuti.

Mounting the Control Unit to the Grand Piano

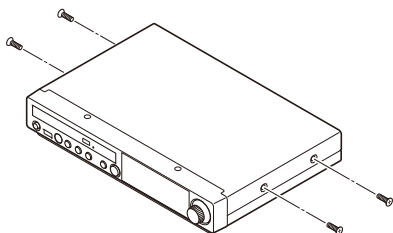
Installation du boîtier de commande sur un piano à queue

Montage der Steuereinheit des Flügel

Montaje de la Unidad de control en el Gran Piano

Installazione dell'unità di controllo al Pianoforte a coda

(1)



Remove the four screws from the sides of the control unit.

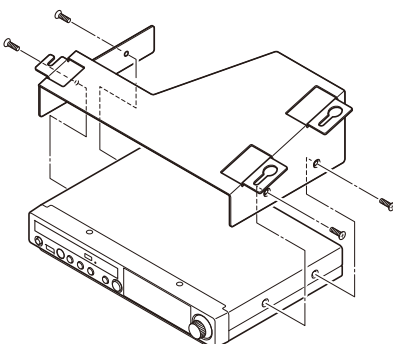
Retirer les quatre vis sur les côtés du boîtier de commande.

Entfernen Sie die vier Schrauben an den Seiten der Steuereinheit.

Quite los cuatro tornillos laterales de la unidad de control.

Togliere le quattro viti sui lati dell'unità di controllo.

(2)



Place the metal suspension bracket, supplied with the Disklavier grand model, over the control unit, then secure the metal suspension bracket to the control unit using the four screws (4 × 10) supplied with the Disklavier.

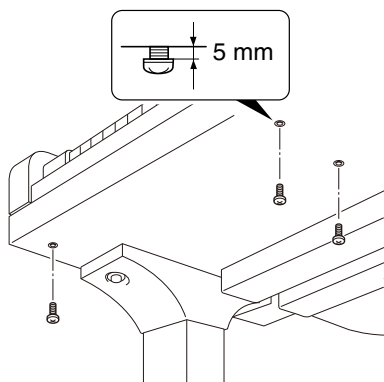
Placez la platine de fixation de suspension en métal, fournie avec le modèle Grand Disklavier, au-dessus du boîtier de commande, puis fixez la platine de fixation de suspension en métal au boîtier de commande en utilisant les quatre vis (4 × 10) fournies avec le Disklavier.

Platzieren Sie die mit dem Disklavier-Spitzenflügel mitgelieferte Metalltraverse über der Steuereinheit und fixieren Sie die Metalltraverse mit den vier mit dem Disklavier mitgelieferten Schrauben (4 × 10) an der Steuereinheit.

Coloque el soporte metálico de suspensión suministrado con el modelo de gran piano Disklavier en la unidad de control, luego fije el soporte metálico de suspensión utilizando los cuatro tornillos (4 × 10) suministrados con el Disklavier.

Posizionare il supporto di sospensione in metallo, fornito in dotazione con il modello per pianoforte a coda, sull'unità di controllo, quindi fissare il supporto di sospensione in metallo all'unità di controllo utilizzando le quattro viti (4 × 10) fornite in dotazione con il Disklavier.

(3)



Insert the three restraining screws (5 × 12) into the marked nuts underneath the bass side key bed, then tighten the screws, leaving a gap of about 5 mm between head of the screw and piano body.

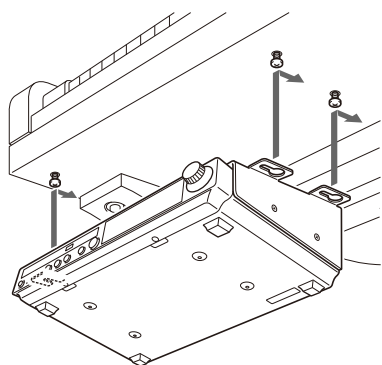
Introduire les trois vis de fixation (5 × 12) dans les écrous marqués sous le clavier du côté de la basse, puis serrer les vis en laissant un espace d'environ 5 mm entre la tête de la vis et le corps du piano.

Setzen Sie die drei Halteschrauben (5 × 12) in die markierten Muttern unterhalb des Bassseiten-Stuhlrahmens ein und ziehen Sie dann die Schrauben fest, indem Sie zwischen dem Schraubenkopf und dem Klavierkörper einen Zwischenraum von ca. 5 mm lassen.

Coloque los tres tornillos de retención (5 × 12) en las tuercas marcadas debajo del asiento del teclado del lado de bajo, luego apriete los tornillos dejando un espacio de unos 5 mm entre la cabeza del tornillo y el cuerpo del piano.

Inserire le tre viti di fissaggio (5 × 12) nei dadi segnati al di sotto della tastiera sul lato dei bassi, quindi serrare le viti, lasciando uno spazio di circa 5 mm tra la testa della vite e il corpo del pianoforte.

(4)



Fit the “slots” of the metal suspension bracket containing the control unit to the screws mentioned in step (3).

After mounting the control unit, push the control unit back as far as it will go and then tighten the three screws to secure the bracket.

Glisser les « fentes » du support métallique contenant le boîtier de commande sur les vis mentionnées à l'étape (3).

Après avoir installé le boîtier de commande, l'enfoncer jusqu'à l'extrémité et serrer les trois vis pour fixer le support.

Passen Sie die „Schlitze“ der die Steuereinheit enthaltenden Metalltraverse an die unter (3) erwähnten Schrauben an.

Drücken Sie nach Montage der Steuereinheit die Steuereinheit so weit zurück wie möglich und ziehen Sie dann die drei Schrauben fest, um die Traverse zu fixieren.

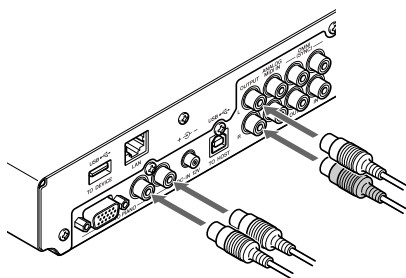
Fije las “ranuras” del soporte metálico de suspensión que contiene la unidad de control a los tornillos mencionados en el paso (3).

Después de montar la unidad de control, empújela hacia atrás hasta el tope y luego fíjela con los tres tornillos para bloquear el soporte.

Adattare le “scanalature” del supporto metallico contenente l'unità di controllo alle viti menzionate nel punto (3).

Dopo aver installato l'unità di controllo, spingerla fino in fondo, quindi serrare le tre viti per fissare il supporto.

(5)



Connect the cables extending from the piano to the appropriate connectors/jacks on the rear panel of the control unit.

- Coaxial cable: to the TO PIANO connectors
- Speaker cord*: to the OUTPUT jacks

** Only for models supplied with the monitor speakers.*

Connectez les câbles sortant du piano aux connecteurs ou aux prises appropriées sur le panneau arrière de l'unité de commande.

- Câble coaxial : aux connecteurs TO PIANO
- Cordon de haut-parleur*: aux prises OUTPUT

** Uniquement pour les modèles fournis avec les haut-parleurs de contrôle.*

Schliessen Sie die vom Klavier ausgehenden Kabel an den geeigneten Anschlüssen/Buchsen an der Rückseite der Steuereinheit an.

- Koaxialkabel: an den TO-PIANO-Anschlüssen
- Lautsprecherkabel*: an den OUTPUT-Buchsen

** Nur bei mit Monitorlautsprechern gelieferten Modellen.*

Conecte los cables que salen del piano a los conectores/tomas apropiados del panel trasero de la unidad de control.

- Cable coaxial: al los conectores TO PIANO
- Cable de los altavoces*: a las tomas OUTPUT

** Solamente para los modelos suministrados con los altavoces monitores.*

Collegare i cavi dal pianoforte agli appositi connettori/jack sul pannello posteriore dell'unità di controllo.

- Cavo coassiale: ai connettori TO PIANO
- Cavo altoparlante*: alle prese OUTPUT

** Solo per i modelli dotati di altoparlanti monitor.*

Notes:

- 1) Handle the metal suspension bracket and the control unit carefully to avoid scratches.
- 2) Screws;
For suspension bracket installation: Flat head $(4 \times 10) \times 4$
For control unit suspension: Bind head $(5 \times 12) \times 3$
- 3) When mounted correctly, the control unit is angled approximately 18° above horizontal.

Remarques :

- 1) Manipuler soigneusement le support métallique et le boîtier de commande pour éviter les rayures.
- 2) Vis de fixation ;
Pour l'installation de la platine de fixation de suspension : Tête plate $(4 \times 10) \times 4$
Pour la suspension du unité de commande : Tête de grippage $(5 \times 12) \times 3$
- 3) Lorsqu'il est monté correctement, le boîtier de commande est incliné d'environ 18° sur l'horizontale.

Hinweise:

- 1) Handhaben Sie die Metalltraverse und die Steuereinheit mit Vorsicht, um Kratzer zu vermeiden.
- 2) Schrauben;
Zur Installation der Metalltraverse: Flachkopfschraube $(4 \times 10) \times 4$
Für die Traverse der Steuereinheit: Halbrundschrabe $(5 \times 12) \times 3$
- 3) Bei ordnungsgemäßer Montage befindet sich die Steuereinheit in einem Winkel von 18° über der Horizontalen.

Notas:

- 1) Manipule con cuidado el soporte metálico de suspensión y la unidad de control para evitar ralladuras.
- 2) Tornillos;
Para la instalación del soporte de suspensión: Cabeza plana $(4 \times 10) \times 4$
Para la suspensión de la unidad de control: Cabeza fijadora $(5 \times 12) \times 3$
- 3) Cuando está montada correctamente, la unidad de control queda angulada aproximadamente unos 18° respecto a la posición horizontal.

Note:

- 1) Maneggiare con cautela il supporto metallico e l'unità di controllo per evitare graffi.
- 2) Viti;
Per l'installazione del supporto di sospensione: A testa piatta $(4 \times 10) \times 4$
Per la sospensione dell'unità di controllo: A testa cieca $(5 \times 12) \times 3$
- 3) Se montata correttamente, l'unità di controllo è inclinata con un angolo di circa 18° rispetto al piano orizzontale.

Mounting an Optional USB Floppy Disk Drive to the Grand Piano

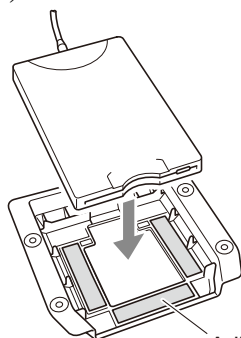
Installation d'unité de disquette USB optionnelle sur le piano à queue

Montage eines optionalen USB-Diskettenlaufwerks am Flügel

Montaje de una unidad de disco floppy USB opcional en el gran piano

Installazione di unità Floppy Disk USB opzionale sul pianoforte a coda

(1)



Adhesive tape
Ruban adhésif
Klebeband
Cinta adhesiva
Nastro adesivo

Remove the backing papers from the adhesive tape inside the case, and fit the floppy disk drive into the case.

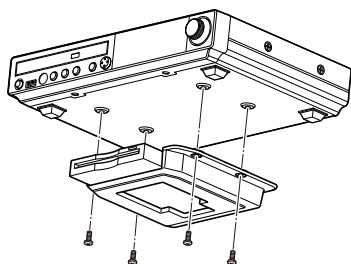
Enlevez les papiers arrière du ruban adhésif à l'intérieur du boîtier et insérez l'unité de disquette dans le boîtier.

Entfernen Sie die Papierstreifen vom Klebeband im Gehäuse und setzen Sie das Diskettenlaufwerk in das Gehäuse ein.

Quite el papel trasero de la cinta adhesiva dentro de la caja y coloque la unidad de disco floppy en la caja.

Togliere il foglio protettivo dal nastro adesivo all'interno della scatola e inserire l'unità floppy disk nella scatola.

(2)



Attach the drive and case assembly to the bottom of the control unit, using the four screws (3 × 6) supplied with the Disklavier.

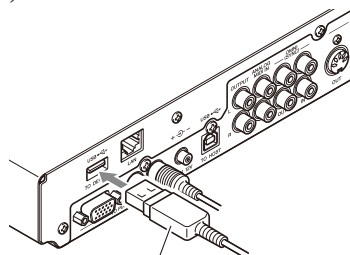
Fixez l'ensemble de lecteur et de boîtier au fond de l'unité de commande en utilisant les quatre vis (3 × 6) fournies avec le Disklavier.

Bringen Sie das Laufwerk und die Gehäusebaugruppe mittels der vier mit dem Disklavier mitgelieferten Schrauben (3 × 6) an der Unterseite der Steuereinheit an.

Fije el conjunto de la unidad y la caja en la parte inferior de la unidad de control por medio de los cuatro tornillos (3 × 6) suministrados con el Disklavier.

Fissare il gruppo lettore e scatola al fondo dell'unità di controllo utilizzando le quattro viti (3 × 6) in dotazione con il Disklavier.

(3)



USB cable
Câble USB
USB-Kabel
Cable USB
Cavo USB

Connect the USB cable extending from the drive to the USB port on the rear panel of the control unit.

Raccordez le câble USB sortant du lecteur au port USB sur le panneau arrière de l'unité de commande.

Schliessen Sie das vom Laufwerk ausgehende USB-Kabel am USB-Port an der Rückseite der Steuereinheit an.

Conecte el cable USB que sale de la unidad al puerto USB del panel trasero de la unidad de control.

Collegare il cavo USB dal lettore alla porta USB sul pannello posteriore dell'unità di controllo.

Notes:

- 1) The case is supplied with the USB floppy disk drive.
- 2) Use the screws (3 × 6) supplied with the Disklavier when attaching.

Remarques :

- 1) Le boîtier est fourni avec l'unité de disquette USB.
- 2) Utilisez les vis de fixation (3 × 6) fournies avec le Disklavier au moment de faire la fixation.

Hinweise:

- 1) Das Gehäuse wird mit dem USB-Diskettenlaufwerk mitgeliefert.
- 2) Verwenden Sie zum Anbringen die mit dem Disklavier mitgelieferten Schrauben (3 × 6).

Notas:

- 1) La caja se suministra con la unidad de disco floppy USB.
- 2) Utilice los tornillos (3 × 6) suministrados con el Disklavier para su fijación.

Note:

- 1) La scatola è fornita con l'unità floppy disk USB.
- 2) Per il fissaggio, utilizzare le viti (3 × 6) fornite in dotazione con il Disklavier.



Operation manual

Welcome to the Yamaha Disklavier™!

Thank you for purchasing the Yamaha 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.

Before using your Disklavier piano, please read this manual thoroughly and retain it for future reference.

■ Notes on Source Code Distribution

For three years after the factory shipment, you may request from Yamaha the source code for any portions of the product which are licensed under the GNU General Public License by writing to the following address:

1480 Ryoke, Kakegawa, Shizuoka, 436-0038, JAPAN
Piano Division, Yamaha Corporation

The source code will be provided at no charge; however, we may require you to reimburse Yamaha for the cost of delivering the source code to you.

The source code download is also available on the following website:

http://www.global.yamaha.com/download/disklavier_e3/

- Note that we shall bear no responsibility whatsoever for any damage arising from changes (additions/deletions) made to the software for this product by a third party other than Yamaha (or party authorized by Yamaha).
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- SmartKey, CueTIME, and You Are The Artist are trademarks of Yamaha Corporation or Yamaha Corporation of America.
- Disklavier E3 software, Copyright © 2008 Yamaha Corporation.
- This contains programs licensed under the GNU General Public License, GNU Lesser General Public License, the BSD Copyright, the Artistic License, and the others.
- This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (<http://www.openssl.org/>)
- Windows is a registered trademark of Microsoft Corporation in the United States and other countries.
- Macintosh and Mac OS are trademarks of Apple Inc., registered in the U.S. and other countries.
- The company names and product names in this operation manual are the trademarks or registered trademarks of their respective companies.

