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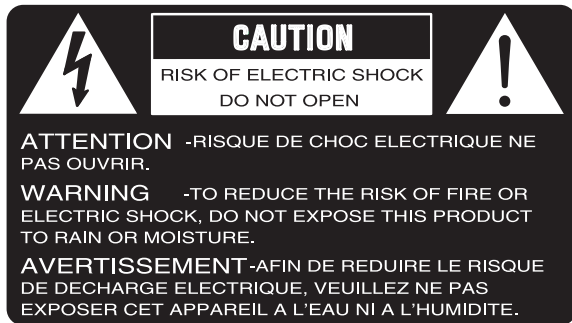
SEE BOTTOM OF ENCLOSURE OR LOWER FRONT PANEL FOR GRAPHIC SYMBOL MARKINGS

The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operating and maintainance (servicing) instructions in the literature accompanying the product.
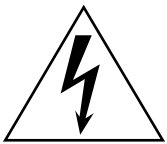
The lightning flash with arrowhead symbol within the equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electrical shock.

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.
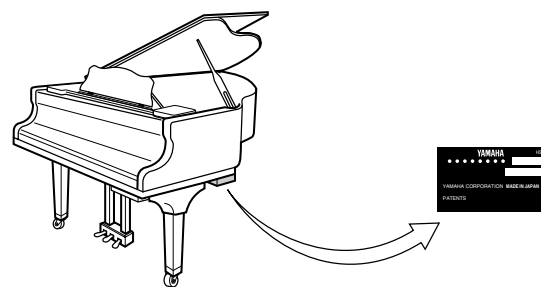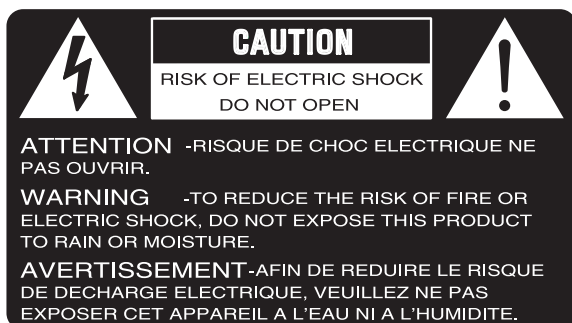

Model _____

Serial No. _____

Purchase Date _____

92-469 ①

SECTION DE MESSAGE SPÉCIAL

INSCRIPTIONS DE SÉCURITÉ DU PRODUIT: Les produits électroniques Yamaha peuvent comporter des étiquettes semblables aux représentations graphiques indiquées ci-dessous ou fac-similés moulés/estampés de ces représentations graphiques sur l'encoffrement. L'explication de ces représentations graphiques apparaît à cette page. Veuillez respecter toutes les précautions indiquées à cette page et celles indiquées dans la section des directives de sécurité.

> ⚡ **CAUTION**
> RISK OF ELECTRIC SHOCK
> DO NOT OPEN ⚠
>
> **ATTENTION** -RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR.
> **WARNING** -TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.
> **AVERTISSEMENT**-AFIN DE REDUIRE LE RISQUE DE DECHARGE ELECTRIQUE, VEUILLEZ NE PAS EXPOSER CET APPAREIL A L'EAU NI A L'HUMIDITE.

VOIR SOUS L'ENCOFFREMENT OU EN BAS DU PANNEAU FRONTAL EN CE QUI CONCERNE LES INSCRIPTIONS DE SYMBOLE GRAPHIQUES

⚠ Le point d'exclamation placé dans un triangle équilatéral est destiné à alerter l'utilisateur de la présence de directives importantes sur l'utilisation et l'entretien (dépannage) dans la documentation qui accompagne le produit.
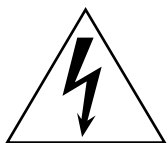
⚡ L'éclair de foudre avec le symbole en pointe de flèche dans un triangle équilatéral est destiné à alerter l'utilisateur de la présence d'une "tension dangereuse" non isolée circulant dans l'encoffrement du produit et qui peut avoir une puissance suffisante pour constituer un risque d'électrocution.

NOTIFICATION IMPORTANTE: Tous les produits électroniques Yamaha sont vérifiés et approuvés par un laboratoire de contrôle de sécurité indépendant pour que vous puissiez être sûr que quand il est correctement installé et utilisé de façon normale et habituelle, tous les risques prévisibles ont été éliminés. NE modifiez PAS cet appareil ni déléguez d'autres personnes à le faire à moins d'être autorisé spécifiquement par Yamaha à le faire. Les performances de ce produit et/ou les normes de sécurité peuvent être diminuées. Les réclamations soumises sous les termes de la garantie exprimée peuvent être refusées si l'appareil est ou a été modifié. Des garanties implicites peuvent également être affectées.

CARACTÉRISTIQUES SUJETTES À MODIFICATION: On pense que les informations contenues dans ce manuel sont correctes au moment de l'impression. Cependant, Yamaha se réserve le droit de changer ou de modifier toute caractéristique sans avis préalable ni obligation de mettre à jour les appareils existants.

PUBLICATION SUR L'ENVIRONNEMENT: Yamaha s'efforce de produire des appareils qui réunissent à la fois la sécurité à utilisateur et constituent un environnement convivial. Nous croyons sincèrement que nos produits et les méthodes de production ne produisaient, atteignent ces buts. En accord avec la lettre et l'esprit de la loi, nous voulons que vous vous rendiez compte de ce qui suit :

Notification relative à la batterie: Ce produit PEUT contenir une petite batterie non-rechargeable qui (quand ceci est applicable) est soudée en place. La durée moyenne de ce type de batterie est approximativement de cinq ans. Quand le remplacement devient nécessaire, prenez contact avec un technicien qualifié pour exécuter le remplacement.

Avertissement: N'essayez pas de recharger, démonter ou incinérer ce type de batterie. Maintenez toutes les batteries hors de la portée des enfants. Mettez les batteries usées au rebut et promptement conformément aux obligations imposées par les lois applicables. Remarque: Dans certains secteurs, il est exigé par la loi que le préposé à l'entretien renvoie les pièces défectueuses. Cependant, vous avez l'option que le préposé à l'entretien mette ces pièces au rebut pour vous.

Notification de mise au rebut: Si ce produit était endommagé au delà de la possibilité du dépannage, ou pour quelque raison si sa durée de vie utile est considérée comme arrivant à terme, veuillez respecter la réglementations d'état, locale et fédérale et qui est associée à la mise au rebut des produits qui contiennent du plomb, des batteries, des plastiques, etc.

NOTIFICATION: Les frais administratifs encourus en raison d'un manque de connaissance concernant la façon dont une fonction ou des effets réagissent (quand l'appareil est utilisé comme conçu) ne sont pas couverts par la garantie du constructeur, et incombent pour cette raison la responsabilité des propriétaires. Veuillez étudier attentivement ce manuel et consultez votre distributeur avant de demander un dépannage.

EMPLACEMENT DE LA PLAQUE SIGNALÉTIQUE: La représentation graphique ci-dessous indique l'emplacement de la plaque signalétique. Le numéro de modèle, le numéro de série, les conditions d'alimentation électrique, etc., sont mentionnées sur cette plaque. Vous devriez enregistrer le numéro de modèle, le numéro de série et la date de l'achat dans les espaces fournis ci-dessous et conserver ce manuel comme relevé permanent de votre achat.
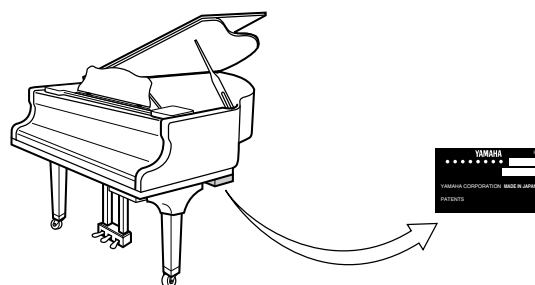
Modèle _____

Numéro de série _____

Date d'achat _____

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, 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 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.

17. **WARNING** — To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

18. Care should be taken that objects do not fall and liquids are not spilled into the enclosure through any openings that may exist.

19. 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.

20. Some Yamaha products may have benches and/or accessory mounting fixtures that are either supplied as a part or 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.

21. This product shall be connected to a MAINS socket outlet with a protective earthing connection.

22. 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.

23. 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 2A or less of totals. Do not connect other products except speakers.

– Consult Yamaha service technician when using the outlets outside the purchased area.

92-469-DK ② **PLEASE KEEP THIS MANUAL**

INSTRUCTIONS DE SÉCURITÉ IMPORTANTES

AVERTISSEMENT — Lors de l'utilisation de n'importe quel appareil électrique ou électronique, les précautions fondamentales devraient toujours être suivies. Ces précautions comprennent, mais ne sont pas limitées à, ce qui suit:

1. Lisez ces directives.

2. Conservez ces directives.

3. Observez tous les avertissements.

4. Suivez toutes les directives.

5. N'utilisez pas cet appareil près de l'eau.

6. Nettoyez seulement avec un tissu sec.

7. Ne bloquez aucune des ouvertures de ventilation. Installez conformément aux directives du constructeur.

8. N'installez près d'aucune source de chaleur telle que des radiateurs, des registres de chaleur, des appareils de chauffage ou d'autres appareils (amplificateurs y compris) qui produisent de la chaleur.

9. N'asservissez pas l'objectif de sécurité de la prise de type polarisée ou de mise à la terre. Une prise polarisée a deux lames avec une plus large que l'autre. Une prise de type à mise à la terre a deux lames et une troisième lame de mise à la terre. La lame large ou la troisième lame est prévue pour votre sécurité. Si la prise fournie ne s'ajuste pas dans votre prise secteur, consultez un électricien pour le remplacement de l'ancien modèle de prise.

10. Protégez le cordon d'alimentation de secteur afin que personne ne puisse marcher ni le pincer en particulier les prises, les prises de courant et la position où il quitte de l'appareil.

11. Utilisez seulement les équipements ou accessoires indiqués par le constructeur.

12. Utilisez seulement avec le chariot, le support, le trépied, la platine de fixation ou la table indiquée par le constructeur, ou vendue avec l'appareil. Quand un chariot est utilisé, faites attention en déplaçant la combinaison chariot/appareil pour éviter de se blesser en renversant l'appareil.

13. Débranchez cet appareil pendant les orages et la foudre ou s'il est inutilisé pendant de longues périodes.

14. Confiez toutes les opérations d'entretien au personnel de service qualifié. L'entretien est exigé quand l'appareil a été endommagé de quelque façon que ce soit, comme par exemple l'endommagement du cordon ou de la prise d'alimentation secteur, quand du liquide a été renversé ou que des objets sont tombés dans l'appareil, l'appareil a été exposé à la pluie ou à l'humidité, ne fonctionne pas normalement, est tombé par terre.

15. Ce produit ne doit pas être exposé à un suintement ou des éclaboussures et aucun objet rempli de liquide, tels que des vases, ne doit être mis sur l'appareil.

16. Ne placez ce produit ni aucun autre objet sur le cordon d'alimentation secteur ou ne le placez pas dans une position où n'importe qui pourrait marcher dessus, trébucher dedans ou faire rouler n'importe quoi sur les cordons d'alimentation en aucune manière. L'utilisation d'un cordon prolongateur n'est pas recommandée ! Si vous devez utiliser un cordon prolongateur, la taille minimum du calibre de fil du cordon pour un cordon de 25 pouces (ou moins) est de 18 du calibrage américain normalisé. REMARQUE: Plus le numéro du calibrage américain normalisé est petit, plus la capacité de gestion de l'intensité est grande. Pour de plus longs cordons prolongateurs, consultez un électricien local.

17. **AVERTISSEMENT** — Pour réduire les risques d'incendie ou de décharge électrique, n'exposez pas cet appareil à la pluie ou à l'humidité.

18. Un soin tout particulier devrait être pris pour qu'aucun objet ne tombe et que des liquides ne soient renversés dans l'encoffrement par aucune des ouvertures qui peuvent exister.

19. Ce produit, individuel ou en combinaison avec un amplificateur et des écouteurs ou le ou les haut-parleurs, risque de produire des niveaux sonores qui pourraient causer une perte d'auditive permanente. NE PAS mettre en service pendant une longue période à un niveau de volume élevé ou à un niveau qui est inconfortable. Si vous éprouvez n'importe quelle sorte de perte auditive ou de sonnerie dans les oreilles, vous devriez consulter un audiologiste. IMPORTANT : Plus le son est fort, plus la période de temps avant que les dégâts se produisent est courte.