Important Precautions

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, ignite 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.
- The batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

Please keep this manual for future reference.

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MIDI IMPLEMENTATION CHART

Features

The Disklavier E3 offers the valuable features that open up your musical possibility to explore. Here are brief explanations of such features:

Advanced Features for Your Listening Pleasure

- Special music CDs, contain over 17 hours of fantastic music, let you start listening on the day the Disklavier E3 arrives at your home.
- DisklavierRadio; you can listen to over 11 music channel by streaming broadcasts over the Internet.
- Yamaha's innovative Silent Piano™ function lets you listen to songs or play the piano more quietly than on the acoustic piano, or privately at any time*.

Convenient Recording Features to Preserve Your Musical Memories

- Total 128 megabytes of internal memory comes with the Disklavier E3 to preserve your valuable data.
- Connecting external USB devices to the Disklavier E3 allows you to record your performance directly onto them, or even make backups of your valuable data in the internal memory.
- Video synchronization features offer great listening experience with sights. You can see as well as hear performances with perfectly synchronized audio and video.
- Your valuable music data on the floppy disk can be played back with the optional floppy disk drive (UD-FD01).

Simple and Easy-to-use Features Enhancing Your Performance

- The remote control, with clear and logical layout of buttons, lets you quickly enjoy the features of the Disklavier E3.
- The display on the front panel employs an organic electro-luminescent display which makes it brighter and more easily readable than ever.

* Only for models equipped with the Silent Piano™ function.

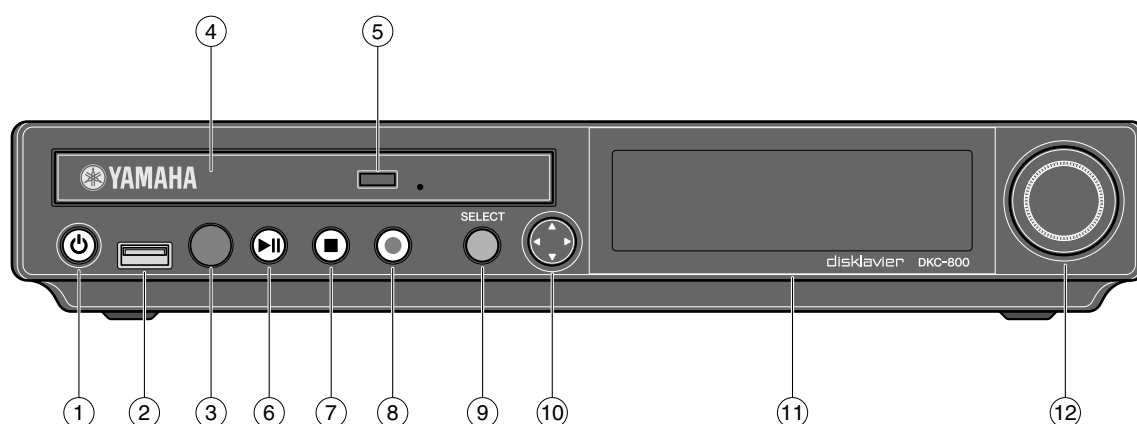
Items Supplied with the Disklavier

Check that the following items are supplied with your Disklavier:

- | | |
|--|---|
| • 1 Control unit | • 1 Stereo headphones* ³ |
| • 1 Control unit suspension bracket* ¹ | • 2 Sample PianoSoft CD software |
| • 4 Screws for control unit suspension bracket installation (4 × 10)* ¹ | • 1 Operation manual |
| • 3 Screws for control unit suspension (5 × 12)* ¹ | • 1 PianoSoft CD song list |
| • 4 Screws for optional USB floppy disk drive installation (3 × 6)* ¹ | • 1 Music book "50 greats for the Piano" |
| • 2 Monitor speakers* ² | * ¹ Only for grand pianos |
| • 1 Monitor speaker installation kit* ² | * ² Only for models supplied with the monitor speakers |
| • 2 Speaker cords* ² | * ³ Only for models equipped with the Silent Piano™ function |
| • 1 Remote control | |
| • 2 Batteries for remote control | |

Names of Parts and Their Functions

■ Control Unit — Front Panel



① **[ON/OFF] button**

Turns on or shuts down the Disklavier. Press once to turn it on, and once again to shut it down.

② **USB port**

Used to connect a USB flash memory, etc.

③ **Remote control sensor**

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

④ **CD drive**

Insert a PianoSoft·PlusAudio or other audio or audio/MIDI CD here.

⑤ **CD eject button**

Used to open the CD drive.

⑥ **[PLAY/PAUSE] button**
(pages 20 and 22)

Used to start and pause playback.

⑦ **[STOP] button** (page 22)

Used to stop playback and recording.

⑧ **[RECORD] button** (page 53)

Used to engage the record standby mode before recording starts.

⑨ **[SELECT] button**

Used to select media.

⑩ **Cursor/[ENTER] buttons**

Cursor: Used to select options and parameters.



Press this button inclining slightly upward/downward/left/right.

[ENTER]: Used to execute the selection.



Press straight the center of this button.

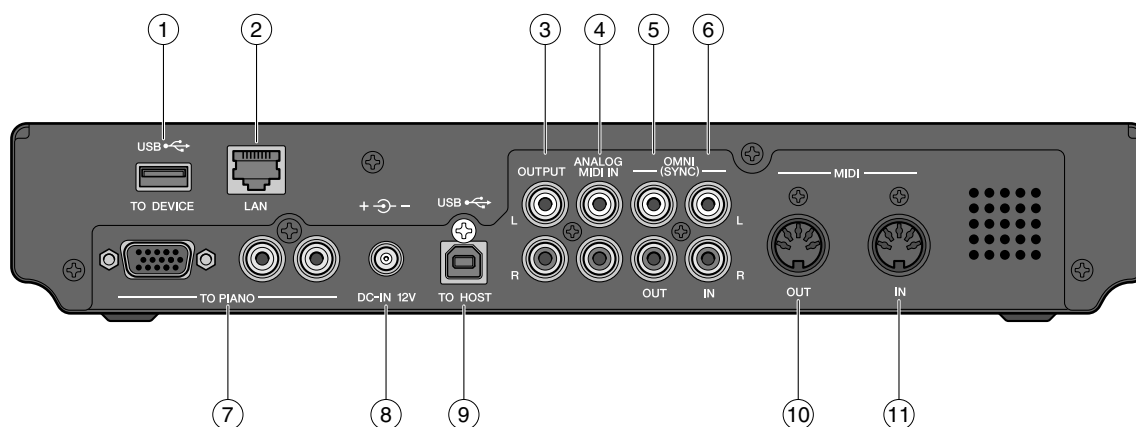
⑪ **Display**

Shows various information.

⑫ **Dial**

Used to adjust the volume, and to set parameter values.

■ Control Unit — Rear Panel



① **USB TO DEVICE port**

Used to connect a USB flash memory, an optional USB floppy disk drive, etc.

② **LAN port**

Used to connect to the Internet.

③ **OUTPUT jacks**

Used to connect the speaker cord from the monitor speakers.*

④ **ANALOG MIDI IN jacks**

Used to connect the audio equipment such as an external CD changer.

⑤ **OMNI (SYNC) OUT jacks**

Used to connect the microphone/line input of a camcorder.

⑥ **OMNI (SYNC) IN jacks**

Used to connect the audio output of a camcorder.

⑦ **TO PIANO connectors**

Used to connect the piano.

⑧ **DC-IN 12V connector**

Used to connect to the power supply unit.

⑨ **USB TO HOST port**

Used to connect the USB cable from a computer.

⑩ **MIDI OUT terminal**

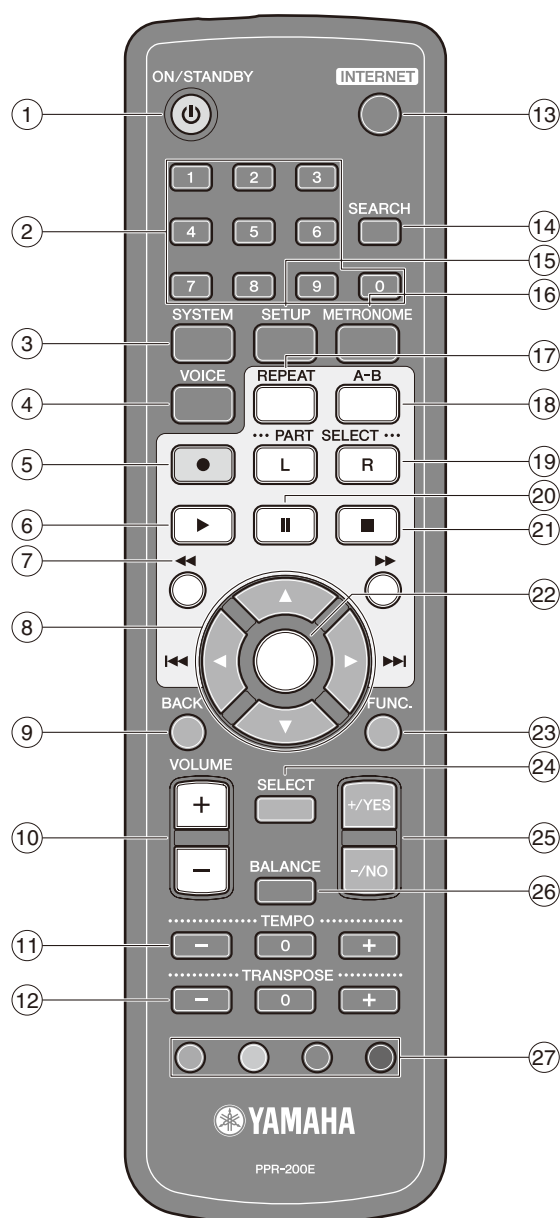
Used to connect external MIDI equipment for outputting MIDI data.

⑪ **MIDI IN terminal**

Used to connect external MIDI equipment for inputting MIDI data.

* Only for models supplied with the monitor speakers.

■ Remote Control



① **[ON/STANDBY] button**

Turns on the Disklavier or puts it in the standby mode.

② **Number keypad**

Used for direct album/song selection and to enter a start time for song playback.

③ **[SYSTEM] button**

Used to access the system menu.

④ **[VOICE] button**

Used to access the voice function.

⑤ **[RECORD] button**

Used to engage the record standby mode before recording starts.

⑥ **[PLAY] button**

Used to start playback.

⑦ **[REVERSE]/[FORWARD] buttons**

In the play mode: used to fast preview and review.
In the pause mode: used to fast forward and reverse.

⑧ **Cursor buttons**

Used to select options and parameters.

⑨ **[BACK] button**

Used to cancel the selection, and return to the previous screen.

⑩ **[VOLUME] buttons (🔊 page 27)**

Used to adjust the volume.

[-] lowers the volume, [+] raises the volume.

⑪ **[TEMPO] buttons**

Used to change the playback tempo.

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

⑫ **[TRANPOSE] buttons**

Used to transpose song playback.

[-] transposes down, [+] transposes up, and [0] resets the transposition value to 00.

⑬ **[INTERNET] button**

Used to access the Internet menu.

⑭ **[SEARCH] button**

Used to access the search function.

⑮ **[SETUP] button**

Used to access the setup menu.

⑯ **[METRONOME] button**

Used to access the metronome function.

⑰ **[REPEAT] button**

Used to select one of the repeat modes: ALL, RPT, RND, or OFF.

⑱ **[A-B] button**

Used to enter A and B points for the A-B repeat mode.

⑲ **[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.

⑳ **[PAUSE] button (⏸ page 22)**

Used to pause playback.

㉑ **[STOP] button (⏹ page 22)**

Used to stop playback and recording.

㉒ **[ENTER] button**

Used to execute the selection.

㉓ **[FUNC.] button**

Used to access the function menu.

㉔ **[SELECT] button**

Used to select media.

㉕ **[+/YES]/[-/NO] buttons**

Used to select parameters, adjust setting values, and execute or cancel the selected functions.

㉖ **[BALANCE] button**

Used to adjust the TG, audio and voice balance.

㉗ **Color buttons**

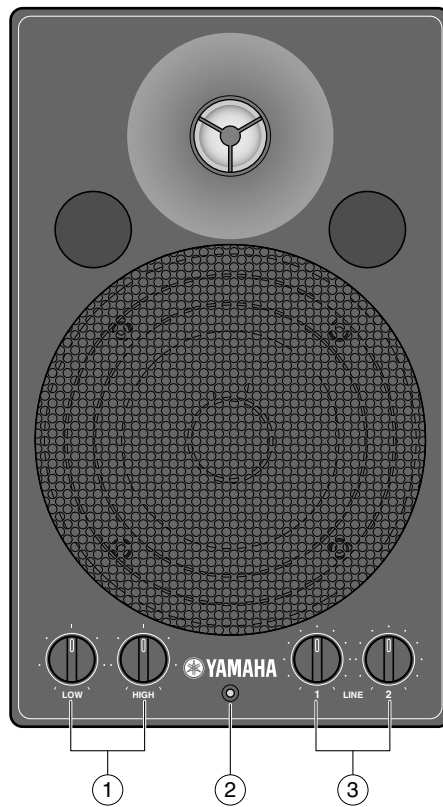
Green: Used to execute the shortcut assigned to the number keypad.

Yellow: Used to switch character types when titling albums and songs.

Red: Used to switch the Disklavier to the acoustic mode*.

Blue: Used to switch the Disklavier to the quiet mode*.

* Only for grand pianos equipped with the Silent Piano™ function.

■ Monitor Speaker***① LOW/HIGH volume controls**

Adjust the base/treble sound volume.

② Power indicator

Lights up while the speaker is turned on.

③ LINE1/2 volume controls

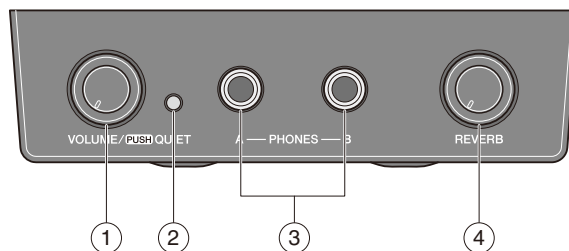
Adjust the sound volume for each line input.

Note: For normal use, turn down the LINE2 volume completely, and turn up the LINE1 volume at the three o'clock position.

* Only for models supplied with the monitor speakers.

■ Silent Piano™ Control Box*

(Grand piano)



① **[VOLUME] knob / [QUIET] switch**

Used to adjust the volume of the headphones while in the headphone mode. Pushing this switch activates the quiet mode.

② **[QUIET] indicator**

Lights up while the quiet mode is activated.

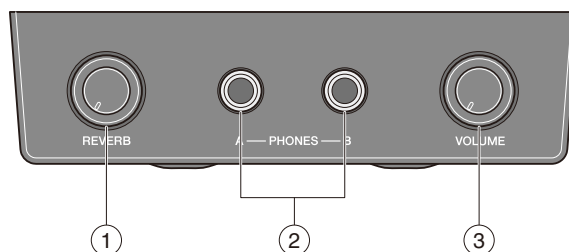
③ **PHONES jacks**

Used to connect the headphones. You can use two headphones simultaneously.

④ **[REVERB] knob**

Used to adjust the amount of reverb.

(Upright piano)



① **[REVERB] knob**

Used to adjust the amount of reverb.