20. Certains produits Yamaha peuvent avoir des supports et/ou des accessoires d'installation complémentaires qui sont fournis comme partie du produit ou en tant qu'accessoires optionnels. Certains de ces articles sont conçus pour être montés ou installés par le distributeur. Veuillez vous assurer que les supports sont stables et que tous les accessoires optionnels (quand ceci est applicable) sont bien fixés AVANT l'utilisation. Les supports fournis par Yamaha sont conçus pour un positionnement seulement. Aucune autre utilisation n'est recommandée.

21. Ce produit doit être connecté à une prise de sortie secteur munie d'une connexion protectrice par la mise à la terre.

22. Ce produit est muni d'un interrupteur d'alimentation permettant de couper l'alimentation de tout le système. L'interrupteur d'alimentation est installé sur le bloc d'alimentation tout près de l'entrée du cordon d'alimentation secteur. Notez que l'interrupteur d'alimentation sur le contrôleur n'arrête tout le système.

23. Assurez-vous que la prise du cordon d'alimentation électrique du bloc d'alimentation peut facilement être débranchée de la prise de sortie secteur comme mesure de précaution.

Batterie
– Risque d'explosion si la batterie n'est pas remplacée comme il faut. Remplacez seulement par le même type de batterie.

Prises de sortie pour des haut-parleurs
– Connectez des haut-parleurs de 2A ou moins au total. Ne connectez aucun autre produit excepté des haut-parleurs.

– Consultez le technicien de service Yamaha quand des prises sont utilisées en dehors du secteur d'achet.

92-469-DK ② **VEUILLEZ CONSERVER CE MANUEL**
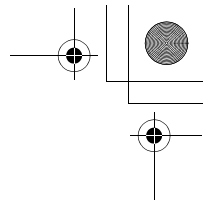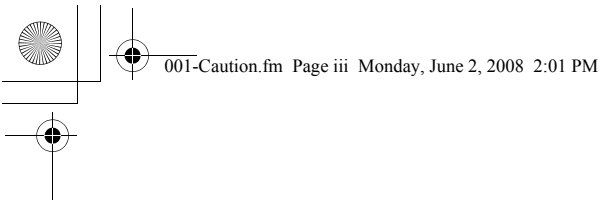
IMPORTANT NOTICE FOR THE UNITED KINGDOM
Apply for Grand Pianos
Connecting the Plug and Cord

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.

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.

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: GaAIAs
* 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.

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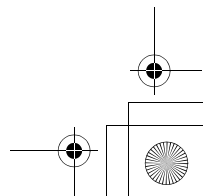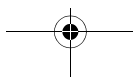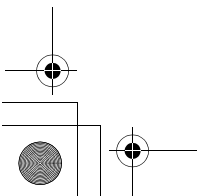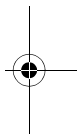hazardous radiation exposure.

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.

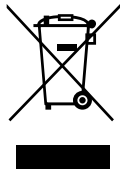**Information for Users on Collection and Disposal of Old Equipment and used Batteries**

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
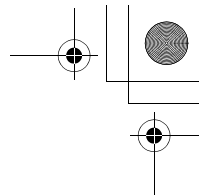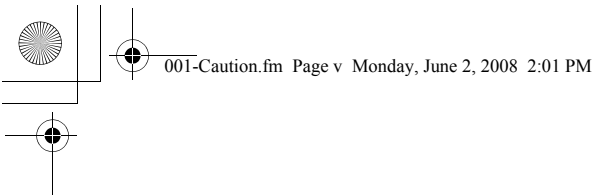
COMPLIANCE INFORMATION STATEMENT
(DECLARATION OF CONFORMITY PROCEDURE)

Responsible Party	: Yamaha Corporation of America
Address	: 6600 Orangethorpe Avenue, Buena Park, CA 90620 USA
Telephone	: 1-714-522-9011
Fax	: 1-714-522-9301
Type of Equipment	: Player Piano
Model Name	: Disklavier E3

This device complies with Part 15 of the FCC Rules.
Operation is subjected to the following conditions;
1) this device may not cause harmful interference, and
2) this device must accept any interference received including interference that may cause undesigned operation.
See user manual instructions if interference to radio reception is suspected.

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

FCC INFORMATION (U.S.A.)

1. IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!
   This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.
2. IMPORTANT: When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.
3. NOTE: This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices. Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:
   Relocate either this product or the device that is being affected by the interference.
   Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s.
   In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to coaxial type cable.
   If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Corporation of America, Electronic Service Division, 6600 Orangethorpe Ave, Buena Park, CA 90620

The above statements apply ONLY to those products distributed by Yamaha Corporation of America or its subsidiaries.
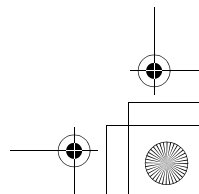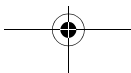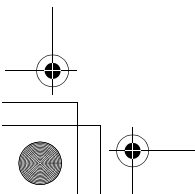
Mounting the Control Unit to the Grand Piano
Installation du boîtier de commande sur un piano à queue

(1)

(2)

(3)

Leave 5 mm of the shank
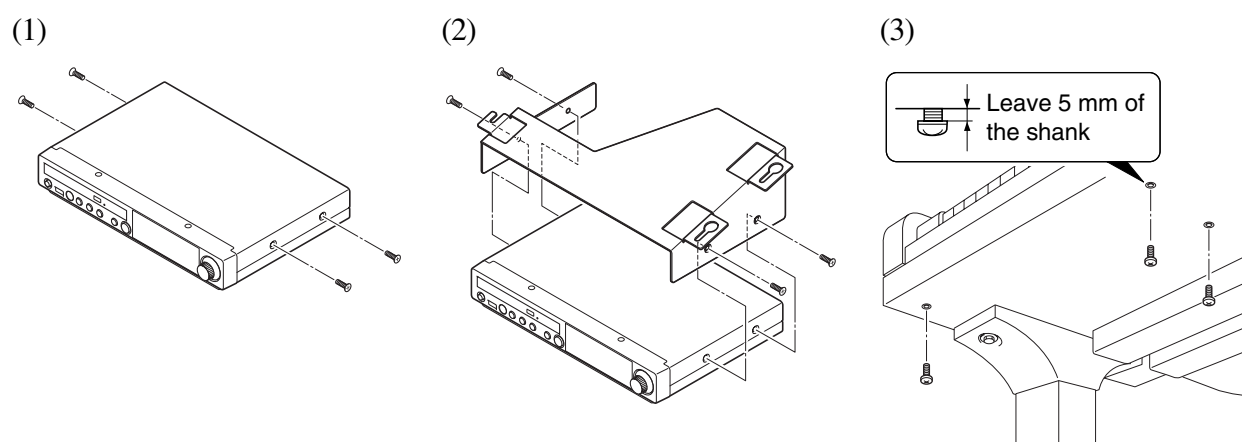
(1) Remove the four screws from the sides of the control unit.

(2) Place the metal suspension bracket, included with the Disklavier grand model, over the control unit, then secure the metal suspension bracket to the control unit using the same screws.

(3) Insert the three restraining screws (attached) 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.

Notes:
1) Handle the metal suspension bracket and the control unit carefully to avoid scratches.
2) Screws;
   Restraining screws:
   Bind head (5 × 12) × 3
   BWH screws:
   Flat head (4 × 10) × 4
3) When mounted correctly, the control unit is angled approximately 18° above horizontal.

(1) Retirer les quatre vis sur les côtés du boîtier de commande.

(2) Placer le support métallique (fourni avec le Disklavier pour piano à queue) sur le boîtier de commande, puis fixer le support métallique au boîtier de commande en utilisant les quatre vis à tête conique.

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

Remarques:
1) Manipuler soigneusement le support métallique et le boîtier de commande pour éviter les rayures.
2) Vis :
   Vis de retenue (5 × 12) 3 Vis BWH (4 × 4) 4
3) Lorsqu'il est monté correctement, le boîtier de commande est incliné d'environ 18° sur l'horizontale.
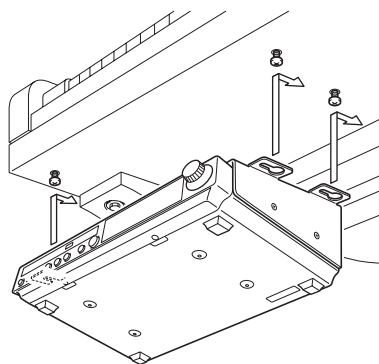
(4) (5)   (6)
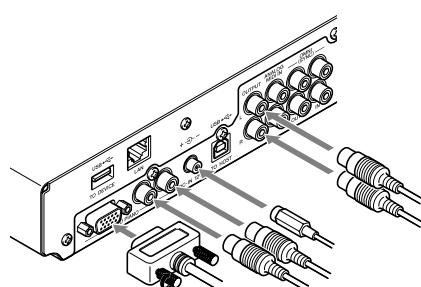
(4) Fit the "slots" of the metal suspension bracket containing the control unit to the screws mentioned in step (3).

(5) 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.

(6) Insert the coaxial cable into the TO PIANO connector on the rear panel of the control unit, then securely tighten the two screws attached to the connector.

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

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

(6) Raccorder le câble de commande au connecteur D-SUB situé au dos du boîtier de commande, puis serrer correctement les deux vis du connecteur. Prendre soin de vérifier l'orientation du connecteur D-SUB en raccordant le câble.
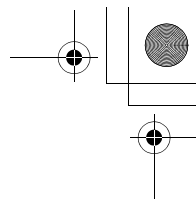
disklavier™

E3 Series

Operation Manual
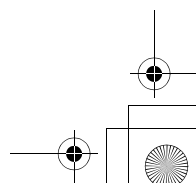
Welcome to the Yamaha Disklavier™!

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 International Sales 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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- Disklavier E3 software, Copyright © 2008 YAMAHA CORPORATION.
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- 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.

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.

Please keep this manual for future reference.

Table of Contents

English

Chapter 1 **Introduction**

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 20 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.

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.

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.

Items supplied with the Disklavier

Check that the following items are supplied with your Disklavier:

- 1 Control unit
- 1 Control unit suspension bracket
- 2 Monitor speakers*
- 1 Monitor speaker installation kit*
- 2 Speaker cords*
- 1 Remote control
- 2 Batteries for remote control
- 2 Sample PianoSoft CD software
- 1 Quick reference
- 1 Operation manual

* *Only for models supplied with the monitor speakers*

English

Introduction

Names of Parts and Their Functions

■ Control Unit — Front Panel
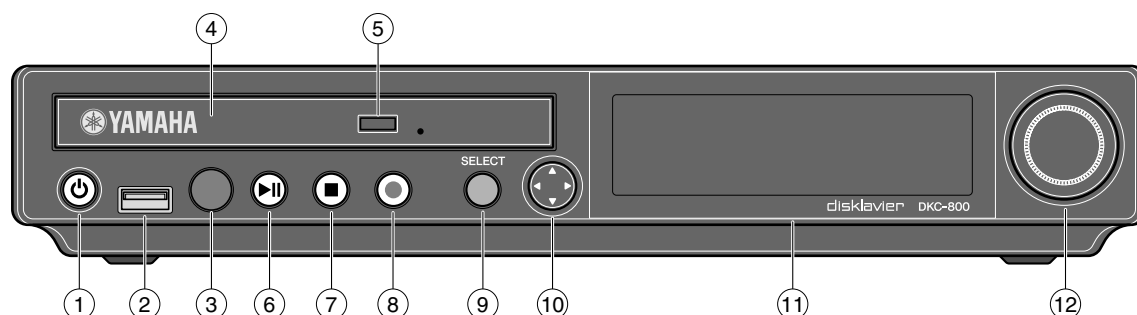
① **[ON/OFF] button**

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**

Used to start and pause playback.

⑦ **[STOP] button**

Used to stop playback and recording.

⑧ **[RECORD] button**

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.
[ENTER]: Used to execute the selection.

⑪ **Display**

Shows various information.