② **PHONES jacks**

Used to connect the headphones. You can use two headphones simultaneously.

③ **[VOLUME] knob**

Used to adjust the volume of the headphones while in the headphone mode.

* Only for models equipped with the Silent Piano™ function

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 additional Disklavier terminology, see the glossary provided in Chapter 16.

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.

Internal Flash Memory

The Disklavier has a total of 128 megabytes of internal flash memory that allow you to store song data without a floppy disk.

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.

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 for use with the Disklavier series. Many titles are available, and among the many musical styles included are classical, jazz, and popular. The disk includes songs for listening enjoyment, 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 software contains prerecorded ensemble songs featuring instrumental accompaniment that can be played back on the Disklavier. See your Disklavier dealer for a PianoSoft catalog.

PianoSoft-PlusAudio



CD software made by Yamaha containing audio and MIDI signals for playing back on the Disklavier.

SmartPianoSoft



Software made by Yamaha containing MIDI signals for playing back along with standard audio CDs.

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.

Tone Generator

An electronic device that generates instrument voices. The Disklavier has an internal XG tone generator that can produce nearly 700 instrumental and percussion voices.

Voice

The sounds produced by a tone generator expressing various instruments.

XG

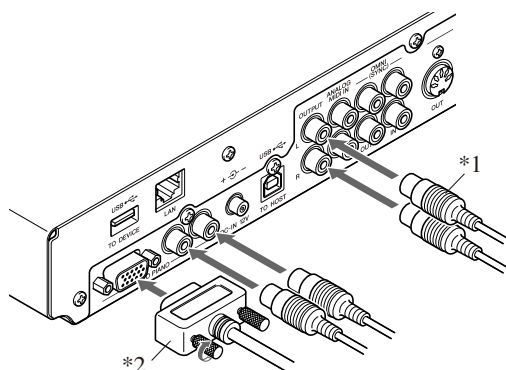


Yamaha XG is an extension of the GM (General MIDI) format. With greater polyphony, more voice, and effects, it improves song compatibility between MIDI devices. When a song in the Yamaha XG format is played on another XG compatible tone generator or synthesizer, it will play and sound as the original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

Getting Started

Connecting the Control Unit

Make sure that the cables extending from the piano is connected to the appropriate connectors or jacks on the rear panel of the control unit.


Note:

The cables should be connected to the control unit when the Disklavier is installed. If, however, it is not, carefully connect them to the appropriate connectors or jacks on the rear panel of the control unit.

Note:

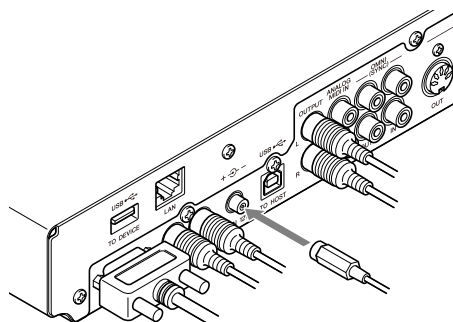
For grand piano models, be sure to mount the control unit to the underside of the bass side key bed.

^{*1} Only for models supplied with the monitor speakers.

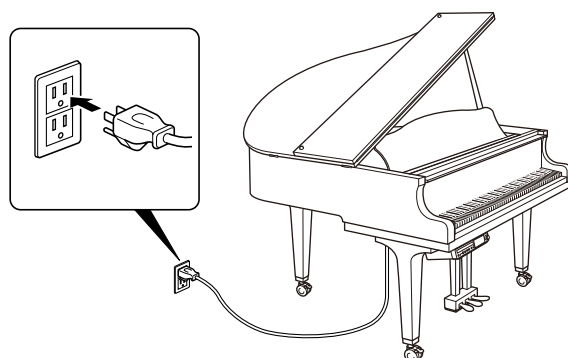
^{*2} Only for models equipped with the Silent Piano™ function.

Connecting the AC Power Cable

- 1 Connect the power cord extending from the power supply unit of the piano to the DC-IN 12V connector of the control unit.



- 2 Connect the AC power cable extending from the piano to the AC wall outlet.


Important:

Make sure that the voltage of the AC wall outlet matches that marked on the Disklavier's Serial No. plate.

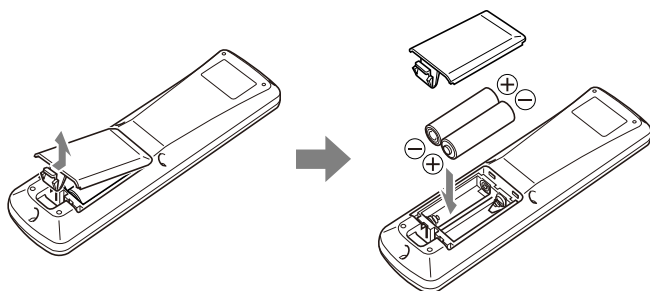
Using the Remote Control

The Disklavier is equipped with a remote control which allows convenient control from almost anywhere in the room. This chapter provides notes on handling the remote control.

■ Installing Batteries in the Remote Control

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

Remove the battery cover from the rear of the remote control, install the batteries, and then replace the cover.



A diagram inside the battery compartment shows which way the batteries should be installed. Make sure you insert them correctly.

■ Battery Replacement

When the remote control fails to work from a distance, replace the batteries.

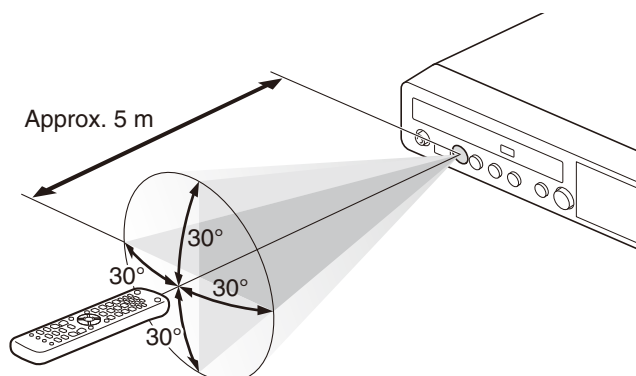
- Replacement batteries should be UM-3, AA, R6P, or LR6 type.
- Do not use new and old dry batteries together.
- Do not use different types of batteries (alkaline and manganese batteries, batteries made by different manufacturers or different battery products made by the same manufacturer) together.
- Remove spent batteries immediately from the remote control. Otherwise, batteries will overdischarge, causing them to 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.
- If the remote control is not to be used for a prolonged period of time, remove the batteries to prevent possible damage by battery leakage.
- If the batteries have leaked, dispose of them immediately. Avoid touching the leaked electrolyte or letting it come into contact with skin or clothing. Clean the battery compartment thoroughly before installing new batteries.

Important:

Be sure to read the section on “Handling Batteries” on page iii for details on the safe handling of dry batteries.

■ Using the Remote Control

To use the remote control, point it at the remote control sensor on the control unit.

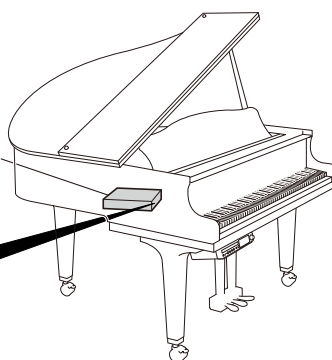
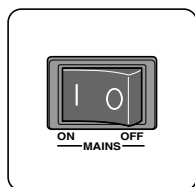


Turning On the Disklavier

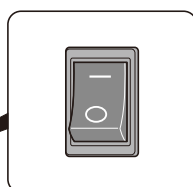
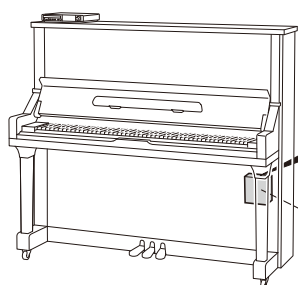
- 1** Make sure that the main switch on the power supply unit is turned on.

(Grand piano)

Power supply unit
(located on the bottom)



(Upright piano)



Power supply unit
(located on the rear)

Getting Started

2 Press [ON/OFF] on the control unit.

While the control unit is in the standby mode, you can also turn on the Disklavier by pressing [ON/STANDBY] on the remote control.

ON/STANDBY



The following message appears on the display, and [ON/OFF] on the control unit lights green.



After several seconds, the loading screen will appear, and last selected song will be loaded.



Your Disklavier is now ready for use.



See Chapter 2 “Getting Started – Turning Off the Disklavier (Standby Mode)” on page 15.

Setting the Internal Calendar

[SYSTEM] → “TimeZone” and “Clock Adj.”

The Disklavier has an internal calendar that can be set from 1/1/1985 00:00:00 to 12/31/2084 23:59:59. Set the calendar accurately so that the Disklavier displays the correct current time during the stop mode.

Time is displayed in 24-hour format.



Setting the correct time is also important for engaging timer-controlled programs. See Chapter 4 “Advanced Song Playback – Using the Timer Play” on page 36.

■ Time Zone

1 Press [SYSTEM] on the remote control.

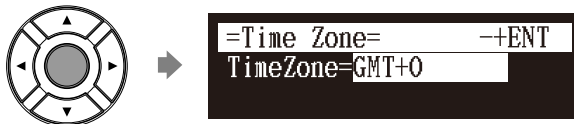
The system menu screen appears.



- 2** Select “TimeZone” with the cursor buttons ([◀] [▶] [▲] [▼]), then press [ENTER].



The time zone setup screen appears.



- 3** Press [+ / YES] and [- / NO] to change the time zone.



Examples of Time Zone

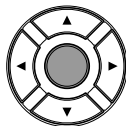
The chart below shows the correspondence between the time zone setting on the Disklavier and actual time zone used in each area.

Setting	Actual Time Zone
GMT-6	Mexico (Mexico City)
GMT-5	Panama, Peru
GMT-4	Chile
GMT-3	Argentina, Brazil (Rio de Janeiro)
GMT+0	U.K.
GMT+1	Central Europe (Paris, Berlin)
GMT+2	Eastern Europe (Athens)
GMT+3	Russia (Moscow)
GMT+4	U.A.E.
GMT+7	Indonesia (Jakarta), Thailand (Bangkok)
GMT+8	China (Beijing, Shanghai, Hong Kong), Singapore
GMT+9	South Korea (Seoul)
GMT+10	Australia (Canberra, Sydney)

Note:

The time zone listed here should be used only as a guide. For more details, contact your local observatories.

- 4** Press [ENTER].

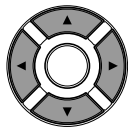


The time zone is set, and the display returns to the system menu. Proceed to the calendar setting.

Getting Started

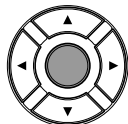
■ Calendar

- 1** Select “Clock Adj.” with the cursor buttons ([◀] [▶] [▲] [▼]), then press [ENTER].



```
=SYSTEM MENU= (1/2) →
*Clock Adj. *TimeZone
*Backup *Restore
```

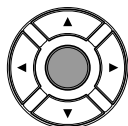
The current date and time appear.



```
=Clock Adjust= ENT
2009/01/01 13:54:30
```

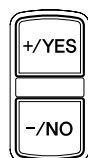
- 2** Press [ENTER].

The time setup screen appears with the cursor flashing on the hours display.



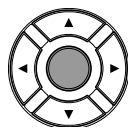
```
=Clock Adjust= ↔+ENT
2009/01/01 13:54:30
```

- 3** Select year, month, date, hours, minutes, and seconds with the cursor buttons ([◀] [▶]), then press [+ / YES] and [- / NO] to set a value.



```
=Clock Adjust= ↔+ENT
2009/01/01 14:54:30
```

- 4** Press [ENTER].



The date and time are stored in the internal calendar, and the display returns to the current time screen.

- 5** Press [BACK] on the remote control.

BACK



The display returns to the system menu screen.

Turning Off the Disklavier (Standby Mode)

Press [ON/STANDBY] on the remote control.

The ending screen appears, and [ON/OFF] on the control unit lights red.

ON/STANDBY



See you again

Note:

Press [ON/STANDBY] on the remote control to turn the Disklavier back on.

Shutting Down the Disklavier

Press [ON/OFF] on the control unit.

The ending screen appears, and [ON/OFF] on the control unit turns off.



See you again

Note:

Be sure to wait 5 seconds before turning the Disklavier back on.

Compatible Media Format for the Removable Media

Compact Disc

The Disklavier can play songs on commercial audio CDs and data CDs (such as PianoSoft-PlusAudio).

- The audio CDs should be formatted in CD-DA.
- The data CDs should be formatted in ISO 9660 Level 1.

USB Flash Memory

You can use commercially available USB flash memories to store song data. The USB flash memory should be formatted in FAT16 or FAT32 file system.

USB Hard Disk

You can use commercially available USB hard disk drives to store song data or make a backup of song data. The USB hard disk drive should be formatted in FAT32 file system.

Floppy Disk (Optional)

With the optional USB floppy disk drive, you can use 3.5" 2DD or 2HD floppy disks to store song data. The floppy disk should be formatted in MS-DOS.

Note:

If the external medium contains a number of albums or songs, it may take some time for the Disklavier to recognize them.

Note:

Do not insert or remove the USB media while reading or writing data. Make sure that reading or writing has finished before doing so.

Compatible File Format

The Disklavier can handle these three types of file format:

SMF0

Standard MIDI File format 0 for playback and recording. The name of the file should have an extension as “.MID” or “.mid.”

SMF1

Standard MIDI File format 1 for playback only. The name of the file should have an extension as “.MID” or “.mid.”

E-SEQ

Format developed by Yamaha, for playback only. The name of the file should have an extension as “.FIL” or “.fil.”

Basic Precautions for Using CDs

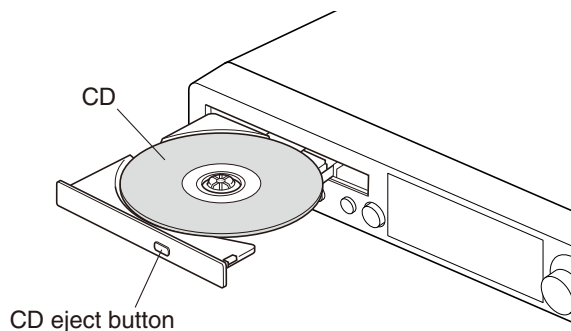
■ Handling CDs

In order to protect data stored on compact discs from damage or loss, handle them with care, and observe the following precautions.

- Do not touch the surface of a CD.
- Do not expose CDs to extreme temperatures or humidity. The working temperature range is between 4°C and 52°C (40°F and 125°F).
- Wipe CDs with a clean, dry cloth before playback.
- Remove the CD from the CD drive before turning off the Disklavier.

■ Loading a CD

- 1** Press the CD eject button on the control unit to open the CD tray.



- 2** Place a CD on the tray, and then close the tray.

Basic Song Playback

Types of Playable Software

PianoSoft and PianoSoft·Plus

When piano songs such as those contained in PianoSoft and PianoSoft·Plus software are played back on the Disklavier, the piano parts are actually played by the Disklavier keyboard, and the keys move up and down as though they were being played by an invisible performer. The ensemble parts (contained in PianoSoft·Plus software) are played by the internal tone generator and are heard from the monitor speakers*.



* Only for models supplied with the monitor speakers.

PianoSoft·PlusAudio

PianoSoft·PlusAudio songs are recorded using two channels, an analog MIDI channel for the piano parts and an audio channel for instrumentals and vocals. When they are played back on the Disklavier, the piano parts are played by the Disklavier keyboard as with PianoSoft and PianoSoft·Plus songs, and all other instrumental and vocal parts are heard from the monitor speakers* just like a normal stereo system.



SmartPianoSoft

SmartPianoSoft contains a recorded piano accompaniment to the commercial CDs, and the acoustic accompaniment will play back matching with the commercial CD. You can also record your own accompaniment for your favorite commercial CDs at home; play your Disklavier as you listen to a CD, and SmartPianoSoft will match the music together during playback, essentially adding you to famous performances.



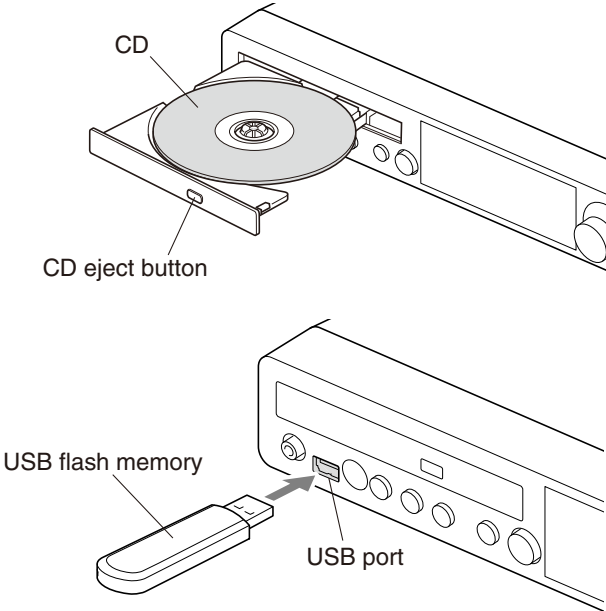
Standard Audio CDs

Standard audio CDs contain two audio channels (L and R), and are both heard from the monitor speakers* just like a normal stereo system. In other words, the Disklavier can be used to play CDs in place of a stereo system.

Selecting Medium and Their Contents

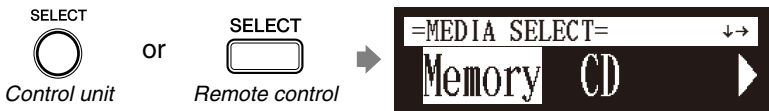
[SELECT]

1 Insert a desired medium.



2 Press [SELECT].

The media selection screen appears with the current selected medium highlighted.



3 Select a desired medium with the cursor buttons ([◀] [▶]).



The following media are available:

Medium	Description
Memory	Internal flash memory
CD	Audio CD or data CD
USB1, USB2	USB flash memory or USB HDD (USB1 indicates the first inserted one, and USB2 indicates the second.)
Playlist	Playlist in the internal flash memory
D-Radio	DisklavierRadio
FromToPC	Network folder in the internal flash memory

See Chapter 3 “Basic Song Playback – Listening to the DisklavierRadio” on page 26.

See Chapter 9 “Media Management – Copying Song File from a Personal Computer to the Disklavier” on page 92.

4 Press [ENTER] or [▼].

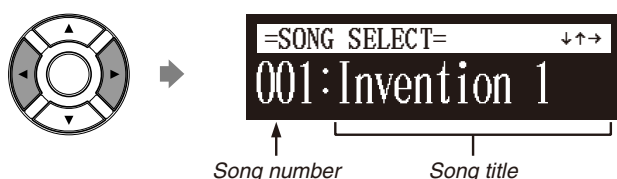
The album selection screen appears.

**5 Select a desired album with the cursor buttons ([◀] [▶]).**

To return to the media selection screen, press [▲].

6 Press [ENTER] or [▼].

The song selection screen appears.

**7 Select a desired song with the cursor buttons ([◀] [▶]).**

To return to the album selection screen, press [▲].

8 Press [ENTER].

The selected song is loaded.

Note:

The maximum number of the selectable albums in a medium is 99.

Note:

You can also select albums directly using the number keypad on the remote control. See Chapter 3 “Basic Song Playback – Using the Number Keypad” on page 20.

Note:

The maximum number of the selectable songs in an album is 999.

Note:

You can also select songs directly using the number keypad on the remote control. See Chapter 3 “Basic Song Playback – Using the Number Keypad” on page 20.

Using the Number Keypad

Album or song selection screen **Number button**

You can also select albums or songs directly with the number keypad on the remote control.

Press the corresponding number button, then press [ENTER].

For example, to select album number 5, first press [0], then [5], then [ENTER].



To select song number 36, first press [0], then [3], then [6], then [ENTER].



Note:

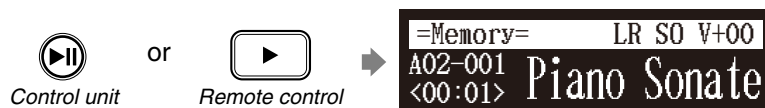
If you enter a number higher than the existed, the last album or song appears.

Starting Playback

[PLAY]

Press [PLAY/PAUSE] on the control unit or [PLAY] on the remote control.

[PLAY/PAUSE] on the control unit lights green, and the numerical value of the counter advances.

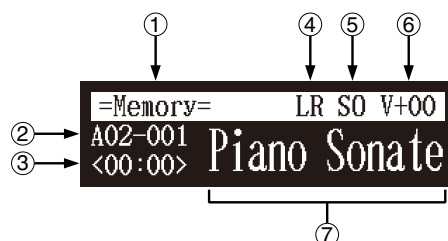


At the end of the song, the Disklavier selects the next song automatically and continues playback.

After playback the last song in the album, playback stops.

■ Song Playback Screen

Here are a few things that you will often see during playback.



① Media

The selected medium is displayed here.

② Album/Song Number

The number of the selected album and song is displayed here.

Display	Description
Axx-yyy	xx: album number (01 to 99) yyy: song number (001 to 999)
Pxx-yyy	xx: playlist number (01 to 99) yyy: song number (001 to 999)

③ Counter

Playing time is indicated in one of two formats.

Display	Description
xx:yy	Minutes (xx) and seconds (yy)
xxx-y	Measures (xxx) and beats (y)

④ Song Type

The type of the selected songs is displayed here.

Display	Description
LR	PianoSoft
XP	PianoSoft recorded on the PRO model
PS	SmartPianoSoft
SK	SmartKey
YM	PianoSoft-PlusAudio
AU	Stereo audio

⑤ Song Format

The format of the selected song is displayed here.

Display	Description
S0	SMF (Standard MIDI File) format 0
S1	SMF (Standard MIDI File) format 1
ES	E-SEQ format

⑥ Volume

The current volume setting is displayed here.

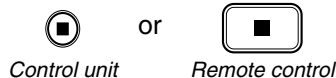
⑦ Song Title

The title of the selected song is displayed here. If the title is long, it scrolls across the display.

Stopping Playback

During playback **[STOP]**

Press [STOP].



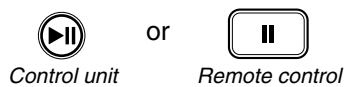
Playback stops, and the song returns to the beginning.

[PLAY/PAUSE] on the control unit turns off, and the counter is reset to "00:00" or "001-1."

Pausing Playback

During playback **[PAUSE]**

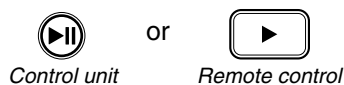
1 Press [PLAY/PAUSE] on the control unit, or [PAUSE] on the remote control.



Playback pauses.

[PLAY/PAUSE] on the control unit flashes, and the counter stops counting.

2 Press [PLAY/PAUSE] on the control unit or [PLAY] on the remote control to continue playback.



Fast Preview & Review

During playback **[FORWARD] or [REVERSE]**

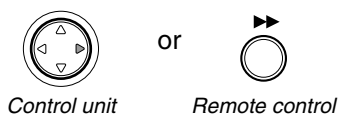
During playback, fast preview and review allow you to quickly search through a song **while listening to the sound**. This is useful for locating a desired position within a song.

Note:

No sound is produced by the piano when fast-previewing or reviewing PianoSoft-PlusAudio CDs.

■ Fast Preview

- 1** To preview, hold [►] on the control unit or press [FORWARD] on the remote control.

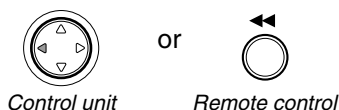


- 2** Release [►] on the control unit, or press [FORWARD] on the remote control again to return to normal playback.

If a song is previewed all the way to the end, it will be paused at the end of the song.

■ Fast Review

- 1** To review, hold [◀] on the control unit or press [REVERSE] on the remote control.



- 2** Release [◀] on the control unit, or press [REVERSE] on the remote control again to return to normal playback.

If a song is reviewed all the way to the beginning, it will be paused at the beginning of the song.

Fast Forward & Reverse

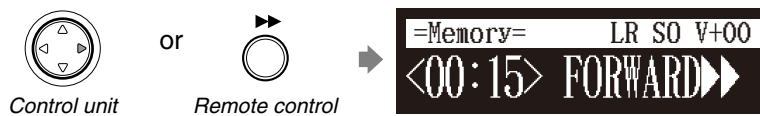
Stop or pause mode **[FORWARD] or [REVERSE]**

In the stop or pause mode, fast forward and reverse allow you to quickly locate a desired position in a song.

Reverse can also be used to return a song to the beginning, ready to play again.

■ Fast Forward

- 1** In the stop or pause mode, hold [▶] on the control unit or press [FORWARD] on the remote control.



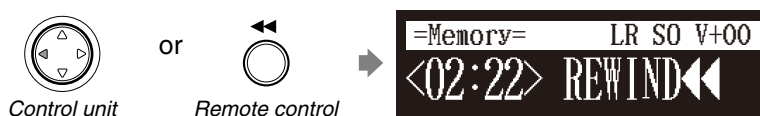
[PLAY/PAUSE] on the control unit flashes quickly and the counter shows the current position.

- 2** Release [▶] on the control unit, or press [FORWARD] on the remote control again to return to the pause mode.

If you fast forward a song all the way to the end, it will be paused at the end of the song.

■ Fast Reverse

- 1** In the pause mode, hold [◀] on the control unit or press [REVERSE] on the remote control.



[PLAY/PAUSE] on the control unit flashes quickly and the counter shows the current position.

- 2** Release [◀] on the control unit, or press [REVERSE] on the remote control again to return to the pause mode.

If you reverse a song all the way to the beginning, it will be paused at the beginning of the song.

Searching a Specific Section of a Song

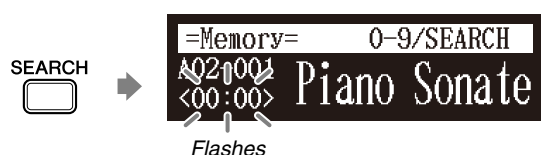
During playback or stop/pause mode **[SEARCH]**

Playback can be started from a specified point in a song. Instead of using fast forward or preview, you can use this function to go directly to a desired point within a song.

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

1 Press **[SEARCH]** on the remote control.

The song search screen appears with the counter flashing.



The song will be paused at the exact point as you press **[SEARCH]**.

2 Enter the time that you want to search for with the number keypad.

For example, to search for 2:56 (minutes and seconds), first press [0], then [2], [5], and [6].



For example, to search for 52-3 (measures and beats), first press [0], then [5], [2], and [3].



3 Press **[SEARCH]** again.



The position of the song goes to the specified point.

Note:

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

Listening to the DisklavierRadio

Media selection screen "D-Radio"

You can listen to streaming broadcasts of music, with many channels of music contents.

1 Select "D-Radio" in the media selection screen.

The channel selection screen appears.

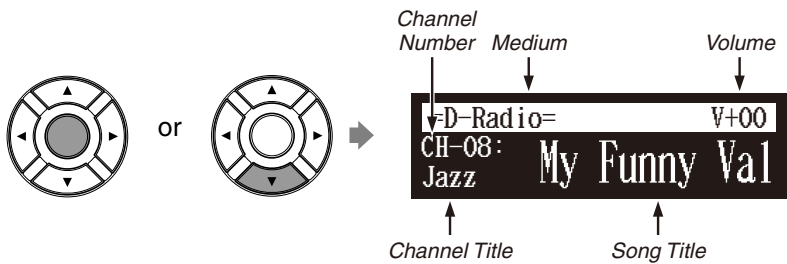


2 Press [◀] or [▶] or [+/YES] or [-/NO] to select a channel.

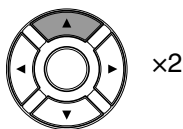


3 Press [ENTER] or [▼] to begin the broadcast of the selected channel.

The DisklavierRadio screen appears.



4 Press [▲] twice to stop the broadcast and return to the media selection screen.



To enjoy the DisklavierRadio, first you need to connect to the Internet. See Chapter 10 "Internet Direct Connection (IDC) – Connecting the Disklavier to the Internet" on page 101.

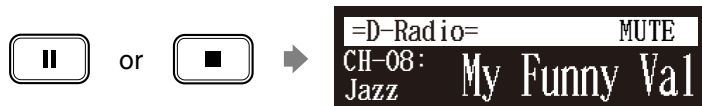


To select a medium, see Chapter 3 "Basic Song Playback – Selecting Medium and Their Contents" on page 18.

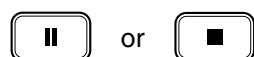
■ Muting the Sound

1 Press [PAUSE] or [STOP].

“MUTE” appears on the upper right of the screen.



2 Press [PAUSE] or [STOP] again to release muting.



Note:

Streaming broadcasts continue during muting. Therefore, the song broadcasted when releasing muting may differ from the one when muting.

Adjusting the Volume

[VOLUME +] or [VOLUME -]

You can adjust volume with the control unit or with the remote control as described below. Since all piano songs are recorded at the maximum volume level of 0, volume can be decreased down to -10, the softest volume at which the piano can play.

For ensemble songs, the volume of the piano and internal XG tone generator are adjusted simultaneously, so it is a good idea to first balance the volume of the piano and XG tone generator.

For songs on PianoSoft·PlusAudio, you should first balance the volume of the MIDI piano and audio parts.

Note:

This setting does not affect manual playing.



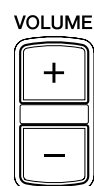
See Chapter 4 “Advanced Song Playback – Adjusting the Volume Balance among the Keyboard Playing, Ensemble Sound, and Software Playback” on page 32.

1 Press [VOLUME +] or [VOLUME -] on the remote control.

The main volume setting screen appears.



2 Press [VOLUME +] or [VOLUME -] to adjust the volume.



Volume can be adjusted in a range of -10 to 0.

Note:

You can also use the dial on the control unit to adjust the volume.

Note:

When the volume is set to -10, there may be a slight delay in sound production following key strokes, and the Disklavier may skip some notes. Furthermore, at this volume setting, touch strength does not affect note dynamics.

Advanced Song Playback

Changing the Playback Tempo

[TEMPO -] or [TEMPO +]

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

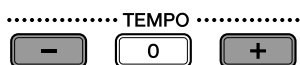
These tempo settings remain in effect until recording is started, another medium or album is selected, or the Disklavier is turned off.

1 Press [TEMPO -] or [TEMPO +] on the remote control.

The tempo setting screen appears.

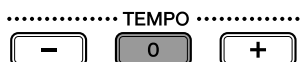


2 Press [TEMPO -] or [TEMPO +] to adjust the tempo.



Playback tempo can be adjusted from -50% to +50% in 1% increments.

Press [TEMPO 0] to set to the original tempo.



Note:

You cannot change the playback tempo of songs on audio CDs.



Tempo changes to songs that you have recorded yourself can be made permanent. See Chapter 8 “Advanced Recording – Changing the Default Tempo” on page 63.