⑫ **Dial**

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

English

■ Control Unit — Rear Panel
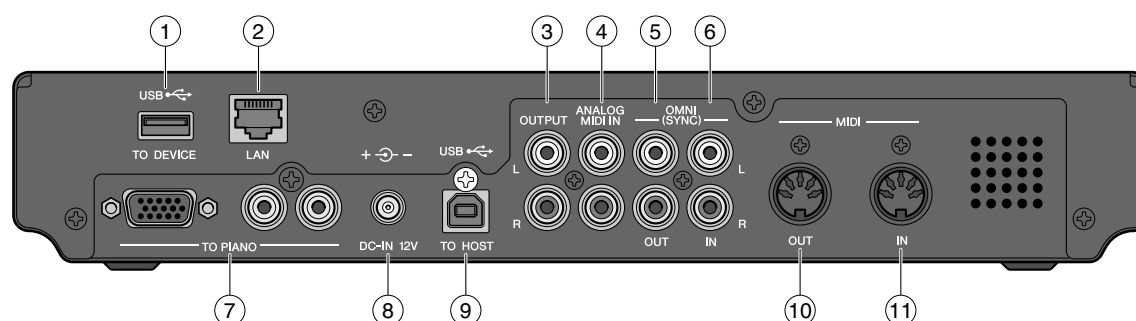
① **USB TO DEVICE port**
Used to connect a USB flash memory, etc.

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) IN jacks**
Used to connect the output of the audio equipment.

⑥ **OMNI (SYNC) OUT jacks**
Used to connect the input of the audio equipment.

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**
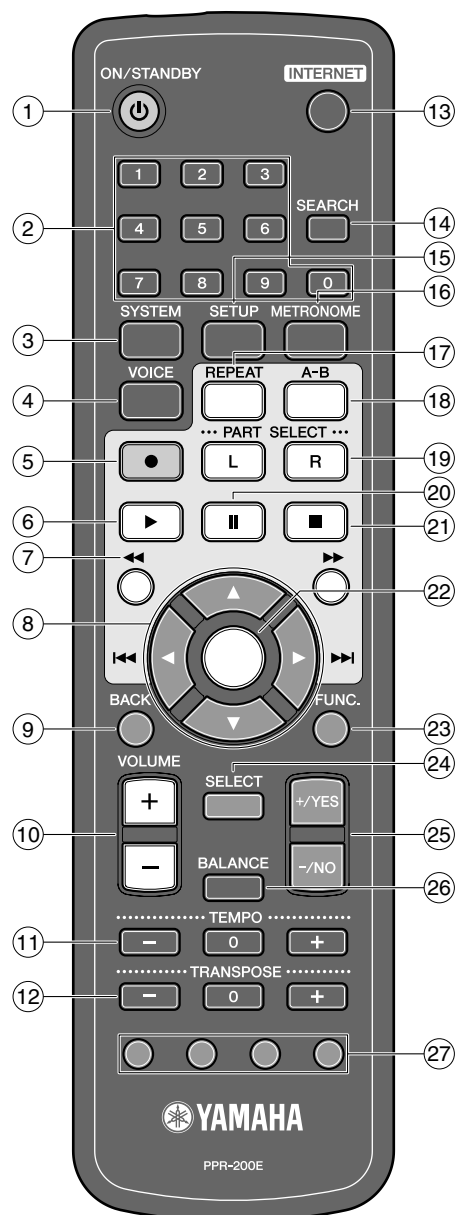
① **[ON/STANDBY] button**
Turns on the Disklavier or puts it in the standby mode.

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**
Cancels the selection, and returns to the previous screen.

⑩　**[VOLUME] buttons**
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　**[TRANSPOSE] 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**
Used to pause playback.

㉑　**[STOP] button**
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 options and parameters.

㉖　**[BALANCE] button**
Used to adjust the TG, audio and voice balance.

㉗　**Color buttons**
For future use.

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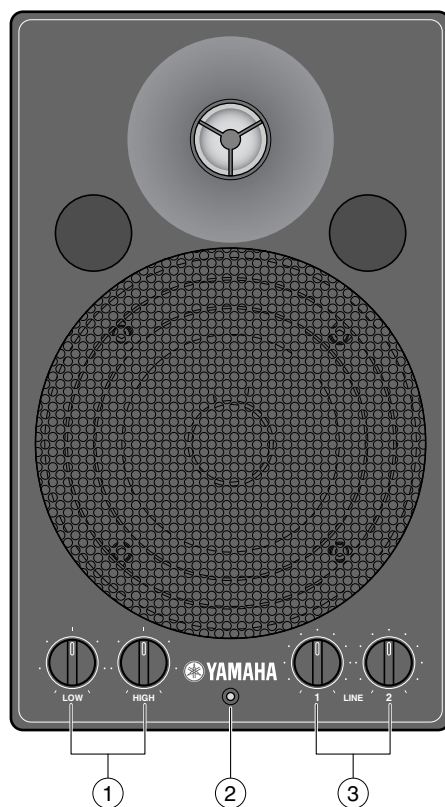
① **LOW/HIGH volume controls**

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 LINE1 volume completely, and turn up the LINE2 volume at the three o'clock position.

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 15.

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.

L/R Song

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

Memory Disk

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

MIDI

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

PianoSoft

The PianoSoft Disk Collection is a library of prerecorded song disks made by Yamaha 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.

English

Chapter 2

Getting Started

Connecting the Control Unit

Make sure that the coaxial cable extending from the piano is connected to the TO PIANO connector on the rear panel of the control unit.

It is recommended to mount the control unit to the underside of the bass side key bed.

Note: The coaxial cable should be connected to the control unit when the Disklavier is installed. If, however, it is not, carefully connect them to the control unit's TO PIANO connector on the rear panel.

Connecting the AC Power Cable

1 **Connect the 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.**
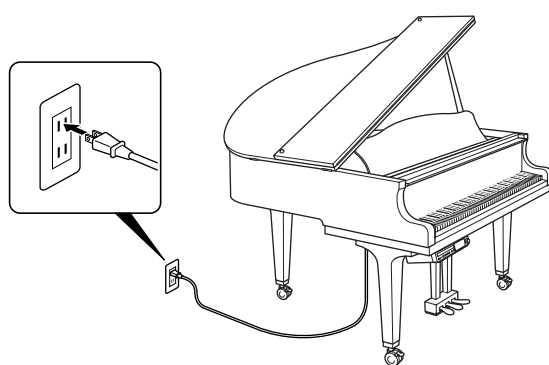
Important:
Make sure that the voltage of the AC wall outlet matches that marked on the Disklavier's Serial No. plate.

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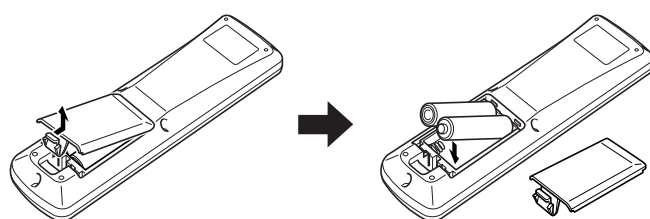
A diagram inside the battery compartment shows which way the batteries should be installed. Make sure you insert them correctly.

■ 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.

- Always replace both batteries.

- 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.

Important:

Be sure to read the section on Handling Batteries on page iii of "Important" 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.

Approx. 5 m (16 ft.)

30˚

30˚

English
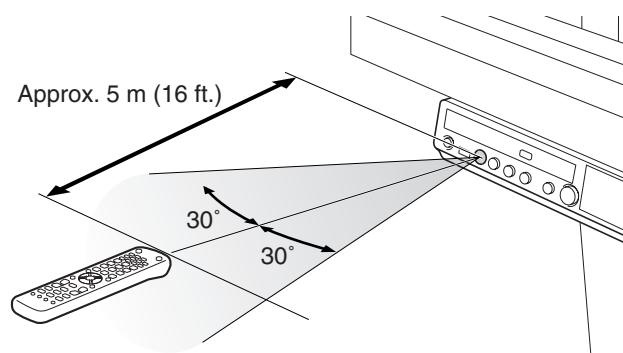
Getting Started

Turning On the Disklavier

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

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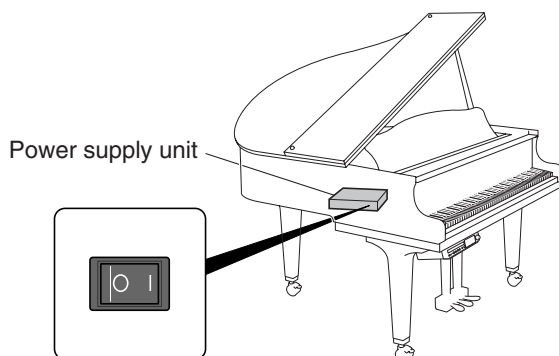
2 **Press [ON/OFF] on the control unit.**

ON/OFF

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.

YAMAHA
disklavier

In a lot of seconds, the loading screen will appear, and latest selected song will be loaded.

The song playback screen appears.

PLEASE WAIT

=Memory=   LR S0 V+00
A01-001
<00:00> Openig 1

Your Disklavier is now ready for use.

Setting the Internal Calendar

[SYSTEM]

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.

Setting the correct time is also important for engaging timer-controlled programs (see Chapter 4 "Advanced Song Playback – Using Timer Play" on page 34).

Time is displayed in 24-hour format.

English

■ Calendar

1 **Press [SYSTEM].**

The system menu screen appears.

SYSTEM

➡

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

2 **Select "Clock Adj." with the cursor buttons ([◄] [►] [▲] [▼]), then press [ENTER].**

➡

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

The current date and time appear.

➡

```
=Clock Adjust=     ENT
 2007/10/17 13:54:30
```

3 **Press [ENTER].**

➡

```
=Clock Adjust=  ←→-+ENT
 2007/10/17 13:54:30
```
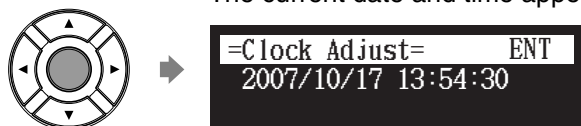
The time setup screen appears with the cursor flashing on the hours display.

Getting Started

4 **Select year, month, date, hours, minutes, and seconds with the cursor buttons ([◄] [►]), then press [+/YES] and [–/NO] to set a value.**

```
=Clock Adjust=  ←→-+ENT
2007/10/17 14:54:30
```
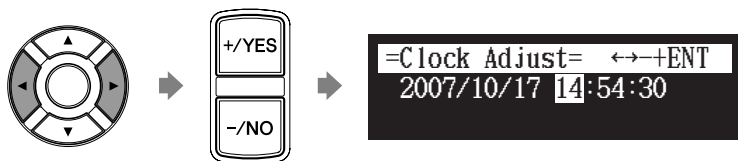
5 **Press [ENTER].**
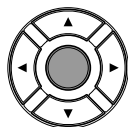
The date and time are stored in the internal calendar, and the display returns to the current time screen.

Press [BACK] to return to the system menu screen, then proceed to the time zone setting.

■ Time Zone

1 **Select "TimeZone" with the cursor buttons ([◄] [►] [▲] [▼]), then press [ENTER].**

```
=SYTEM MENU=     (1/2)→
*Clock Adj. *TimeZone
*Backup     *Restore
```
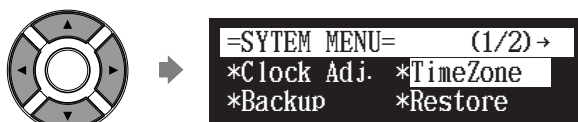
The time zone setup screen appears.

```
=Time Zone=     ↑↓-+ENT
Area=America
City=Los_Angeles
```
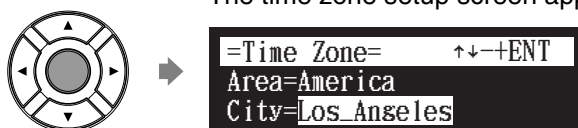
2 **Press [+/YES] and [–/NO] to change the time zone.**

```
=Time Zone=      ↑↓−+ENT
Area=America
City=New_York
```
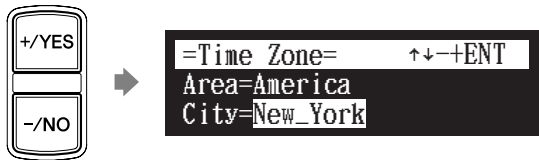
Examples of Time Zone

The chart below shows the correspondence between the time zone setting on the Disklavier and actual time zone used in the U.S. and Canada.