Note:

You can also use the dial on the control unit to adjust the tempo.

Playing Back Songs in a Different Key (Transposition)

[TRANSPOSE -] or [TRANSPOSE +]

Playback can be transposed up or down by up to two octaves. This is useful, for example, when you want to sing along (karaoke) in a different key from the original recording.

Transposition changes remain in effect until recording is started, another medium or album is selected, or the Disklavier is turned off.

Note:

This function cannot be used to transpose songs from external devices connected to the OMNI IN jacks, or on audio CDs.

- 1 Press [TRANPOSE -] or [TRANPOSE +] on the remote control.

The transposition setting screen appears.



- 2 Press [TRANPOSE -] or [TRANPOSE +] to change the key.



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

Press [TRANPOSE 0] to set to the original key.



Note:

You can also use the dial on the control unit to adjust the key.

Repeating Song Playback

[REPEAT]

There are three repeat modes (ALL, RPT, RND) as described below. You can use these functions for entertainment or study purpose.

Repeat mode settings remain in effect until recording is started, another medium or album is selected, or the Disklavier is tuned off.

- 1 Press [REPEAT] on the remote control.

The repeat setting screen appears.



- 2 Press [REPEAT] to select repeat modes.



The following options are available:

Option	Description
ALL	Repeats all songs on the selected album.
RPT	Repeats selected song.
RND	Shuffles the order of songs on the selected album and repeats the cycle.
OFF	Plays back songs normally.

3 Press [PLAY] to start repeat playback.



4 To cancel the repeat mode, press [REPEAT] until “OFF” appears on the screen.



Repeating a Specific Section of a Song (A-B Repeat)

During playback **[A-B]**

In the A-B repeat, playback is repeated between two specified points in a song: point A and point B. This function is useful when practicing or memorizing a difficult section of a song.

Once specified, points A and B are saved until another song is selected, recording is started, or the Disklavier is turned off.

1 To set point A, play back a song and press [A-B] on the remote control when the desired point is reached.

Point A is set.
The A-B repeat setting screen appears with the “B” flashing.

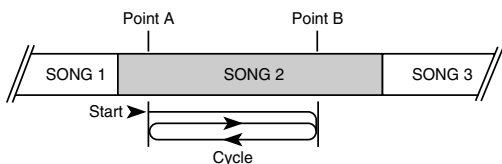


2 To set point B, press [A-B] again.

Point B is set.



Playback starts from point A, continues up to point B and, returns to point A and playback starts repeatedly.



Note:
You cannot set point B that is beyond the selected song.

- 3** To cancel the A-B repeat, press [A-B] so that “OFF” flashes on the screen.



Pressing [BACK] also cancels the point setting, and returns to the song playback screen.

Note:

The A-B repeat is cancelled if you escape from the A-B repeat setting screen by other operations.

Playing Back Only the Desired Piano Part

[PART SELECT L] or [PART SELECT R]

This could be useful, for example, when listening carefully to one part, and also when you practice only the left- or right-hand part while the Disklavier plays the other.

■ Cancelling the Piano Part

- 1** Select the desired song.
- 2** Press [PART SELECT L] or [PART SELECT R] on the remote control to cancel a part.

The part cancellation screen appears with the corresponding part canceled.



Notes of displays:

Display	Description
L	Left hand part
R	Right hand part
P	Pedal part
ON	Plays part
OFF	Cancels part
G	Plays part with guide (only for SmartKey song)
---	No plays on part

- 3** To replay the cancelled part, press [PART SELECT L] or [PART SELECT R] again so that “ON” appears on the screen.



- 4** Press [BACK] to return to the song playback screen.



To select a song, see Chapter 3 “Basic Song Playback – Selecting Medium and Their Contents” on page 18.

Note:

For the SmartKey song, “ON”, “OFF” and “G” appear sequentially each time you press [PART SELECT L] or [PART SELECT R].

■ Cancelling the Pedal Part

- 1** On the part cancellation screen, press [▶] to select “P=.”



- 2** Press [–/NO] to cancel a pedal part.



- 3** To replay the pedal part, press [+ /YES] with the cursor is on “P=.”



- 4** Press [BACK] to return to the song playback screen.



Adjusting the Volume Balance among the Keyboard Playing, Ensemble Sound, and Software Playback

[BALANCE]

Besides adjusting the overall volume, the volume balance among the different sound sources as described below can be adjustable.

TG: Adjusts the volume of the ensemble sound reproduced by the tone generator (TG) of the Disklavier.

Audio: Adjusts the volume of the accompaniment or standard audio sound pre-recorded in the software (CDs).

Voice: Adjusts the volume of the ensemble voice when you play using the voice function.

Note:

You cannot adjust the volume balance during the DisklavierRadio playback.



See Chapter 5 “Advanced Piano Playing – Playing the Disklavier with an Ensemble Voice” on page 44.

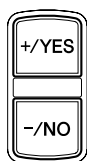
■ Adjusting the TG Balance

1 Press [BALANCE] on the remote control.

The TG balance setting screen appears.



2 Press [+ / YES] and [- / NO] to adjust the volume of the tone generator.



Tone generator volume can be adjusted in a range of 10 to 127.

Note:

You can also use the dial on the control unit to adjust the volume.

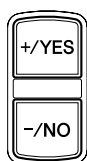
■ Adjusting the Audio Balance

1 Press [BALANCE] twice on the remote control.

The audio balance setting screen appears.



2 Press [+ / YES] and [- / NO] to adjust the volume of the audio.



Audio volume can be adjusted in a range of 10 to 127.

Note:

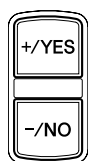
You can also use the dial on the control unit to adjust the volume.

Advanced Song Playback

■ Adjusting the Voice Balance

1 Press [BALANCE] three times on the remote control.

The voice balance setting screen appears.

**2** Press [+ / YES] and [- / NO] to adjust the volume of the voice.

Voice volume can be adjusted in a range of 0 to 127.

Note:

You can also use the dial on the control unit to adjust the volume.

Adjusting the Pitch of Audio

During playback **[FUNC.]**

You can temporarily adjust the pitch of the song contains audio (PianoSoft·PlusAudio, SmartPianoSoft) or an audio CD for your listening pleasure.

Pitch adjustments are effective until another medium or album is selected, recording is started, or the Disklavier is turned off.

1 During the song playback, press [FUNC.] on the remote control.

The audio pitch setting screen appears.

**2** Press [+ / YES] and [- / NO] to change the audio pitch.

Audio pitch can be adjusted in a range of -50 cent to +50 cent (one semitone as 100 cents).

Note:

This function cannot be used to adjust the pitch of external audio CDs connected to the OMNI IN jacks.

Adjusting the L/R Balance of Audio

During playback **[FUNC.]**

You can temporarily adjust the L/R balance of an audio CD.

Balance adjustments are effective until another song is selected, recording is started, or the Disklavier is turned off.

1 During the song playback, press **[FUNC.]** several times.

The audio pan setting screen appears.



2 Press **[+/YES]** and **[-/NO]** to change the audio pan.



The following pan settings are available:

Option	Description
Left	Audio of the L channel is output to both of the L and R channels.
Center	Audio of the L channel is output to the L channel, and the R channel is output to the R channel.
Right	Audio of the R channel is output to both of the L and R channels.

Using the Timer Play

[SETUP] "TimerPlay"

You can program your Disklavier to start or stop playback of a song at various specified times. All you need to do is register up to a maximum of 99 timer settings, and your Disklavier will perform them unattended. This function is called "timer play."

The following describes how to play back the first album in the internal flash memory at 8:15 AM.

1 Press [SETUP] on the remote control.

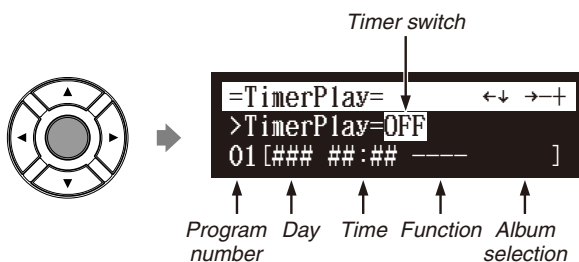
The setup menu screen appears.



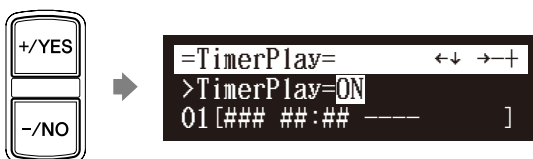
2 Select "TimerPlay" with the cursor buttons ([◀][▶][▲][▼]), then press [ENTER].



The timer play setting screen appears.



3 Confirm that the cursor is on the timer switch, then press [+ / YES] and [- / NO] to switch the timer play on and off.



Note:

The internal calendar must be set in advance in order for the timer play to function. See Chapter 2 "Getting Started – Setting the Internal Calendar" on page 12.

Note:

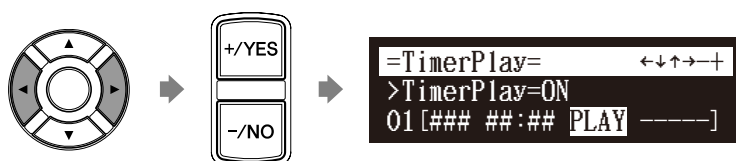
The control unit must be turned on in advance in order for the timer play to function. The timer play cannot turn on/off the control unit.

- 4** Press [▲] and [▼] to select the desired program number.



The cursor moves to the function parameter.

- 5** Press [◀] and [▶] to move the cursor to the function parameter, then press [+ / YES] and [- / NO] to select the desired function.

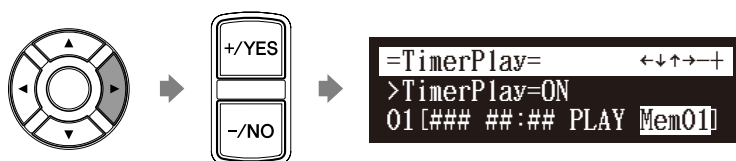


The following functions are available:

PLAY	Starts playback of songs.
STOP	Stops playback of songs.
RND	Starts playback of songs at random.
OFF	Turns off the Disklavier (standby mode).

When “PLAY” or “RND” is selected, the album selection parameter appears.

- 6** Press [▶] to move the cursor to the album selection parameter, then press [+ / YES] and [- / NO] to select the desired album.



The following selections are available:

Mem01 - Mem99	Albums (01 - 99) in the internal flash memory.
Lst01 - Lst99	Playlists (01 - 99) created in the internal flash memory.
Radio	The last DisklavierRadio channel you have listened to.
-----	Current selected song.

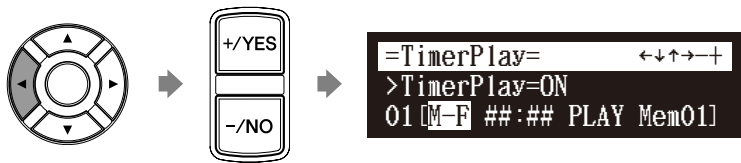
Note:

You cannot select “Radio” if you select “RND” in step 5.

Note:

When “Radio” is selected, the Disklavier will connect to the Internet one minute prior to the time you have set, and the channel selection screen appears. DisklavierRadio will begin to play at the designated time.

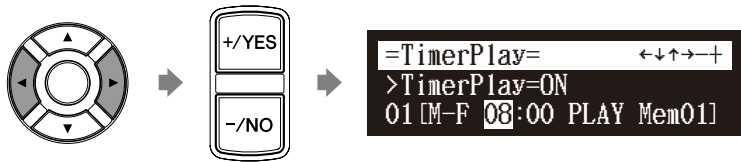
7 Press [◀] to move the cursor to the day parameter, then press [+ / YES] and [- / NO] to select the desired day.



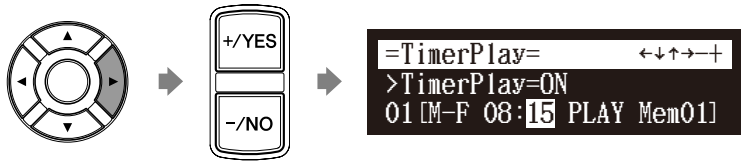
The following day settings are available:

ALL	The timer play functions on every day of the week.
MON	The timer play functions only on Monday.
TUE	The timer play functions only on Tuesday.
WED	The timer play functions only on Wednesday.
THU	The timer play functions only on Thursday.
FRI	The timer play functions only on Friday.
SAT	The timer play functions only on Saturday.
SUN	The timer play functions only on Sunday.
M-F	The timer play functions on Monday thru Friday.
M-S	The timer play functions on Monday thru Saturday.

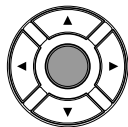
8 Press [▶] to move the cursor to the hour parameter, then press [+ / YES] and [- / NO] to set hours.



9 Press [▶] to move the cursor to the minute parameter, then press [+ / YES] and [- / NO] to set minutes.



10 Press [ENTER] to return to the setup menu screen.



■ About Song Playback Screen

When the song playback is stopped — with the timer play function is set to ON and the current time is displayed — “T” flashes to the right side of the current time.



↑
Indicates that the timer play is on.

Skipping the Blank Part at the Beginning of a Song

[SETUP] "Playback"

When there is a blank part created at the beginning of the recorded song, turning on this function automatically skips the unwanted part and starts playback from the actual beginning of the song.

1 Press [SETUP] on the remote control.

The setup menu screen appears.



2 Select "Playback" with the cursor buttons ([◀][▶][▲][▼]), then press [ENTER].



The playback setting screen appears with the cursor flashing.



3 Press [+ / YES] and [- / NO] to change setting.



Note:

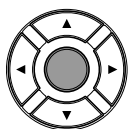
The "Reverb" option appears only on models equipped with the Silent Piano™ function.

Note:

The "KeyMotion" option appears only on models equipped with the Silent Piano™ function.

Advanced Song Playback

- 4** Press [ENTER] to return to the setup menu screen.



Video Synchronized Playback

You can enjoy piano playback with the video recorded on the DVD recorder.

- 1** Perform the video synchronized recording in advance.
- 2** Make sure that the OMNI IN setting is set to “AutoDetect”.
- 3** Turn down the volume completely on the TV if you connect the audio output of the DVD recorder to the TV.

Turn down the volume completely on the camcorder if you use the camcorder only.

- 4** Start playback on the DVD recorder.

Start playback on the camcorder if you use the camcorder only.

The Disklavier automatically searches and selects the song paired with the video, and then starts playback as well.

```
=Memory= (SYNC) SO V+00
A01-005 PIANO005.MID
<00:03>
```

If the piano playing is not synchronized with the video

Adjust the offset time for synchronization. See Chapter 11 “Enhancing the Disklavier by Hooking Up Other Devices – Setting the Disklavier for Audio Data Reception/Transmission” on page 110.

If noises (synchronized signal) are heard during playback

Turn down the signal level and re-record. See Chapter 11 “Enhancing the Disklavier by Hooking Up Other Devices – Setting the Disklavier for Audio Data Reception/Transmission” on page 110.



For details on video synchronized recording, see Chapter 8 “Advanced Recording – Video Synchronized Recording” on page 65.

Note:

Be sure to rewind the video cassette to locate the beginning of the recording. It may take some time before piano playback starts if you start playback halfway through the video.

Note:

When using the song copied to the USB flash memory, it may take some time until the Disklavier recognizes the information for synchronization.



See “Setting for Video Synchronized Recording” on page 65.

Note:

When searching for songs for video synchronized playback from a USB flash memory, you can search from a maximum of 150 songs per USB flash memory. It is therefore recommended that you copy songs for video synchronized playback onto the internal memory. When saving onto a USB flash memory, it is recommended that you do not exceed a total of 150 saved songs per memory.

Note:

You cannot operate the Disklavier using the control unit or remote control during video synchronized playback. If you want to stop playback of the song, stop playback on the DVD recorder (or the camcorder).

Adding Disklavier Accompaniment to Commercial CD Songs (PianoSmart™ Playback)

Insert a CD → Select a SmartPianoSoft song → [PLAY]

You can add a Disklavier piano performance you recorded or on commercially available SmartPianoSoft software to the playback of songs on your favorite CDs.

1 Insert a desired CD that you want to synchronize with the SmartPianoSoft song.

2 Select a desired SmartPianoSoft song.

3 Press [PLAY].

Playback begins with the CD playback.



To record the piano performance to add, see Chapter 8 “Advanced Recording – CD Synchronized Recording” on page 69.



To select a song, see Chapter 3 “Basic Song Playback – Selecting Medium and Their Contents” on page 18.

SmartKey™ Playback

Select a SmartKey song → [PLAY]

Special SmartKey software uses all the “SmartKey” features to create an exciting way in which non-players can learn to play simple melodies, one note at a time, without the need for written music. SmartKey software does this by partially depressing the piano key to signal which note should be played. The Disklavier then waits for you to press this key before it continues to the next note in the melody (If you miss the movement of the key, the Disklavier will repeat the movement until you press the key). When you press the key, the Disklavier will reward you with ear tickling phrases, incredible harmonies, and lush arpeggios to give you the aural and visual image of a complete high-quality performance. In short, it SHOWS you which key to play, WAITS for you to play that key before it continues, and REWARDS you with music. It is like having an eternally patient music teacher showing your fingers which notes to play.

1 Select a desired SmartKey song.



To cancel the SmartKey playback, see Chapter 4 “Advanced Song Playback – Playing Back Only the Desired Piano Part” on page 31.

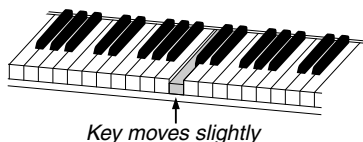


To select a song, see Chapter 3 “Basic Song Playback – Selecting Medium and Their Contents” on page 18.

Advanced Song Playback

2 Press [PLAY].

Playback stops, and the key to play next moves slightly.



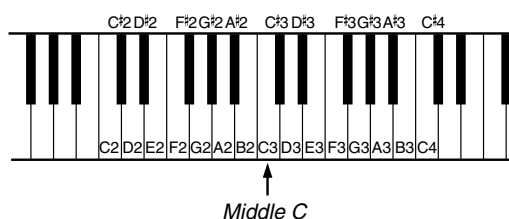
The key to play flashes in the counter.

**3** Play the key that the keyboard indicates.

This will continue until the song is finished. Notice that the Disklavier patiently waits for you to play the right key before proceeding to the next key. Also, notice that if you happen to miss the cue, it will gently remind you what the key is every few seconds until you play the right key.

■ Key Notation

As a reference, "C3" is middle "C", which means "C4" is an octave above middle "C" and so on.



Playing the Disklavier along with the Internal Metronome

[METRONOME]

The internal metronome helps you playing along the meter (beat) and the tempo you set. Also the volume of the metronome can be adjusted.

1 Press [METRONOME] on the remote control.

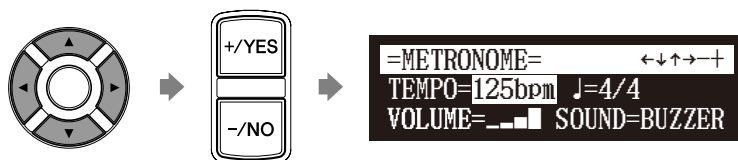
The metronome setting screen appears and the metronome starts to click.



Note:

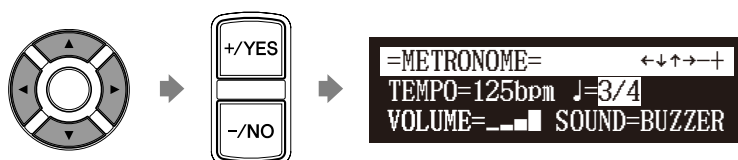
The tempo parameter displayed on the metronome setting screen indicates the number of beats in a minute, and one beat represents a quarter. When you play a song written in different measure unit from quarter note, change the setting (e.g. When playing a song in 3/2, set beat to 6/4).

2 To change the tempo, move the cursor to the tempo parameter ("TEMPO") with the cursor buttons ([◀] [▶] [▲] [▼]), then press [+ / YES] and [- / NO].



The tempo can be adjusted in a range of 30 bpm to 400 bpm.

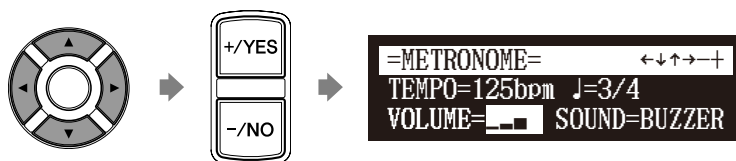
3 To change the beat, move the cursor to the beat parameter ("J") with the cursor buttons ([◀] [▶] [▲] [▼]), then press [+ / YES] and [- / NO].



The following beat settings are available: 1/4, 2/4, 3/4, 4/4, 5/4, 6/4, 7/4, 8/4, 9/4.

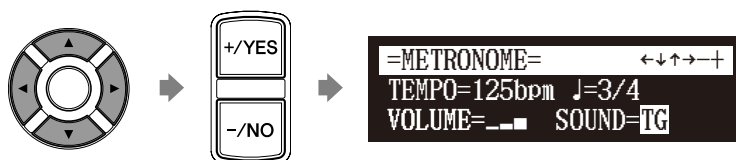
Advanced Piano Playing

- 4** To change the volume, move the cursor to the volume parameter (“VOLUME”) with the cursor buttons ([◀] [▶] [▲] [▼]), then press [+ / YES] and [- / NO].



The volume can be adjusted in 4 steps.

- 5** To change the sound, move the cursor to the sound parameter (“SOUND”) with the cursor buttons ([◀] [▶] [▲] [▼]), then press [+ / YES] and [- / NO].



The following sound settings are available: BUZZER, TG

- 6** To cancel this function, press [METRONOME] again.

**Note:**

The sound parameter does not appear when the quiet or headphone mode is activated on models equipped with the Silent Piano™ function. The metronome sound is fixed to “TG.”

Playing the Disklavier with an Ensemble Voice

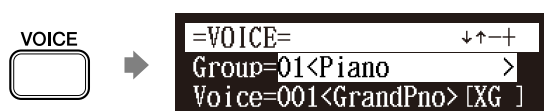
[VOICE]

The Disklavier’s [VOICE] lets you assign a voice from the internal XG tone generator to accompany the piano while you play. You will hear in unison the piano sound coming from the Disklavier and an ensemble voice produced by the internal XG tone generator. This is sometimes referred to as voice layering or unison.

The internal XG tone generator offers 480 instrumental voices and 11 drum kits for playing the keyboard.

- 1** Press [VOICE] on the remote control.

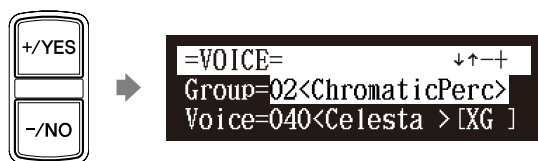
The voice selection screen appears, and the voice function is activated.



For details on voice groups and voices, see Chapter 13 “Internal Tone Generator Voices” on page 131.

2 Press [+ / YES] and [- / NO] to select a voice group.

Changing the voice group displays the top voice of that group in the voice parameters.



3 To change the voice, press [▼] to move the cursor to the voice parameter (“Voice”), then press [+ / YES] and [- / NO].



If necessary, adjust the volume of the voice in the voice balance setting screen.

4 To inactivate this function, press [VOICE] again.



See Chapter 4 “Advanced Song Playback – Adjusting the Volume Balance among the Keyboard Playing, Ensemble Sound, and Software Playback” on page 32.

Note:

The voice function is inactivated if you escape from the voice selection screen by other operations.

The Silent Piano™ Function

This chapter describes useful functions for piano playing, silencing the acoustic piano.
(Only for models equipped with the Silent Piano™ function)

What is the Silent Piano™ Function?

The Disklavier incorporates Yamaha's innovative Silent Piano™ function that keeps the hammers from striking the strings, effectively silencing the acoustic piano. Sound information is sent to the digital piano tone generator, and output through the monitor speakers* or stereo headphones. Additionally, the optical sensor system registers every nuance of a player's performance with no interference whatsoever to the player's touch of the keys.

When you play back songs in normal mode, the acoustic piano plays the piano parts, providing live piano performance, and the accompanying sounds are output through the monitor speakers*. When you engage the Silent Piano™ function, the acoustic piano is silenced and the piano parts are played by the digital piano tone generator. This enables you to adjust the volume of not only the accompanying sounds but of the piano as well as that you can enjoy listening to songs quietly through the monitor speakers* or silently through stereo headphones.

* Only for models supplied with the monitor speakers.

Quiet Mode and Headphone Mode

There are two modes to the Silent Piano™ function; quiet mode and headphone mode. You can select either mode to suit your surroundings.

Quiet Mode

In the quiet mode, sound is output through the monitor speakers*. By adjusting the volume, you can listen to songs or play the keyboard more quietly than on the acoustic piano.

* Only for models supplied with the monitor speakers.

Headphone Mode

In the headphone mode, sound is output through the stereo headphones. Using headphones allows you to listen to songs or play the piano privately at any time, day or night.

Note:

For grand pianos, connecting headphones to the Silent Piano™ control box activates the headphone mode. For upright pianos, connecting headphones in the quiet mode activates the headphone mode.

Playing the Digital Piano (Quiet Mode)

For grand piano: **[QUIET] or blue button**

For upright piano: **Slide the center pedal**

Put the Disklavier in the quiet mode when you listen to songs or play the piano more quietly than on the acoustic piano. When the quiet mode is activated, you are essentially playing the digital piano.

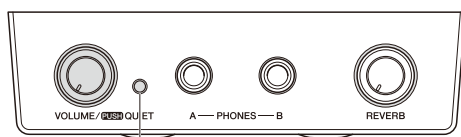
Note:

Even though the quiet mode is activated, the keying sound of the keyboard remains.

■ For Grand Pianos

Push the [QUIET] switch on the Silent Piano™ control box, or press the blue button on the remote control to play the digital piano.

The [QUIET] indicator on the Silent Piano™ control box lights green and the quiet mode is activated.

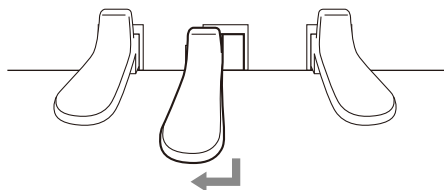


[QUIET] indicator

To disengage the quiet mode, push the [QUIET] switch on the Silent Piano™ control box again, or press the red button on the remote control.

■ For Upright Pianos

Press the center pedal and slide it to the left.



To disengage the quiet mode, set the center pedal to the original position.

The Silent Piano™ Function

Using the Headphones (Headphone Mode)

For grand piano: **Connect the headphones**

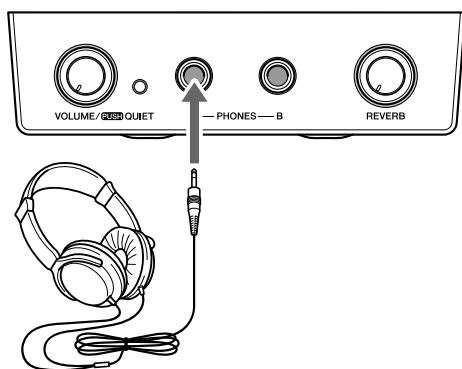
For upright piano: **Slide the center pedal** **Connect the headphones**

Put the Disklavier in the headphone mode when you listen to songs or play the piano privately at any time, day and night.

■ For Grand Pianos

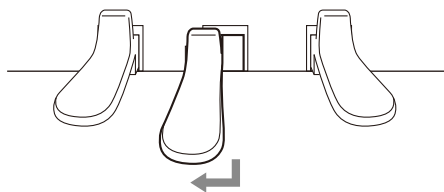
Connect the headphones to the PHONES jack on the Silent Piano™ control box.

The [QUIET] indicator on the Silent Piano™ control box lights green and the headphone mode is activated.

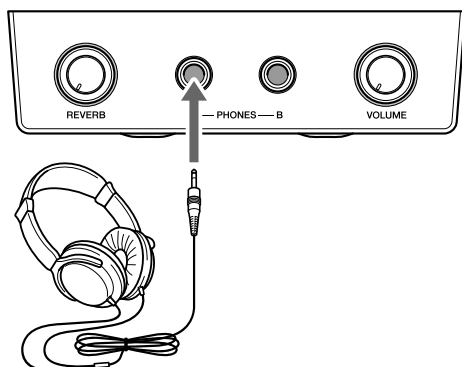


■ For Upright Pianos

1 Press the center pedal and slide it to the left.



2 Connect the headphones to the PHONES jack on the Silent Piano™ control box.



Caution:

To prevent damage to your hearing, refrain from raising the volume to excessive levels, and do not use the headphones for extended periods of time.

Note:

Even though the headphone mode is activated, the keying sound of the keyboard remains.

Adjusting the Volume in the Quiet Mode

[VOLUME +] or [VOLUME -]

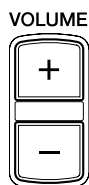
In the quiet mode, volume can be adjusted with the remote control.

1 Press [VOLUME +] or [VOLUME -] on the remote control.

The main volume setting screen appears.



2 Press [VOLUME +] or [VOLUME -] to adjust the volume.



Volume can be adjusted in a range of -10 to 0.

Note:

You can also use the dial on the control unit to adjust the volume.

Adjusting the Volume in the Headphone Mode

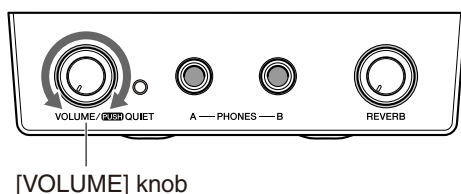
[VOLUME]

In the headphone mode, volume can be adjusted with the [VOLUME] knob on the Silent Piano™ control box. Turn the knob clockwise to increase and counterclockwise to decrease the volume.

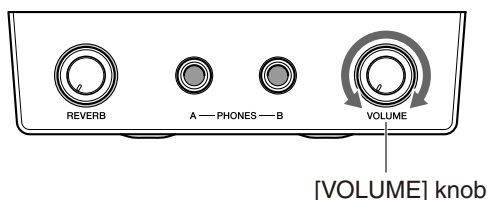
Note:

Turning the knob fully counterclockwise mutes the sound of the digital piano.

■ For Grand Pianos



■ For Upright Pianos



Selecting the Voice in the Quiet/Headphone Mode

[VOICE]

In the quiet or headphone mode, you can select the digital piano sound (voice) that expresses various instruments to your preference.

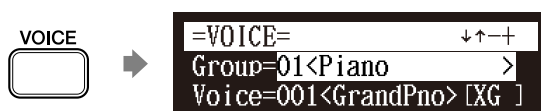
The internal XG tone generator offers 480 instrumental voices and 11 drum kits for playing the keyboard.



For details on voice groups and voices, see Chapter 13 “Internal Tone Generator Voices” on page 131.