Setting	Actual Time Zone
GMT-10	Hawaii-Aleutian Standard Time
GMT-9	Alaska Standard Time (AKST)
GMT-8	Alaska Daylight Time (AKDT)
	Pacific Standard Time (PST)
GMT-7	Pacific Daylight Time (PDT)
	Mountain Standard Time (MST)
GMT-6	Mountain Daylight Time (MDT)
	Central Standard Time (CST)
GMT-5	Central Daylight Time (CDT)
	Eastern Standard Time (EST)
GMT-4	Eastern Daylight Time (EDT)

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

English

3 **Press [ENTER].**
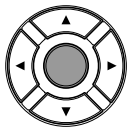
The time zone is set, and the display returns to the system menu.

Turning Off the Disklavier (Standby Mode)

Press [ON/STANDBY] on the remote control.

ON/STANDBY

See you again

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

Getting Started

Shutting Down the Disklavier

Press [ON/OFF] on the control unit.

ON/OFF

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

Note: When turning the Disklavier back on, be sure to wait for 5 seconds before doing so.

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 ISO 9660.

• 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: Yamaha does not assure the operation of commercially available USB flash memories or USB hard disk drives. For a list of compatible products, please visit: *www.yamaha.com/disklavier*.

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 and overwrite recording. 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.**

CD

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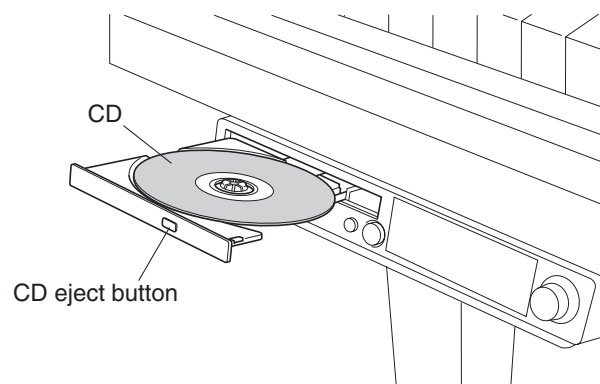
2 **Place a CD on the tray, and then close the tray.**

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*.

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 area 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 SmartPiano·Soft 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.

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

Selecting Medium and Their Contents

[SELECT]

1 **Press [SELECT].**

SELECT ➡ =MEDIA SELECT=   ↓→
Memory   CD

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

2 **Select a desired medium with the cursor buttons ([◄] [►]).**
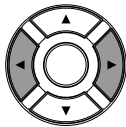
The following media are available:

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	FromToPC folder in the internal flash memory. See Chapter 8 "Media Management – Copying Song File from a Personal Computer to the Disklavier" on page 76.

3 **Press [ENTER] or [▼].**

The album selection screen appears.

or ➡ =ALBUM SELECT=   ↓↑→
01:Piano Classics

English

17

4 **Select a desired album with the cursor buttons ([◄] [►]).**

=ALBUM SELECT=   ↓↑→
01:Piano Classics

Album number   *Album title*
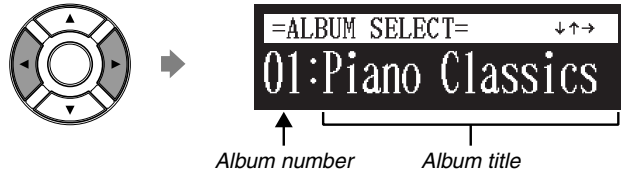
To return to the media selection screen, press [▲].

Note: You can also select albums directly using the number keypad on the remote control. See "Selecting Albums/Songs with the Number Keypad" on page 20.

5 **Press [ENTER] or [▼].**

or

The song selection screen appears.

=SONG SELECT=   ↑→
001:Get Ready
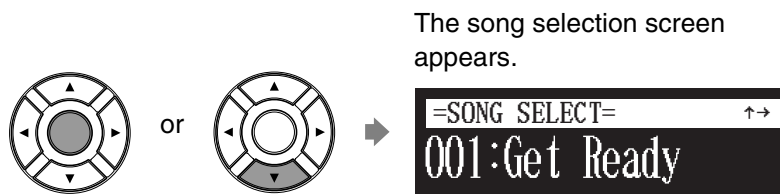
6 **Select a desired song with the cursor buttons ([◄] [►]).**

=SONG SELECT=   ↑→
001:Get Ready

Song number   *Song title*

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

Note: You can also select songs directly using the number keypad on the remote control. See "Selecting Albums/Songs with the Number Keypad" on page 20.
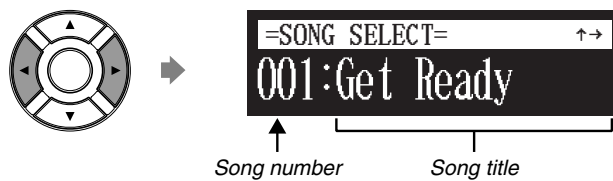
7 **Press [ENTER].**

The selected song is loaded.

■ **Song Playback Screen**

Here are a few things that you will often see during playback.
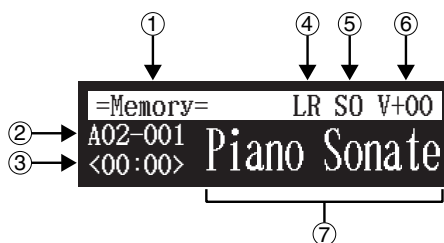
① **Media**

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
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	Standard MIDI File format 0
S1	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.

Selecting Albums/Songs with the Number Keypad

Album 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 number 5, simply press [5], then [ENTER].

=ALBUM SELECT= 0-9/ENT
05:

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

=ALBUM SELECT= 0-9/ENT
36:

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

Starting Playback

Song Playback Screen **[PLAY]**

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

Control unit   or   *Remote control*

=Memory=   LR SO V+00
A02-001 Piano Sonate
<00:01>

The [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.

Stopping Playback

During Playback **[STOP]**

Press [STOP].

⏹ or ⏹

Control unit   *Remote control*
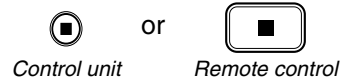
Playback stops, and the song returns to the beginning.

The [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.

⏯ or ⏸

Control unit   *Remote control*
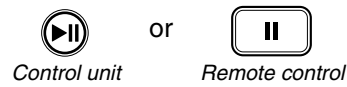
Playback pauses.

The [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.

⏯ or ▶

Control unit   *Remote control*

English
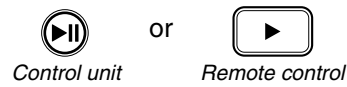
Fast Preview & Review

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.**
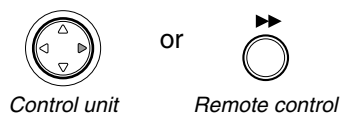
or

Control unit   *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.**
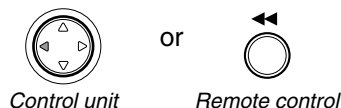
or

Control unit   *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.

English

■ Fast Forward

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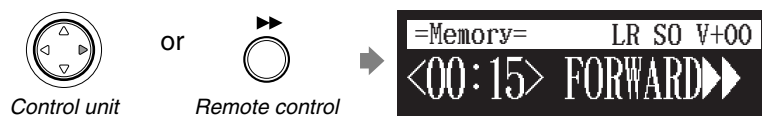
or ►►

Control unit *Remote control*

=Memory=   LR SO V+00
⟨00:15⟩ FORWARD►►

The [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 stop or pause mode, hold [◄] on the control unit or press [REVERSE] on the remote control.**
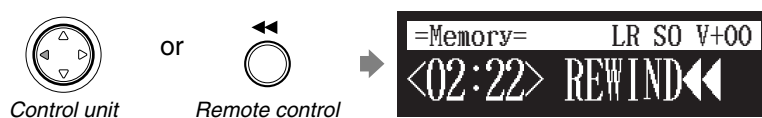
or ◄◄

Control unit *Remote control*

=Memory=   LR SO V+00
⟨02:22⟩ REWIND◄◄

The [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].

SEARCH

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

The song search screen appears with the counter flashing.

=Memory=   0-9/SEARCH
A02-001
<00:00> Piano Sonate

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

1 2 3
4 5 6
7 8 9 0

➡
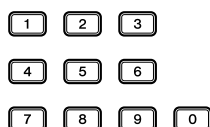
=Memory=   0-9/SEARCH
A02-001
<00:12> Piano Sonate

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

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

3 Press [SEARCH] again.

SEARCH

The position of the song goes to the specified point, then will be paused.

Listening to the DisklavierRadio

Media Selection Screen **D-Radio**

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

English

1 **Select the DisklavierRadio in the media selection.**

The channel selection screen appears.

=RADIO SELECT=   ↓↑→
01:Introduction Ch

2 **Press [◄] or [►] or [+/YES] or [–/NO] to select a channel.**

or +/YES –/NO ➡ =RADIO SELECT=   ↓↑→
02:Classic Channel

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

or
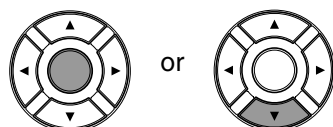
The DisklavierRadio screen appears.
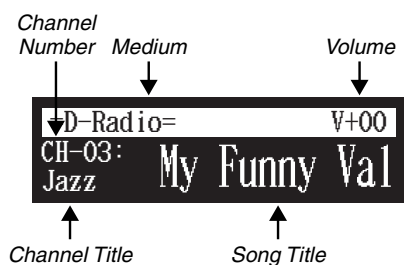
Channel Number *Medium* *Volume*

▼D-Radio=   V+00
CH-03: My Funny Val
Jazz

Channel Title   *Song Title*

■ Muting the Sound

1 **Press [PAUSE] or [STOP].**

[II] or [■] ➡

```
=D-Radio=          MUTE
CH-03:
Jazz     My Funny Val
```
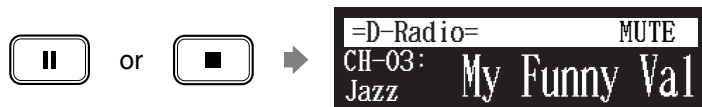
"MUTE" appears on the upper right of the screen.

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

[II] or [■]
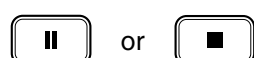
Adjusting the Volume

[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.

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

VOLUME

[+]
[–] ➡

The main volume setting screen appears.

```
=BALANCE=    VOLUME-/+
MAIN VOLUME -01
```

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

VOLUME

[+]
[–] ➡

Volume
↓

```
=Memory=         LR SO V-01
A02-001
<00:00>  Piano Sonate
```

The current volume level appears on the upper right of the screen.

☞ See Chapter 4 "Advanced Song Playback – Adjusting the Volume Balance among the Keyboard Playing, Ensemble Sound, and Software Playback" on page 31.

☞ See Chapter 4 "Advanced Song Playback – Adjusting the Volume Balance among the Keyboard Playing, Ensemble Sound, and Software Playback" on page 31.

Note: This setting does not affect manual playing.

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.

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

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.

```
TEMPO
[ – ]  [ 0 ]  [ + ]
```
➡
```
=Memory=        TEMPO-/0/+
TEMPO +01%
```

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

```
TEMPO
[ – ]  [ 0 ]  [ + ]
```
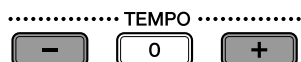
Playback tempo can be adjusted from –50% to +50% in 1% increments.

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

```
TEMPO
[ – ]  [ 0 ]  [ + ]
```
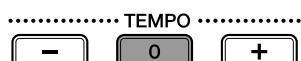
Note: You cannot change the playback tempo of songs on CDs.

☞ Tempo changes to songs that you have recorded yourself can be made permanent. See Chapter 7 "Advanced Recording – Changing the Default Tempo" on page 52.

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.

Advanced Song Playback

1 **Press [TRANSPOSE –] or [TRANSPOSE +] on the remote control.**

The transposition setting screen appears.

········· TRANSPOSE ·········
[–] [0] [+] ➡

=Memory=   TRANS–/0/+
TRANS +01key

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

2 **Press [TRANSPOSE –] or [TRANSPOSE +] to change the key.**
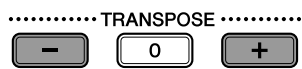
········· TRANSPOSE ·········
[–] [0] [+]

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

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

············· TEMPO ·············
[–] [0] [+]

Repeating Song Playback

Song Playback Screen **[REPEAT]**

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

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

The repeat setting screen appears.