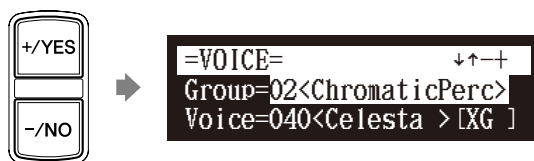
1 Press [VOICE] on the remote control.

The voice selection screen appears, and the voice function is activated.



2 Press [+ / YES] and [- / NO] to select a voice group.

Changing the voice group displays the top voice of that group in the voice parameters.



3 To change the voice, press [▼] to move the cursor to the voice parameter (“Voice”), then press [+ / YES] and [- / NO].



If necessary, adjust the volume of the voice in the voice balance setting screen.

4 To inactivate this function, press [VOICE] again.



See Chapter 4 “Advanced Song Playback – Adjusting the Volume Balance among the Keyboard Playing, Ensemble Sound, and Software Playback” on page 32.

Note:

The voice function is inactivated if you escape from the voice selection screen by other operations.

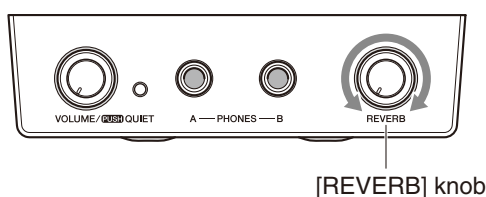
Applying the Reverb Effect to the Digital Piano

[SETUP] "Reverb"

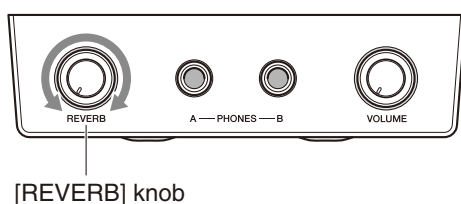
A piano sounds differently depending on the size of the room, or the material of the building in which it is played. The reverberation is the major reason for this difference. Using the reverb functions of the Disklavier and simulating the reverberation in a concert hall, gives you the feeling of the being at a live performance.

- 1 Turn the [REVERB] knob clockwise to turn the reverb effect on.

For Grand Pianos



For Upright Pianos



Note:

The reverb effect setting is saved even though the Disklavier is turned off.

Note:

Reverb is off when the [REVERB] knob is turned fully counterclockwise.

- 2 Press [SETUP] on the remote control.

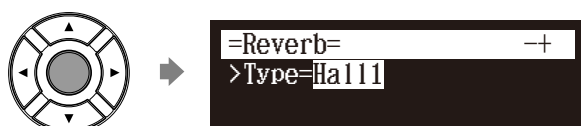
The setup menu screen appears.



- 3 Select "Reverb" with the cursor buttons ([◀][▶][▲][▼]), then press [ENTER].

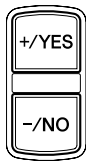


The reverb setting screen appears.



The Silent Piano™ Function

4 Press [+ / YES] and [- / NO] to select the desired reverb effect.

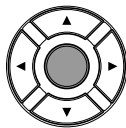


The following reverb settings are available:

Type	Description
Room	Simulates the reverb of a medium-sized room
Hall1	Simulates the reverb of a small concert hall
Hall2	Simulates the reverb of a large concert hall

Note:
The default setting for the reverb effect is “Hall1.”

5 Press [ENTER] to return to the setup menu.



6 Adjust the reverb depth with the [REVERB] knob.

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

Inactivating the Key Movement during Playback

During playback **[FUNC.]**

During playback of a song, key normally move in accordance with the playback of the respective note’s key. In the quiet or headphone mode, you can select an option of stopping this key movement. This enables you, for example, to play along with the song being played back, to add your own improvisation, or to create a four-hand duet.

Note:
Key movement can only be inactivated in the quiet or headphone mode. Otherwise, the keys will always move during playback, with the exception of L/R song playback, in which you can cancel either the left- or right-hand piano part.

1 During the song playback in the quiet or headphone mode, press [FUNC.] several times.

The key motion setting screen appears.



Note:
You can change the setting for key movement from the “Playback” option in the setup menu.

2 Press [+ / YES] and [- / NO] to change the setting.



Basic Recording

A song that you play on the Disklavier can be recorded and the recorded song can be easily saved for the selected medium. Furthermore, you can title your new recording for simple distinguish before recording.

Recording a New Song

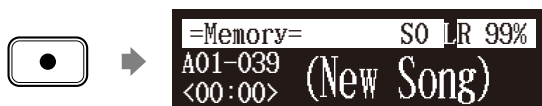
[RECORD]

You can save a new song that you play for an album.

1 Select a destination medium and album.

2 Press [RECORD].

The recording standby screen appears, and [RECORD] on the control unit lights red and [PLAY/PAUSE] flashes in green.



The level appears in the format section as soon as you play a keyboard or press a pedal.

3 Press [PLAY].



[PLAY/PAUSE] stops flashing.
The Disklavier is now ready for you to play.

4 Start playing your song.

Recording will start automatically as soon as you touch a key. The counter starts to advance.



5 Press [STOP] when you finish playing your song.



The recorded song is loaded.

Note:

Up to 999 songs can be recorded in a medium.



To select a medium and album, see Chapter 3 “Basic Song Playback – Selecting Medium and Their Contents” on page 18.

Note:

You cannot select “CD” as the destination medium.

Titling a Song at the Start of Recording

[RECORD] [FUNC.]x2

Title a new song before you start recording.

1 Select a destination medium and album.

2 Press [RECORD].

3 Press [FUNC.] twice in the recording standby screen.

The song title editing screen appears.



4 Enter a title to a new song.



You can enter up to 64 characters.
Follow the instructions in “Entering Characters” on next page.

5 Press [PLAY] after title determined.



Recording begins.



To select a medium and album, see Chapter 3 “Basic Song Playback – Selecting Medium and Their Contents” on page 18.

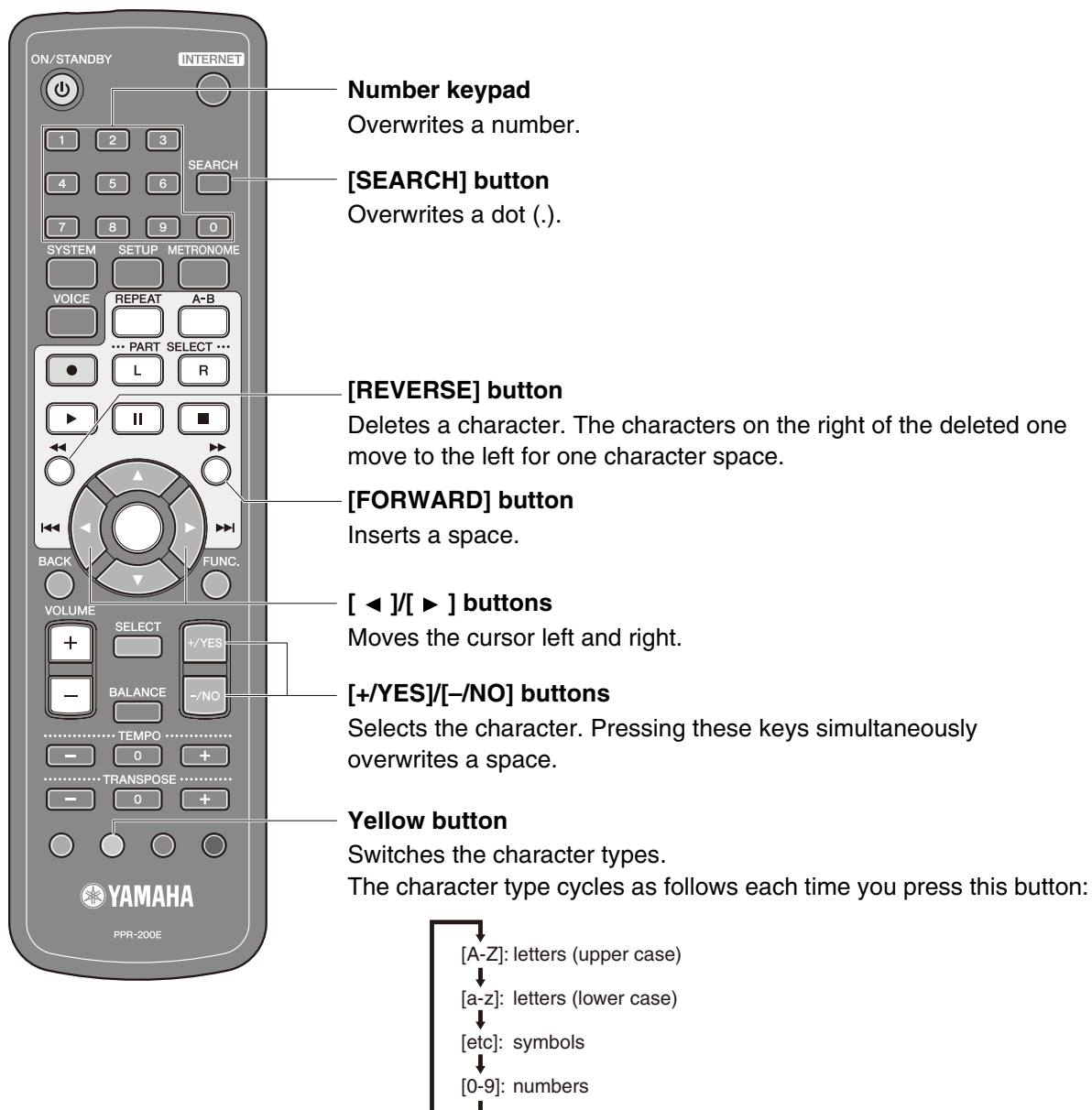


To rename the existing song, see Chapter 9 “Media Management – Renaming a Song” on page 79.

■ Entering Characters

How to Enter Characters with the Remote Control

The following illustration shows how to enter characters with the remote control.



Available Characters

The following table shows which characters are available.

Character Type	Characters													
Letters (Upper Case) [A-Z]	Space		A	B	C	D	E	F	G	H	I	J	K	L
	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Letters (Lower Case) [a-z]	Space		a	b	c	d	e	f	g	h	i	j	k	l
	m	n	o	p	q	r	s	t	u	v	w	x	y	z
Symbols [etc]	Space		!	”	#	\$	%	&	'	()	*	+	,
	-	.	/	:	;	<	=	>	?	_	@			
Numbers [0-9]	Space		0	1	2	3	4	5	6	7	8	9		

Advanced Recording

This chapter describes further functions for the advanced piano recording such as playing and measuring the current playing song tempo with the metronome, recording the left-hand part and the right-hand part separately.

Recording with the Internal Metronome

[METRONOME] [RECORD]

You can use the metronome to record songs.

Songs recorded with the metronome will be in the measures and beats format.

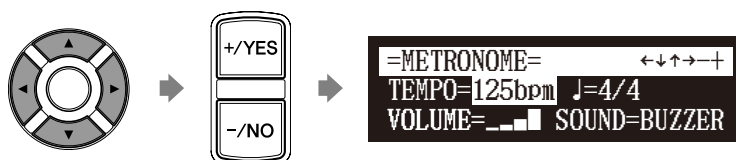
All metronome parameters are reset when the Disklavier is switched off.

1 Press [METRONOME] on the remote control.

The metronome setting screen appears.

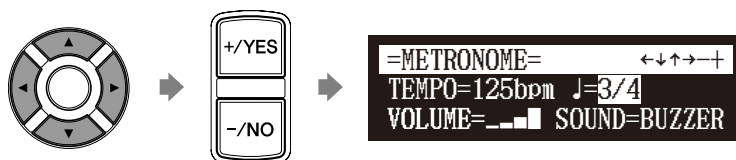


2 To change the tempo, move the cursor to the tempo parameter ("TEMPO") with the cursor buttons ([◀] [▶] [▲] [▼]), then press [+ / YES] and [- / NO].



The tempo can be adjusted in a range of 30 bpm to 400 bpm.

3 To change the beat, move the cursor to the beat parameter ("J") with the cursor buttons ([◀] [▶] [▲] [▼]), then press [+ / YES] and [- / NO].



The following beat settings are available: 1/4, 2/4, 3/4, 4/4, 5/4, 6/4, 7/4, 8/4, 9/4.

Note:

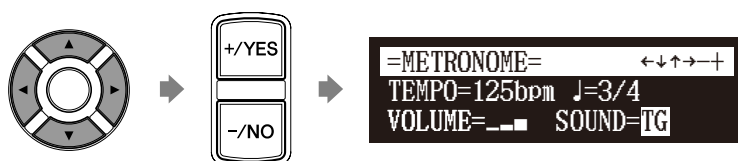
The tempo parameter displayed on the metronome setting screen indicates the number of beats in a minute, and one beat represents a quarter. When you play a song written in different measure unit from quarter note, change the setting (e.g. When playing a song in 3/2, set beat to 6/4).

- 4** To change the volume, move the cursor to the volume parameter (“VOLUME”) with the cursor buttons ([◀] [▶] [▲] [▼]), then press [+ / YES] and [- / NO].



The volume can be adjusted in 4 steps.

- 5** To change the sound, move the cursor to the sound parameter (“SOUND”) with the cursor buttons ([◀] [▶] [▲] [▼]), then press [+ / YES] and [- / NO].



The following sound settings are available: BUZZER, TG

Note:

The sound parameter does not appear when the quiet or headphone mode is activated on models equipped with the Silent Piano™ function. The metronome sound is fixed to “TG.”

- 6** Press [RECORD] in the metronome setting screen.

The metronome recording setting screen appears.

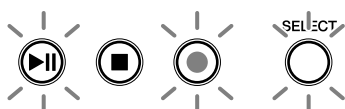


- 7** Press [PLAY]



Recording begins immediately.

[PLAY/PAUSE], [REC] and [SELECT] on the control unit flash simultaneously at the first beat of the metronome.



- 8** Start playing your song.

- 9** Press [STOP] when you finish playing your song.



The recorded song is loaded.

Recording the Left and Right Parts Separately

[RECORD] [FUNC.]

When recording an L/R song, the left- and right-hand parts can be recorded separately. Either part can be recorded first, and the pedals can be recorded with the first part.

While you record the second part, the first part will play back for monitoring.

If the left-hand or right-hand part is difficult to play at normal speed, the first part can be recorded at a slow tempo, and then the tempo changed afterwards to record the second part at the normal song speed.

This section describes how to record the left-hand part first then the right-hand part second.

1 Select a destination medium and album.

2 Press [RECORD].



3 Press [FUNC.] in the recording standby screen.

The part selection screen appears.



4 Make sure that the left-hand part is set to be recorded ("L=REC"), then press [PLAY].



This Disklavier is now ready for you to play the left-hand part.

5 Start playing your song.

Recording will start as soon as you touch a key.

6 Press [STOP] when you finish playing your song.



The L/R song with the left-hand part recorded is saved onto the selected album.

Next, record the right-hand part overwriting the left-hand part that you have just recorded.



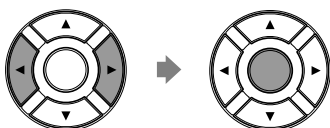
To select a medium and album, see Chapter 3 "Basic Song Playback – Selecting Medium and Their Contents" on page 18.



In the case you want to title your new song before recording, see Chapter 7 "Basic Recording – Titling a Song at the Start of Recording" on page 54, to rename the title after recording, see Chapter 9 "Media Management – Renaming a Song" on page 79.



If you want to record your L/R song using the metronome, see Chapter 8 "Advanced Recording – Recording with the Internal Metronome" on page 56.