REPEAT
[   ] ➡

=Memory=   REPEAT
REPEAT ALL

2 **Press [REPEAT] to select repeat modes.**

REPEAT
[   ]

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.

Advanced Song Playback

English

3 **Press [PLAY] to start repeat playback.**

▶

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

REPEAT

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] when the desired point is reached.**

Point A is set.
The A~B repeat setting screen appears with the "B" flashing.

A-B ➡ =Memory= A-B
⟨01:11⟩ A-B

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

Point B is set.

A-B ➡ =Memory= A-B
⟨02:22⟩ A-B
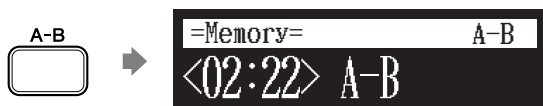
Playback starts from point A, continues up to point B and, returns to point A and playback starts repeatedly.

Point A   Point B
SONG 1 | SONG 2 | SONG 3
Start ➤
Cycle
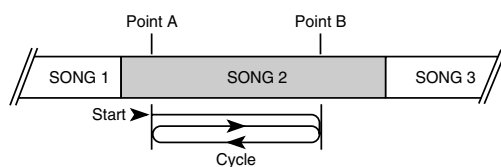
You cannot set point B that is beyond the selected song.

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

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

```
=Memory=          A-B
<01:38> OFF
```

To return to the playback screen, press [BACK].

Playing Back Only the Desired Piano Part

Song Playback Screen **[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.**

```
··· PART  SELECT ···
[ L ]  [ R ]
```
➡
```
=Piano Part=      L/R
L=ON  R=OFF  P=ON
```

The part cancellation screen appears with the corresponding part canceled.

Notes of displays:
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.**

```
··· PART  SELECT ···
[ L ]  [ R ]
```
➡
```
=Piano Part=      L/R
L=ON  R=ON  P=ON
```

Press [BACK] to return to the song playback screen.

BACK
◯

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=."**

=Piano Part=   L/R
L=ON R=OFF P=ON

English

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

"P=OFF" appears.

+/YES

–/NO

=Piano Part=   L/R
L=ON R=OFF P=OFF
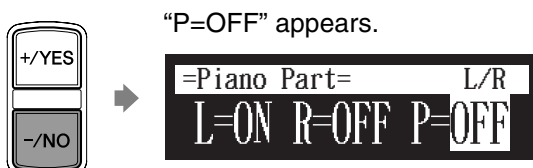
3 **To replay the pedal part, press [+/YES] with the cursor is on "P=."**

+/YES

–/NO

Press [BACK] to return to the song playback screen.

BACK

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

Song Playback Screen   **[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. See Chapter 5 "Advanced Piano Playing – Playing the Disklavier with an Ensemble Voice" on page 41.

Chapter

4

Advanced Song Playback

■ **Adjusting the TG Balance**

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

BALANCE ➡

=BALANCE=   −+
TG BALANCE 100

The TG balance setting screen appears with the "TG BALANCE xxx" flashing.

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

+/YES

−/NO

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.**

BALANCE ×2 ➡

=BALANCE=   −+
AUDIO BALANCE 100

The audio balance setting screen appears with the "AUDIO BALANCE xxx" flashing.

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

+/YES

−/NO
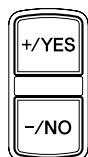
Audio volume can be adjusted in a range of 10 to 127.

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

■ Adjusting the Voice Balance

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

BALANCE ×3 ➡

=BALANCE= –+
VOICE BALANCE 100

The voice balance setting screen appears with the "VOICE BALANCE xxx" flashing.

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

+/YES
–/NO
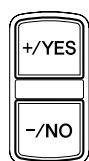
Voice volume can be adjusted in a range of 0 to 127.

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

English

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.].**

FUNC. ➡

=CD= –+ENT
AudioPitch=+00cent

The audio pitch setting screen appears with the "AudioPitch=xxxcent" flashing.

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

+/YES
–/NO ➡

=CD= –+ENT
AudioPitch=+01cent

Audio pitch can be adjusted in a range of –50 cent to +50 cent.

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

Advanced Song Playback

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.**

FUNC.

=CD=   −+ENT
AudioPan=Center

The audio pan setting screen appears with the "AudioPan=xxxxxx" flashing.

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

+/YES

−/NO

=CD=   −+ENT
AudioPan=Left

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 Timer Play

[SETUP]

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."

Important: 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.

Note: Prolonged playback may cause your piano to overheat. Insert sufficient breaks between continuous song playback.

■ Setting the Timer Play

1 **Press [SETUP].**

The setup menu screen appears.

SETUP ▶

```
=SETUP MENU=      (1/2)→
*TimerPlay  *AudioI/O
*MIDI       *M-Tune
```

2 **Select "TimerPlay" with the cursor buttons ([◀] [▶] [▲] [▼]), then press [ENTER].**
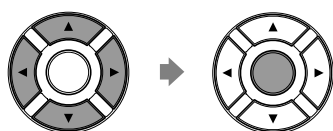
The timer play setting screen appears.

Timer switch

```
▼TIMER PLAY=     ←↓  →-+
>TimerPlay=OFF
01[##:##  ----        ]
```

*Program Time Function Album
number   selection*
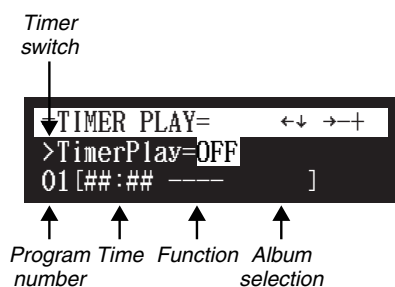
List of the parameters

Item	Option	Description
Timer switch	ON, OFF	Enables or disables the timer play function.
Program number	01 - 99	Indicate the number of a program. Only program numbers with programs are displayed.
Time	##:##	No set.
	00:00 - 23:59	Indicates the time at which a function is to be performed.
Function	----	No set.
	PLAY	The function to be performed at the specified time.
	STOP	Stops the timer play.
Album selection	-----	Playbacks the current selected song.
	Mem01 - Mem99	Album numbers in the memory disk.
	Lst01 - Lst99	List numbers in the playlist.

Advanced Song Playback

■ Switching ON and OFF

To switch ON and OFF, press [▼] to move the cursor to the timer switch, then press [+/YES] and [–/NO].

```
=TIMER PLAY=        ←↓ →–+
>TimerPlay=ON
01[##:## ---- -----]
```
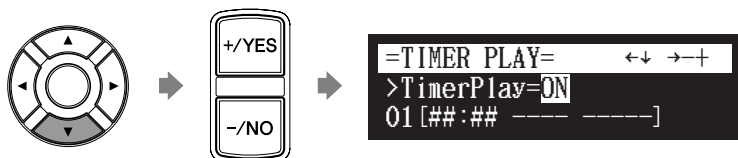
■ Moving Program Number

Press [▲] and [▼] to go to the program number.
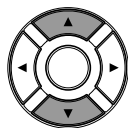
The cursor moves to the function parameter.

■ Setting Function

To switch the function parameter, press [◄] and [►] to move the cursor to the function parameter, then press [+/YES] and [–/NO].
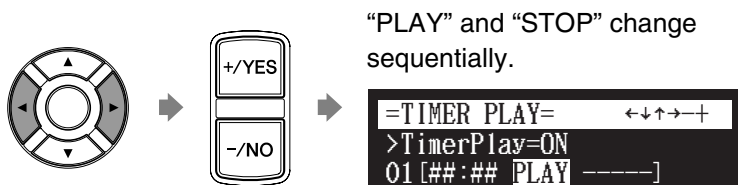
"PLAY" and "STOP" change sequentially.

```
=TIMER PLAY=        ←↓↑→–+
>TimerPlay=ON
01[##:## PLAY -----]
```

When "PLAY" is selected, the album selection parameter appears.

■ Selecting Album

Press [►] to move the cursor to the album selection parameter, then press [+/YES] and [–/NO] to select the album.

```
=TIMER PLAY=        ←↓↑→–+
>TimerPlay=ON
01[08:15 PLAY Mem01]
```

■ **Setting Time**

1 **Press [◄] and [►] to move the cursor to the hour parameter, then press [+/YES] and [–/NO] to set hours.**

×2 ➡ +/YES / –/NO ➡

```
=TIMER PLAY=        ←↓↑→−+
>TimerPlay=ON
01[08:00 PLAY −−−−−]
```

English

2 **Press [►] to move the cursor to the minute parameter, then press [+/YES] and [–/NO] to set minutes.**

➡ +/YES / –/NO ➡

```
=TIMER PLAY=        ←↓↑→−+
>TimerPlay=ON
01[08:15 PLAY −−−−−]
```

■ **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.

```
=Memory=        LR S0 V+00
A02-001
12:00T Piano Sonate
```

Indicates the timer play ON.

Skipping the Blank Part at the Beginning of a Song

[SETUP]

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].**

The setup menu screen appears.

SETUP ➡

```
=SETUP MENU=        ←(2/2)
*Network     *Playback
*Reverb      *Reset
```

Advanced Song Playback

2 **Select "Playback" with the cursor buttons ([◄] [►] [▲]
[▼]), then press [ENTER].**

```
=SETUP MENU=        ←(2/2)
*Network     *Playback
*Reverb      *Reset
```

The playback setting screen appears with the cursor flashing.

```
=Playback=           −+
>SkipSpace=ON
```
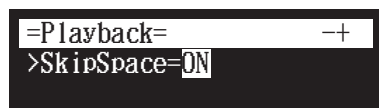
3 **Press [+/YES] and [–/NO] to switch ON and OFF.**

```
+/YES

−/NO
```

4 **Press [ENTER] to return to the setup menu.**
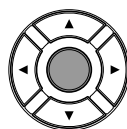
Adding Disklavier Accompaniment to Commercial CD Songs (PianoSmart™ Playback)

Insert a CD ▸ **[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.

☞ To record the piano performance to add, see Chapter 7 "Advanced Recording – CD Synchronized Recording" on page 54.

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.

```
►
```

```
=Memory=          (SPS) V+00
A01-038  PIANO038. MID
<00:03>
```

SmartKey™ Playback

Select a SmartKey Song **[PLAY]**

Special SmartKey software uses all the "SmartKey" features to create an exciting way in which no-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.

English

1 **Select a desired SmartKey song.**

2 **Press [PLAY].**

▶

Playback stops, and the key to play next moves slightly.
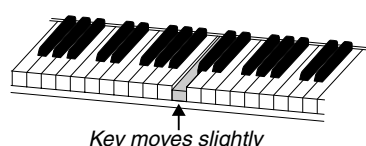
The key to play flashes in the counter.

Key moves slightly

```
=CD=            SK LR V+00
A05-001
<E3  >  Pachelbel's
```

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.
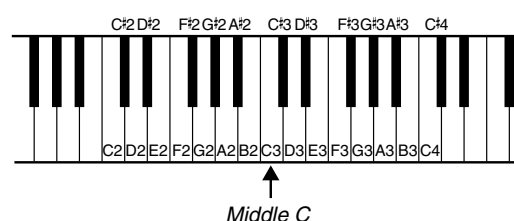
C#2 D#2   F#2 G#2 A#2   C#3 D#3   F#3 G#3 A#3   C#4

C2 D2 E2 F2 G2 A2 B2 C3 D3 E3 F3 G3 A3 B3 C4

Middle C

Advanced Piano Playing

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.

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).

1 **Press [METRONOME].**

METRONOME

```
=METRONOME=            ←→-+
TEMPO=117bpm  ♩=4/4
VOLUME=▮▮▮▮
```

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

2 **To change the tempo, press [►] to move the cursor to the tempo parameter, then press [+/YES] and [–/NO].**

+/YES

–/NO

```
=METRONOME=            ←→-+
TEMPO=125bpm  ♩=4/4
VOLUME=▮▮▮▮
```

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

3 **To change the beat, press [►] to move the cursor to the beat parameter, then press [+/YES] and [–/NO].**

+/YES

–/NO

```
=METRONOME=            ←→-+
TEMPO=125bpm  ♩=3/4
VOLUME=▮▮▮▮
```

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

4 **To change the volume, press [►] to move the cursor to the volume parameter, then press [+/YES] and [–/NO].**

+/YES

–/NO

```
=METRONOME=            ←→-+
TEMPO=125bpm  ♩=3/4
VOLUME=▮▮▮□
```

The volume can be adjusted in 4 steps.

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 676 instrumental voices and 21 drum kits for playing the keyboard.

1 Press [VOICE].

The voice selection screen appears.

VOICE

```
=VOICE=            ↔→-+
Group=01<Piano        >
Voice=001<GrandPno> [XG
```
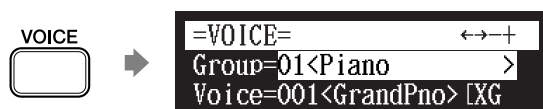
2 Press [+/YES] and [–/NO] to select a voice group.

+/YES

–/NO

```
=VOICE=            ↔→-+
Group=02<ChromaticPerc>
Voice=040<Celesta > [XG
```
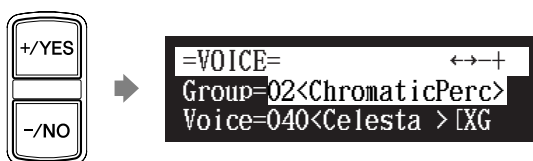
Changing the voice group displays the top voice of that group in the voice parameters.

3 To change the voice, press [►] to move the cursor to the voice parameter, then press [+/YES] and [–/NO].

+/YES

–/NO

```
=VOICE=            ↔→-+
Group=02<ChromaticPerc>
Voice=041<Glocken > [XG
```

If necessary, adjust the volume of the voice in the voice balance setting screen. See Chapter 4 "Advanced Song Playback – Adjusting the Volume Balance among the Keyboard Playing, Ensemble Sound, and Software Playback" on page 31.

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

VOICE

English

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

Song Playback Screen ▶ **[RECORD]** ▶

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

1 Select a destination medium and album.

2 Press [RECORD].

[●] ➡

```
=RECORD=        ■_  LR 99%
A01-039
<00:00>  (New Song)
```

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 as soon as you touch a key. The counter starts to advance.

```
=RECORD=        ■_  LR 99%
A01-039
<00:01>  (New Song)
```

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

[■]

The recorded song is loaded.

☞ To select a medium and album, see Chapter 3 "Basic Song Playback – Selecting Medium and Their Contents" on page 17.

Titling a Song

Song Playback Screen [RECORD] **[FUNC.]×2**

Title a new song before you start recording.

1 **Press [FUNC.] twice in the recording standby screen.**

The song title editing screen appears.

FUNC.
◯ ×2 ➡

=RECORD=   ←→─+

2 **Use [◄] and [►] to move the cursor.**
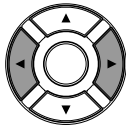
3 **Select characters with [+/YES] and [–/NO] or the keyboard.**

+/YES

–/NO

➡

=RECORD=   ←→─+
Chopin

You can enter up to 32 characters.

☞ To enter characters using the keyboard, see "Keyboard Characters Map" on next page.

4 **Press [PLAY] after title determined.**

►

Recording begins.

Basic Recording

Keyboard Characters

The following table shows which characters are available.

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		
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				
!	"	#	$	%	&	'	(	)	*	+	,	−	.	/
:	;	<	=	>	?									
0	1	2	3	4	5	6	7	8	9					

Keyboard Character Map

The Disklavier keyboard can also be used to enter characters when titling songs and disks.

Note: Not all characters that the Disklavier provides are available from the keyboard. Certain punctuation must be input from the Control Unit. See the character table above.

Chapter

7
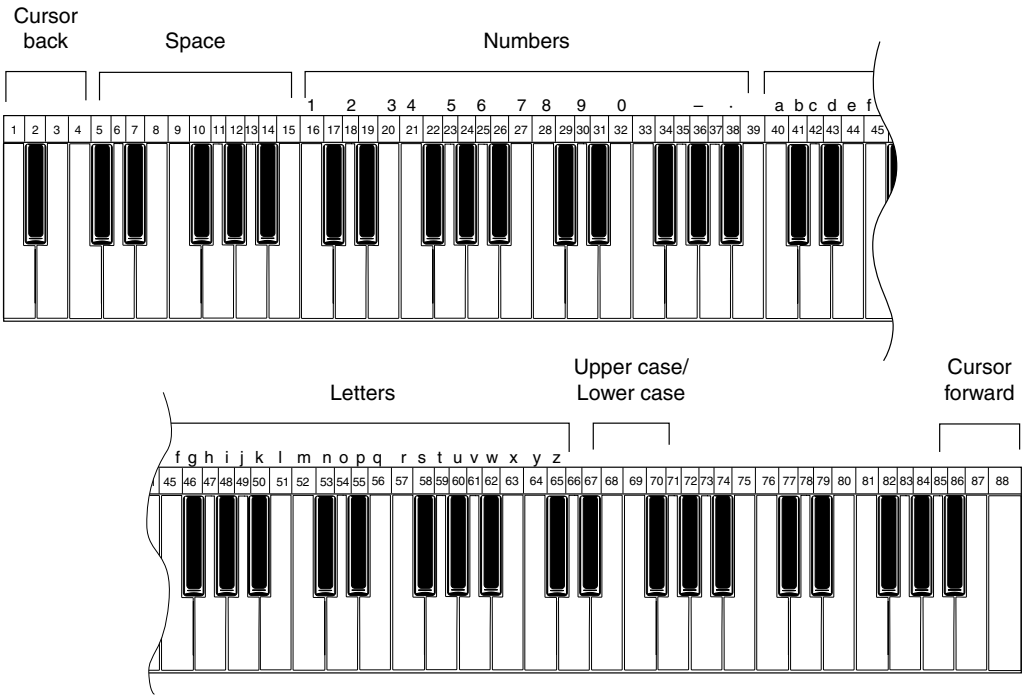
Advanced Recording

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 setting screen **[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].

METRONOME

The metronome setting screen appears.

2 To change the tempo, press [▶] to move the cursor to the tempo parameter, then press [+/YES] and [–/NO].
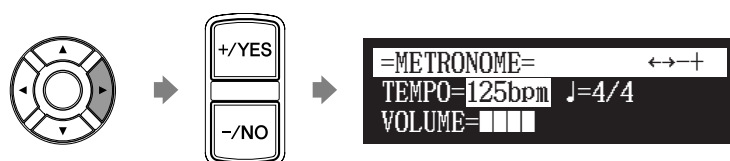
+/YES

–/NO

```
=METRONOME=          ←→−+
TEMPO=125bpm  ♩=4/4
VOLUME=▮▮▮▮
```
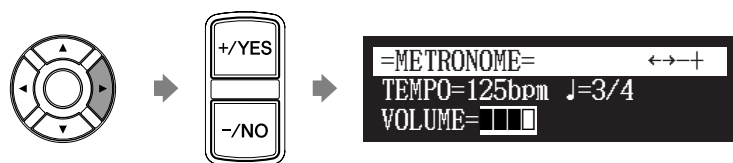
The tempo can be adjusted in a range of 30 bpm to 400 bpm.

3 To change the beat, press [▶] to move the cursor to the beat parameter, then press [+/YES] and [–/NO].

+/YES

–/NO

```
=METRONOME=          ←→−+
TEMPO=125bpm  ♩=3/4
VOLUME=▮▮▮▮
```

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

4 To change the volume, press [▶] to move the cursor to the volume parameter, then press [+/YES] and [–/NO].

+/YES

–/NO

```
=METRONOME=          ←→−+
TEMPO=125bpm  ♩=3/4
VOLUME=▮▯▯▯
```
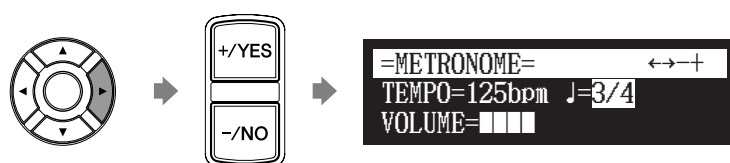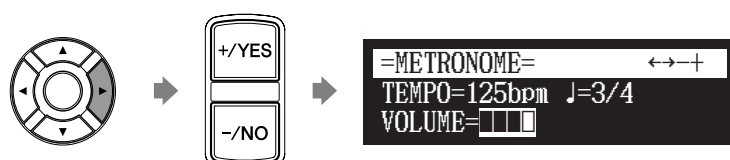
The volume can be adjusted in 4 steps.

Advanced Recording

5 **Press [RECORD] in the metronome setting screen.**

The metronome recording setting screen appears.

[●] ➡

```
=METRONOME=           ←→-+
TEMPO=117bpm  ♩=4/4
VOLUME=▮▮▮▮
```

6 **Press [PLAY]**

[▶]

The metronome starts and recording begins immediately.
The indicators flash to show the beat and the beat counter starts
counting (001-1). The display will cycle as shown below in the first
measure.

```
=RECORD=           L R 99%
A01-039 ▮▮▮▮▮▮▮▮▮▮▮▮▮▮
<001-1> ▮▮▮▮▮▮▮▮▮▮▮▮▮▮
```

⬇

```
=RECORD=           L R 99%
A01-039        ▮▮▮▮▮▮
<001-2>        ▮▮▮▮▮▮
```

⬇

```
=RECORD=           L R 99%
A01-039 ▮▮▮▮▮▮
<001-3> ▮▮▮▮▮▮
```
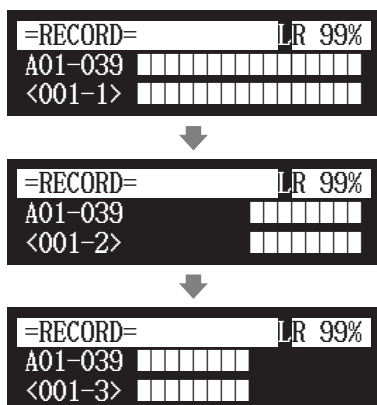
The display will return to the normal recording screen after counting
for the first measure.

7 **Start playing your song.**

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

[■]

The recorded song is loaded.

Recording the Left and Right Parts Separately

Album Selection Screen ➤ [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.

■ Recording the Left-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.

FUNC.
◯ ➤
```
=RECORD=          LR
L=REC  R=OFF
```

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.

English

☞ To select a medium and album, see Chapter 3 "Basic Song Playback – Selecting Medium and Their Contents" on page 17.

☞ In the case you want to title your new song before recording, see Chapter 6 "Basic Recording – Titling a Song" on page 43, to rename the title after recording, see Chapter 8 "Media Management – Renaming a Song" on page 64.

☞ If you want to record your L/R song using the metronome, see Chapter 7 "Advanced Recording – Recording with the Internal Metronome" on page 45.

Advanced Recording

■ Recording the Right-Hand Part

1 **Press [RECORD].**

2 **Press [◄] and [►] to select the L/R song with the left-hand part that you have just recorded.**

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

The part selection screen appears.

FUNC.

➡

=RECORD=   LR
L=PLY R=OFF

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

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

The part set to "REC" will be recorded.

••• PART SELECT •••

| L | R |

➡

=RECORD=   LR
L=PLY R=REC

5 **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.

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

The following screen appears.

[■] ➡

```
=RECORD=            ↔ENT
Save to Disk?
*SAVE *NEW *CANCEL
```

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.
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.

7 **Press [◄] and [►] to select an option, then press [ENTER].**
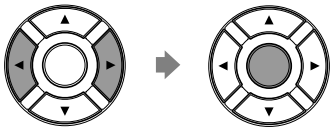
The right-hand part is saved as indicated or canceled.

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

Album Selection Screen ▶ [RECORD] ▶ **[FUNC.]** ▶

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 recording part menu appears.

FUNC.
○ ➡

```
=RECORD=            LR
L=REC R=OFF
```

☞ To select a medium or album, see Chapter 3 "Basic Song Playback – Selecting Medium and Their Contents" on page 17.

☞ In the case you want to title your new song before recording see Chapter 6 "Basic Recording – Titling a Song" on page 43, to rename the title after recording, see Chapter 8 "Media Management – Renaming a Song" on page 64.

☞ If you want to record your L/R song using the metronome, see Chapter 7 "Advanced Recording – Recording with the Internal Metronome" on page 45.

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

The split point setting screen appears.

··· PART SELECT ···
[L] [R] ➡ =RECORD= −+
LR=REC SPLIT=C3

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 note C3 and above are saved as the right-hand part, as shown in the following figure.