7 Press [RECORD].**8** Press [◀] and [▶] to select the L/R song with the left-hand part that you have just recorded, then press [ENTER].**9** Press [FUNC.] in the recording standby screen.

The part selection screen appears.



The part that has already been recorded is displayed as "L=PLY."

10 Press [PART SELECT R] to record the right-hand part.

The part set to "REC" will be recorded.

11 Press [PLAY].

Playback of the left-hand recorded part starts immediately, so be sure that you are ready to play the right-hand part along with it.

12 Press [STOP] when you finish playing your song.

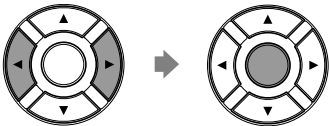
The following screen appears.



The following table gives a description of each of the options.

Option	Description
SAVE	The second part is saved with the first part under the current song number, overwriting the previously saved first part.
NEW	The second part is saved under a new song number. The first part is kept under the previous song number.
CANCEL	The second part is discarded. The first part is kept under the previous song number.

13 Press [◀] and [▶] to select an option, then press [ENTER].



The right-hand part is saved as indicated or canceled.

Recording the Left and Right Parts Together (Setting a Split Point)



You can also record an L/R song by playing the left- and right-hand parts simultaneously. In this case, a keyboard split point is set, and the notes played on the left-hand side of the split point are saved as the left-hand part, and notes played on the right-hand side of the split point are saved as the right-hand part.

1 Select a destination medium and album.

2 Press [RECORD].



3 Press [FUNC.] in the recording standby screen.

The part selection screen appears.



To select a medium or album, see Chapter 3 “Basic Song Playback – Selecting Medium and Their Contents” on page 18.



In the case you want to title your new song before recording, see Chapter 7 “Basic Recording – Titling a Song at the Start of Recording” on page 54, to rename the title after recording, see Chapter 9 “Media Management – Renaming a Song” on page 79.



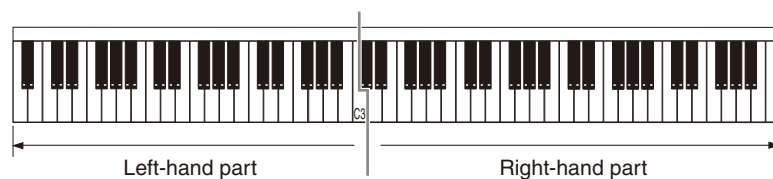
If you want to record your L/R song using the metronome, see Chapter 8 “Advanced Recording – Recording with the Internal Metronome” on page 56.

4 Press [PART SELECT R] to set both parts to record.

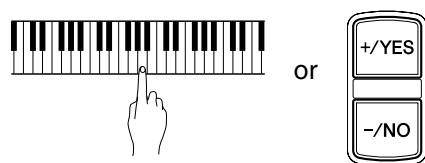
The split point setting screen appears.



The above display shows that the default keyboard split point is note C3, or middle C. In this case, note C3 and notes below are saved as the left-hand part and notes above C3 are saved as the right-hand part, as shown in the following figure.



5 To change the split point, press a key on the keyboard or [+ / YES] and [- / NO] to select a different key.



The split point can be set from note A-1 to note C7.

6 Press [PLAY].



The Disklavier is now ready for you to play.

7 Starts playing your song with the left- and right-hand parts and the pedal part simultaneously.

Recording will start as soon as you touch a key.

8 Press [STOP] when you finish playing your song.



The recorded song is loaded.

Re-Recording One Part

[RECORD] Select the L/R song [PART SELECT L] or [PART SELECT R]

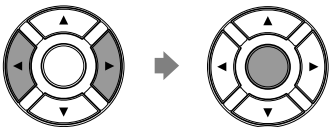
You can re-record the only one part left-hand or the right-hand of the existing L/R song.

1 Select a desired medium and album.

2 Press [RECORD].



3 Press [◀] and [▶] to select the L/R song that you want to re-record, then press [ENTER].



4 Press [PART SELECT L] or [PART SELECT R] to select the part to re-record.



The part set to “REC” will be re-recorded.

5 Press [PLAY].



Recording will start immediately, so be sure that you are ready to play the part.

6 Press [STOP] when you finish playing your song.

The following screen appears.

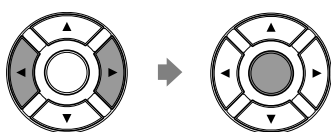


To select a medium and album, see Chapter 3 “Basic Song Playback – Selecting Medium and Their Contents” on page 18.

The following table gives a description of each of the options.

Option	Description
SAVE	The re-recorded part is saved with the other existing part under the current song number.
NEW	The re-recorded part is saved under a new song number. The existing parts are kept under the current song number.
CANCEL	The re-recorded part is discarded. The existing parts are kept under the current song number.

7 Press [◀] and [▶] to select an option, then press [ENTER].



The re-recorded part is saved as indicated or canceled.

Changing the Default Tempo

[RECORD] Select the song [FUNC.]x3

This function allows you to change the default tempo of a song and save the change. It should not be confused with the playback tempo function described in Chapter 4 “Advanced Song Playback – Changing the Playback Tempo” in which tempo changes are lost when the Disklavier is turned off.

The tempo of a song can be changed many times. This function can be used when recording a very complex song that is difficult to play at a fast tempo. First, record the song at a tempo you can manage, then change the tempo afterwards. For example, you could record a difficult left-hand part at a slow tempo, use this function to change the tempo, then record the right-hand part at the normal tempo.

If a song’s time format is minutes and seconds, tempo changes are specified as a percentage of the original tempo.

If a song’s time format is measures and beats, tempo changes are specified in beats per minute.

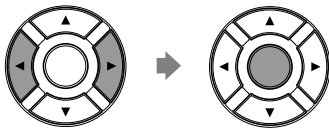
1 Select a desired medium and album.

2 Press [RECORD].

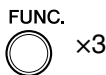


To select a medium or album, see Chapter 3 “Basic Song Playback – Selecting Medium and Their Contents” on page 18.

3 Press [◀] and [▶] to select the song in which you want to change the tempo, then press [ENTER].



4 Press [FUNC.] three times.



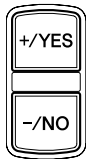
For **measures and beats**, the current song tempo (bpm) is shown.



For **minutes and seconds**, the current song tempo is shown as "000%."



5 Press [+ / YES] and [- / NO] to change the tempo.



[+ / YES] increases the tempo, and [- / NO] decreases the tempo.
For **measure and beats**, the tempo range is from 30 bpm to 400 bpm.
For **minutes and seconds**, the tempo range is from -75% to +242%.

6 Press [STOP] to save the tempo change.

The following screen appears.

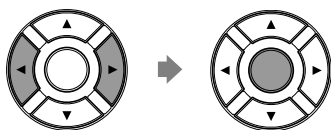


The following table gives a description of each of the options.

Option	Description
SAVE	The song is saved at its new tempo under the current song number.
NEW	The song is saved at its new tempo under a new song number. The original song is kept under the previous song number.
CANCEL	The song with a new tempo is discarded. The original song is kept under the previous song number.

Note:
You cannot change the beat setting on the prerecorded songs.
Note:
The sound parameter does not appear when the quiet or headphone mode is activated on models equipped with the Silent Piano™ function.

- 7** Press [◀] and [▶] to select an option, then press [ENTER].



To change the tempo again or to reset the original tempo, repeat steps 1 to 6.

Video Synchronized Recording

[SETUP] → "AudioI/O" → **Connect a camcorder and a DVD recorder**

By recording a song played on the Disklavier synchronized with the video recording, later on, you can enjoy piano playback with the video. First set up the camcorder, the DVD recorder, and the Disklavier, and then start recording by following the procedures below.



For details on video synchronized playback, see Chapter 4 "Advanced Song Playback – Video Synchronized Playback" on page 40.

■ Setting for Video Synchronized Recording

- 1** Press [SETUP] on the remote control.

The setup menu screen appears.



- 2** Select "AudioI/O" with the cursor buttons ([◀] [▶] [▲] [▼]), then press [ENTER].

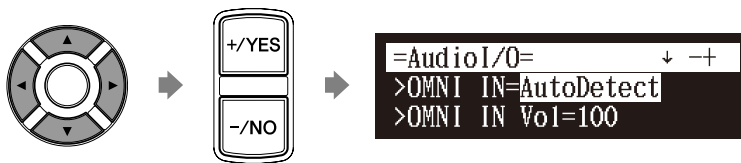


The audio I/O setting screen appears.

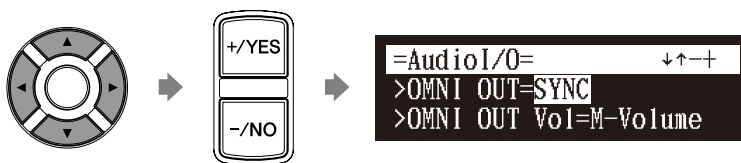


Advanced Recording

- 3** Select “OMNI IN” with the cursor buttons ([▲] [▼]), then press [+ / YES] and [- / NO] to change setting to “Auto Detect”.

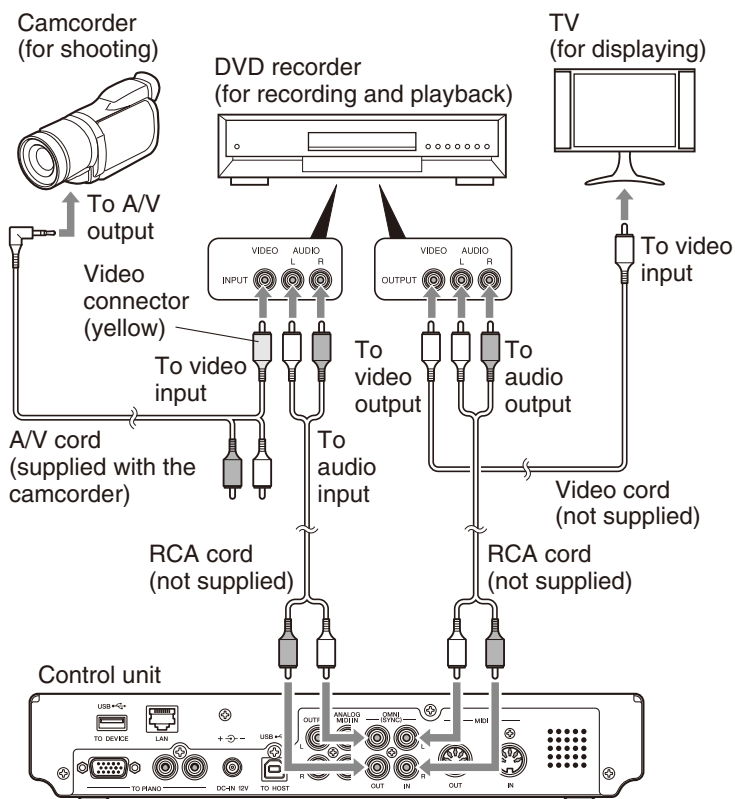


- 4** Select “OMNI OUT” with the cursor buttons ([▲] [▼]), then press [+ / YES] and [- / NO] to change setting to “SYNC”.



- 5** Press [ENTER] to complete the operation.

- 6** Connect a camcorder and a DVD recorder to the control unit.

**Note:**

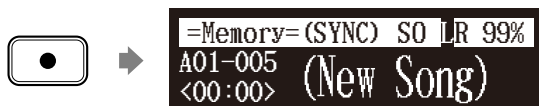
Confirm the shape of input/output connectors on the camcorder and the DVD recorder, and prepare the cables fit to them.

■ Starting Video Synchronized Recording

1 Select a destination medium and album.

2 Press [RECORD].

The video synchronized recording standby screen appears, and [RECORD] on the control unit lights red, and [PLAY/PAUSE] flashed in green.

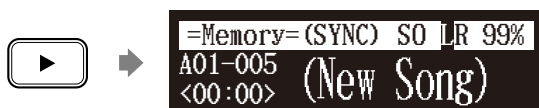


3 Set the camcorder to video shooting mode.

4 Select the video input on the DVD recorder which the camcorder is connected to, then start recording on the DVD recorder.

5 Press [PLAY].

[PLAY/PAUSE] stops flashing, and the counter starts to advance.



6 Wait for approximately ten seconds, and then start playing your song.

7 Press [STOP] when you finish playing your song.



8 Stop recording on the DVD recorder.



To select a medium and album, see Chapter 3 “Basic Song Playback – Selecting Medium and Their Contents” on page 18.

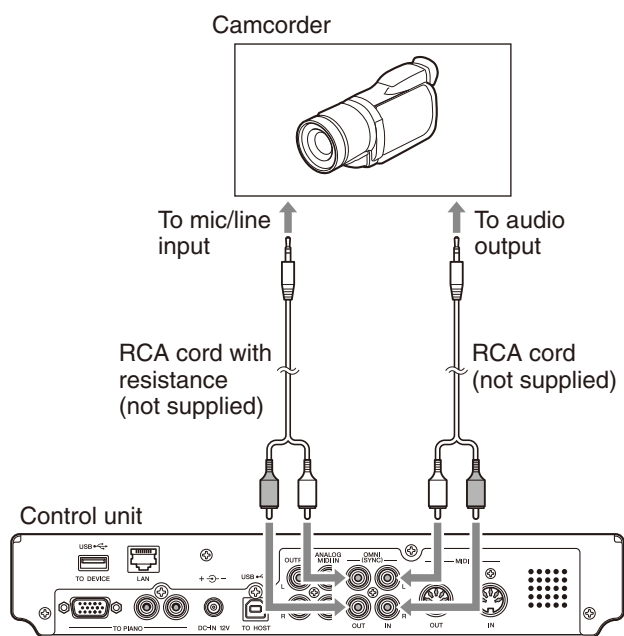
Note:

This step is necessary for synchronization of the song and the video playback, and should not be omitted.

■ Using the Camcorder only

If your camcorder has both mic input and audio output, you can perform video synchronized recording using the camcorder only.

1. Set the Disklavier following the procedures 1 to 5 on page 65.
2. Connect a camcorder to the control unit.



3. Select a destination medium and album.
4. Press [RECORD].
5. Start recording on the camcorder.
6. Press [PLAY].
7. Wait for approximately ten seconds, and then start playing your song.
8. Press [STOP] when you finish playing your song.
9. Stop recording on the camcorder.

CD Synchronized Recording

Insert an audio CD **[RECORD]**

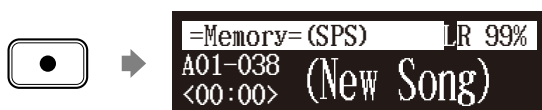
You can record a Disklavier piano performance along with the playback of songs on commercial CDs.

1 Select a destination medium and album, then song in the selected album.

2 Insert an audio CD and select the song that you want to synchronize with.

3 Press **[RECORD]**.

The SPS recording standby screen appears, and **[RECORD]** on the control unit lights red, and **[PLAY/PAUSE]** flashes in green.



4 Select the desired part of a song, then press **[PLAY]** to start synchronizing.



Recording begins with the CD playback.

5 Start playing the Disklavier along with the CD playback.

6 Press **[STOP]** to stop recording.



The recorded song is loaded.

Note:

The Disklavier recognizes the destination album by selecting the song in it. Note that the selected song is not overwritten by this procedure.



To select a medium and album, see Chapter 3 “Basic Song Playback – Selecting Medium and Their Contents” on page 18.



To play back the performance recorded with this feature, see Chapter 4 “Advanced Song Playback – Adding Disklavier Accompaniment to Commercial CD Songs (PianoSmart™ Playback)” on page 41.