Left-hand part   C3   Right-hand part
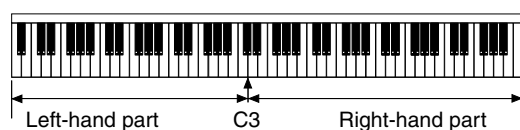
5 **To change the split point, press a key on the keyboard or [+/YES] and [–/NO] to select a different key.**

or   [+/YES]
[–/NO]
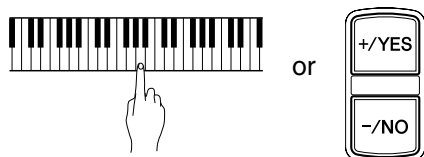
The split point can be set from note A-1 to note C7.

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

Album Selection Screen ▸ [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.

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

··· PART SELECT ···

| L | | R |

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.

```
=RECORD=              ↔ENT
Save to Disk?
*SAVE  *NEW   *CANCEL
```

English

Advanced Recording

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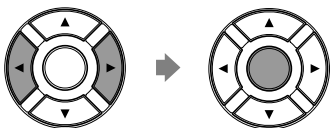
The re-recorded part is saved as indicated or canceled.

Changing the Default Tempo

Album Selection Screen ▸ [RECORD] ▸ Select the song ▸ **[FUNC.]×3**

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 17.

English

3 **Press [◄] and [►] to select the song in which you want to change the tempo.**

4 **Press [FUNC.] three times.**

FUNC.
◯ ×3
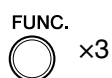
For **measures and beats**, the current song tempo (bpm) is shown.

=RECORD=   ←→–+
 TEMPO=117bpm ♩=4/4
 VOLUME=▮▮▮▮
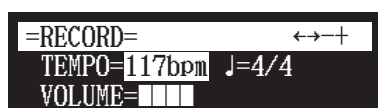
For **minutes and seconds**, the current song tempo is shown as "000%."

=RECORD=   –+
 TEMPO=+000%
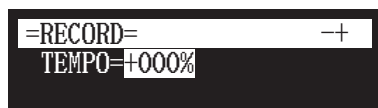
5 **Press [+/YES] and [–/NO] to change the tempo.**

+/YES

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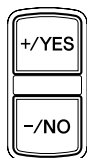
[+/YES] increases the tempo, and [–/NO] decreases the tempo.
For **measure and beats**, the tempo range is from 30 bpm to 400 bpm.
For **minutes and seconds**, the tempo range is from –75% to +242%.

6 **Press [STOP] to save the tempo change.**

The following screen appears.

■ ➡

=RECORD=   ←→ENT
 Save to Disk?
 ∗SAVE ∗NEW ∗CANCEL

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 title.
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.

Advanced Recording

7 **Press [◄] and [►] to select an option, then press [ENTER].**
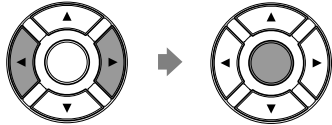
To change the tempo again or to reset the original tempo, repeat steps 1 to 6.

CD Synchronized Recording

Album Selection Screen ▸ 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.**

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

3 **Press [RECORD].**

● ➡ =RECORD= (SPS)   LR 99%
       A01-038 (New Song)
       <00:00>
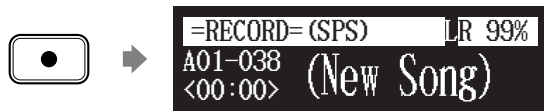
The SPS recording standby screen appears, and [RECORD] on the control unit lights red, and [PLAY/PAUSE] flashes in green.

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.

Chapter

8

Media Management

This chapter describes how to manage contents inside the media, such as managing albums, songs and playlists.

Managing Albums

Album Selection Screen **[FUNC.]**

You can use the album function menu for creating, deleting and copying albums inside a medium.

) To select a album, see Chapter 3 "Basic Song Playback – Selecting Medium and Their Contents" on page 17.

1 Press [FUNC.] in the album selection screen.

The album function menu screen appears.

FUNC.

```
=ALBUM MENU=      (1/2)→
*CopyAlbum   *DeleteAlbum
*NewAlbum    *RenameAlbum
```

2 Select a desired function with the cursor buttons ([◄] [►] [▲] [▼]), then press [ENTER].

```
=ALBUM MENU=      (1/2)→
*CopyAlbum   *DeleteAlbum
*NewAlbum    *RenameAlbum
```

) About playlists, see Chapter 8 "Media Management – Managing Playlists" on page 68.

Note: Available functions vary depending on the medium you selected.

The following functions are available:
- CopyAlbum
- DeleteAlbum
- NewAlbum
- RenameAlbum
- SortAlbum
- AddToPList
- DeleteList
- NewList
- RenameList

Making Copies of Albums

Album Selection Screen [FUNC.] **Select "CopyAlbum"**

You can make copies of the album to the different medium.

This function is available for albums on [Memory], [CD](CD-ROM), [USB1], [USB2] and [FromToPC].

Media Management

1 **Select "CopyAlbum" in the album function menu, then press [ENTER].**

```
=ALBUM MENU=      (1/2) →
*CopyAlbum  *DeleteAlbum
*NewAlbum   *RenameAlbum
```
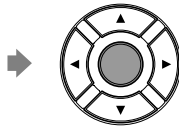
The CopyAlbum screen appears.

```
=CopyAlbum=        -+ENT
01:Beatles Selection
→Memory  >(NewAlbum)
```

2 **Select a destination medium with [+/YES] and [–/NO].**

+/YES
–/NO
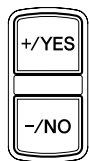
```
=CopyAlbum=        -+ENT
01:Beatles Selection
→USB1    >(NewAlbum)
```

3a **To copy to the new album, press [ENTER].**

"OK?" flashes in the first line of the screen.
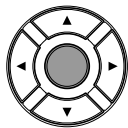
```
=CopyAlbum=  OK? YES/NO
01:Beatles Selection
→USB1    >07:/Album07/
```

3b **To add to the existing album, press [►] to move the cursor to the album, and press [+/YES] and [–/NO] to select the album, then press [ENTER].**

+/YES
–/NO
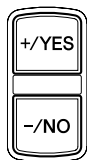
```
=CopyAlbum=        -+ENT
01:Beatles Selection
→USB1    >07:/Album07/
```

"OK?" flashes in the first line of the screen.
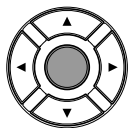
```
=CopyAlbum=  OK? YES/NO
01:Beatles Selection
→USB1    >07:/Album07/
```

4 **Press [+/YES] to make a copy, [–/NO] to cancel.**

After a while, the completion
message appears.

```
=CopyAlbum=
Executing...
```
➡
```
=CopyAlbum=     ANY
Completed.
Press any button.
```

Press any button to return to the album function menu.

Deleting Albums

Album Selection Screen ▶ [FUNC.] ▶ **Select "DeleteAlbum"**

You can delete the albums.

This function is available for albums on [Memory], [USB1], [USB2] and
[FromToPC].

1 **Select "DeleteAlbum" in the album function menu, then
press [ENTER].**

```
=ALBUM MENU=      (1/2)→
*CopyAlbum   *DeleteAlbum
*NewAlbum    *RenameAlbum
```
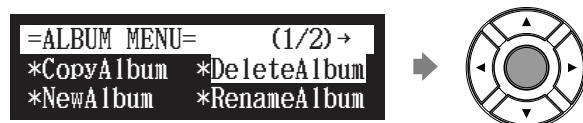
The DeleteAlbum screen appears.

```
=DeleteAlbum=      ENT
01:Beatles Selection
```

2 **Press [ENTER].**

"OK?" flashes in the first line of the screen.

```
=DeleteAlbum=OK? YES/NO
01:Beatles Selection
```
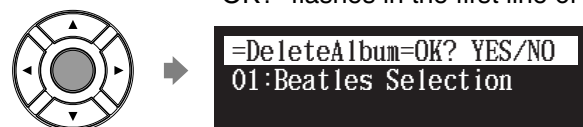
3 **Press [+/YES] to delete the album, [–/NO] to cancel.**

After a while, the completion
message appears.

```
=DeleteAlbum=
Executing...
```
➡
```
=DeleteAlbum=     ANY
Completed.
Press any button.
```

Press any button to return to the album function menu.

Media Management

Creating a New Album

Album Selection Screen ▸ [FUNC.] ▸ **Select "NewAlbum"**

You can create a new album into the selected medium.

This function is available for albums on [Memory], [USB1] and [USB2].

Note: Up to 99 albums can be created. If [USB1], [USB2] or [FromToPC] is specified, you cannot create the same titled album as the existed one.

1 Select the "NewAlbum" in the album function menu, then press [ENTER].

```
=ALBUM MENU=      (1/2)→
*CopyAlbum  *DeleteAlbum
*NewAlbum   *RenameAlbum
```
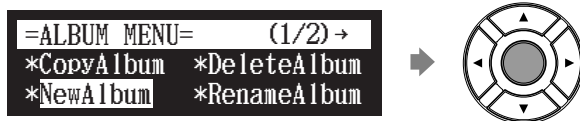
The NewAlbum screen appears.
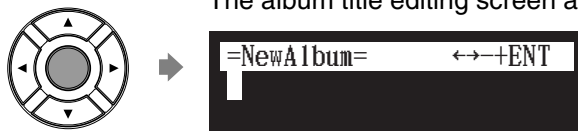
```
=NewAlbum=        ENT
03:(no title)
```

2 Press [ENTER].

The album title editing screen appears.

```
=NewAlbum=     ←→-+ENT
```

3 Use [◄] and [►] to move the cursor.

4 Select characters with [+/YES] and [–/NO] or the keyboard.

```
=NewAlbum=     ←→-+ENT
Beatles
```

You can enter up to 64 characters.

☞ To enter characters using the keyboard, see "Keyboard Character Map" on page 44.

5 Press [ENTER].

"OK?" flashes in the first line of the screen.

```
=NewAlbum=   OK? YES/NO
03:Beatles Selection
```
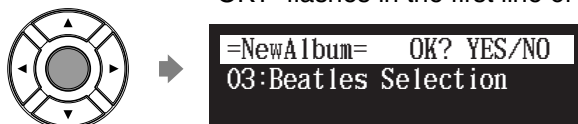
6 **Press [+/YES] to create a new album, [–/NO] to cancel.**

After a while, the completion message appears.

```
=NewAlbum=
Executing...
```

➡

```
=NewAlbum=        ANY
Completed.
Press any button.
```

Press any button to return to the album function menu.

Renaming an Album

Album Selection Screen ▶ [FUNC.] ▶ **Select "RenameAlbum"**

You can rename the albums which already named.

This function is available only for albums on [Memory].

1 **Select "RenameAlbum" in the album function menu, then press [ENTER].**

```
=ALBUM MENU=      (1/2)→
*CopyAlbum   *DeleteAlbum
*NewAlbum    *RenameAlbum
```

➡
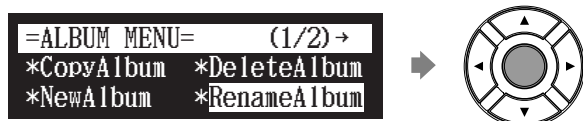
The RenameAlbum screen appears.
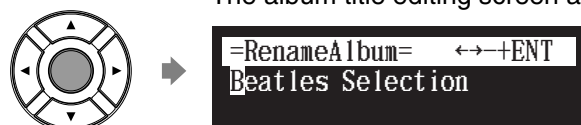
```
=RenameAlbum=     ENT
01:Beatles Selection
```

2 **Press [ENTER].**

The album title editing screen appears.

➡

```
=RenameAlbum=  ←→-+ENT
Beatles Selection
```

3 **Use [◄] and [►] to move the cursor.**

4 **Select characters with [+/YES] and [–/NO] or the keyboard.**

```
=RenameAlbum=  ←→-+ENT
Monkeys Selection
```

You can enter up to 64 characters.

☞ To enter characters using the keyboard, see "Keyboard Character Map" on page 44.

Media Management

5 **Press [ENTER].**

"OK?" flashes in the first line of the screen.
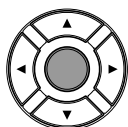
```
=RenameAlbum=OK? YES/NO
01:Monkeys Selection
```

6 **Press [+/YES] to rename, [–/NO] to cancel.**

After a while, the completion message appears.

```
=RenameAlbum=
Executing...
```

```
=RenameAlbum=      ANY
Completed.
Press any button.
```

Press any button to return the album function menu.

Rearranging the Order of Albums

Album Selection Screen [FUNC.] **Select "SortAlbum"**

You can rearrange the order of albums that you selected.

This function is available only for albums on [Memory].

1 **Select "SortAlbum" in the album function menu, then press [ENTER].**

```
=ALBUM MENU=      ←(2/2)
*SortAlbum  *AddToPList
*Convert
```

The SortAlbum screen appears.

```
=SortAlbum=      ↓↑ENT
06:Favorite Latin Select
07:Free Flight
```

2 **Press [▲] and [▼] to move the albums to the desired position.**
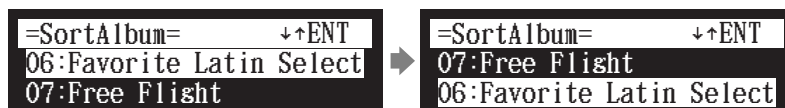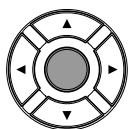
```
=SortAlbum=        ↓↑ENT
06:Favorite Latin Select
07:Free Flight
```
➡
```
=SortAlbum=        ↓↑ENT
07:Free Flight
06:Favorite Latin Select
```

3 **Press [ENTER].**

"OK?" flashes in the first line of the screen.

```
=SortAlbum=  OK? YES/NO
08:Mike Garson Trio-Live
06:Favorite Latin Select
```

4 **Press [+/YES] to rearrange, [–/NO] to cancel.**

After a while, the completion message appears.

```
=SortAlbum=
Executing...
```
➡
```
=SortAlbum=        ANY
Completed.
Press any button.
```

Press any button to return to the album function menu.

Managing Songs

Song Selection Screen ▸ **[FUNC.]** ▸

You can use the song function menu for managing the copy or the deletion songs inside the album.

☞ To select the song, see Chapter 3 "Basic Song Playback – Selecting Medium and Their Contents" on page 17.

1 **Press [FUNC.] in the song selection screen.**

The song function menu screen appears.

FUNC.

```
=SONG MENU=       (1/2)→
*CopySong   *DeleteSong
*RenameSong *SortSong
```
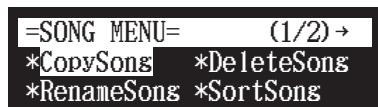
Media Management

2 **Select a desired function with the cursor buttons ([◄]**
[►] [▲] [▼]), then press [ENTER].

```
=SONG MENU=        (1/2)→
*CopySong    *DeleteSong
*RenameSong  *SortSong
```
➡️

The following functions are available:
- CopySong
- DeleteSong
- RenameSong
- SortSong
- AddToPList
- ConvertSong
- Counter

☞ About playlists, see Chapter 8
"Media Management –
Managing Playlists" on page 68.

Note: Available functions vary
depending on the medium
you selected.

Note: If there is no available
function or no song, the
song function menu screen
does not appear although
pressing [FUNC.].

Making Copies of Songs

Song Selection Screen   [FUNC.]   **Select "CopySong"**

You can copy songs stored on an album to another.

This function is available for song in the album on [Memory], [CD](CD-ROM), [USB1], [USB2] and [FromToPC].

Note: Copy-protected songs, such
as PianoSoft songs, cannot
be copied to a removable
medium.

1 **Select "CopySong" in the song function menu, then press**
[ENTER].

```
=SONG MENU=        (1/2)→
*CopySong    *DeleteSong
*RenameSong  *SortSong
```
➡️
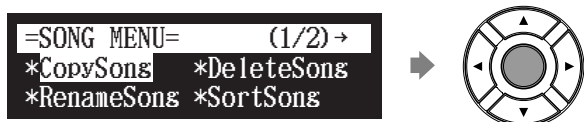
The CopySong screen appears.

```
=CopySong=      ←→-+ENT
001:Mo'Art
→Memory >02:Free Flight
```

2 **Select a destination medium with [+/YES] and [–/NO].**

+/YES

–/NO
➡️
```
=CopySong=      ←→-+ENT
001:Mo'Art
→USB1  >01:USB Media
```
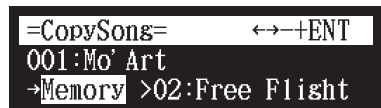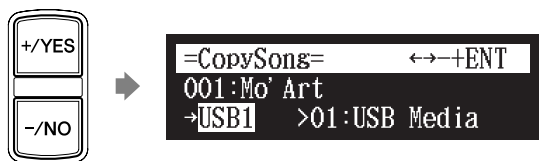
3 **Press [►] to move the cursor to the album, and press [+/YES] and [–/NO] to select a destination album.**
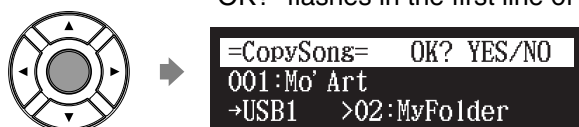
```
=CopySong=        ←→−+ENT
001:Mo' Art
→USB1    >02:MyFolder
```

4 **Press [ENTER].**

"OK?" flashes in the first line of the screen.

```
=CopySong=    OK? YES/NO
001:Mo' Art
→USB1    >02:MyFolder
```

5 **Press [+/YES] to make a copy, [–/NO] to cancel.**

After a while, the completion message appears.

```
=CopySong=
Executing...
```

```
=CopySong=         ANY
Completed.
Press any button.
```

Press any button to return to the song function menu.

Deleting Songs

Song Selection Screen [FUNC.] Select "DeleteSong"

You can delete songs stored on an album.

This function is available for songs in the album on [Memory], [USB1], [USB2] and [FromToPC].

1 **Select "DeleteSong" in the song function menu, then press [ENTER].**

```
=SONG MENU=      (1/2)→
*CopySong    *DeleteSong
*RenameSong  *SortSong
```
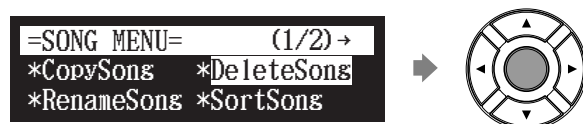
The DeleteSong screen appears.

```
=DeleteSong=        ENT
001:Mo' Art
```

English

Media Management

2 **Press [ENTER].**

"OK?" flashes in the first line of the screen.
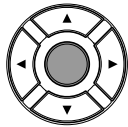
```
=DeleteSong= OK? YES/NO
001:Mo'Art
```

3 **Press [+/YES] to delete the song, [–/NO] to cancel.**

After a while, the completion message appears.

```
=DeleteSong=
Executing...
```

```
=DeleteSong=        ANY
Completed.
Press any button.
```

Press any button to return to the song function menu.

Renaming a Song

Song Selection Screen [FUNC.] Select "RenameSong"

You can rename the songs which already named.

This function is available for songs in the album on [Memory], [USB1], [USB2] and [FromToPC].

1 **Select "RenameSong" in the song function menu, then press [ENTER].**

```
=SONG MENU=       (1/2) →
*CopySong   *DeleteSong
*RenameSong *SortSong
```
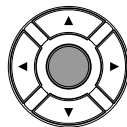
The RenameSong screen appears.

```
=RenameSong=        ENT
006:Toccata
```

2 **Press [ENTER].**

The song title editing screen appears.
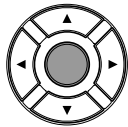
```
=RenameSong=      ←→−+ENT
Toccata
```
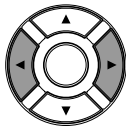
64

3 **Use [◄] and [►] to move the cursor.**

4 **Select characters with [+/YES] and [–/NO] or the keyboard.**

```
=RenameSong=      ↔─+ENT
 Toccata and Fugue
```

You can enter up to 32 characters.

☞ To enter characters using the keyboard, see "Keyboard Character Map" on page 44.

English

5 **Press [ENTER].**

"OK?" flashes in the first line of the screen.

```
=RenameSong= OK? YES/NO
 006:Toccata and Fugue
```

6 **Press [+/YES] to rename, [–/NO] to cancel.**

After a while, the completion message appears.

```
=RenameSong=
 Executing...
```
➡
```
=RenameSong=      ANY
 Completed.
 Press any button.
```
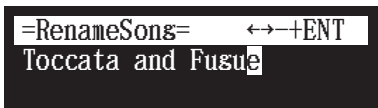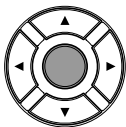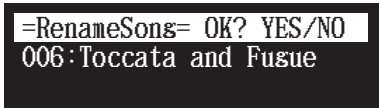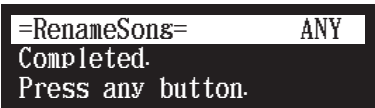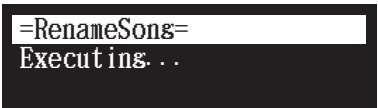
Press any button to return to the song function menu.

Rearranging the Order of Songs

Song Selection Screen → [FUNC.] → Select "SortSong"

You can rearrange the order of songs in an album.

This function is available only for songs in the album on [Memory].

1 **Select "SortSong" in the song function menu, then press [ENTER].**

```
=SONG MENU=       (1/2)→
 *CopySong   *DeleteSong
 *RenameSong *SortSong
```

The SortSong screen appears.

```
=SortSong=        ↓↑ENT
 006:Toccata and Fugue
 007:Admiration
```
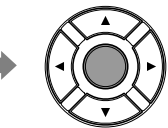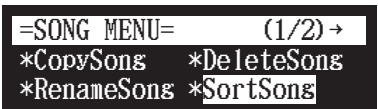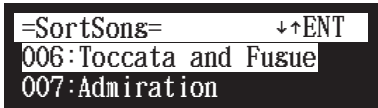
Media Management

2 **Press [▲] and [▼] to move the songs to the desired position.**
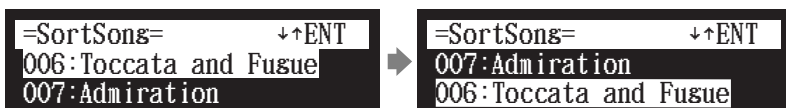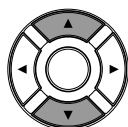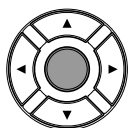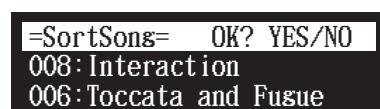
```
=SortSong=        ↓↑ENT        =SortSong=        ↓↑ENT
006:Toccata and Fugue          007:Admiration
007:Admiration                 006:Toccata and Fugue
```

3 **Press [ENTER].**

"OK?" flashes in the first line of the screen.

```
=SortSong=   OK? YES/NO
008:Interaction
006:Toccata and Fugue
```

4 **Press [+/YES] to rearrange, [–/NO] to cancel.**

After a while, the completion message appears.

```
=SortSong=                     =SortSong=          ANY
Executing...                   Completed.
                               Press any button.
```

Press any button to return to the song function menu.

Converting Song Format

Song Selection Screen [FUNC.] **Select "ConvertSong"**

SMF songs can be converted to E-SEQ songs and vice versa.

This function is available for songs in the album on [Memory], [USB1], [USB2] and [FromToPC].

1 **Select "ConvertSong" in the song function menu, then press [ENTER].**

```
=SONG MENU=        ← (2/2)
*AddToPList *ConvertSong
*Counter
```
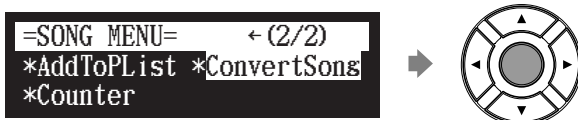
The ConvertSong screen appears.

```
=ConvertSong=      -+ENT
001:Song For Students
SMF0        →E-SEQ
```

English
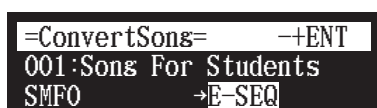
2 **Press [+/YES] and [–/NO] to select a song format.**

```
=ConvertSong=      -+ENT
001:Song For Students
SMF0         →Piano1
```

+/YES
–/NO

This following options are available:

Option	Song Format
E-SEQ	E-SEQ format
SMF0	Standard MIDI File format 0
SMF1	Standard MIDI File format 1
Piano1	Format to play on all Disklavier in correct tempo

3 **Press [ENTER].**

"OK?" flashes in the first line of the screen.

```
=ConvertSong=OK? YES/NO
001:Song For Students
SMF0         →Piano1
```
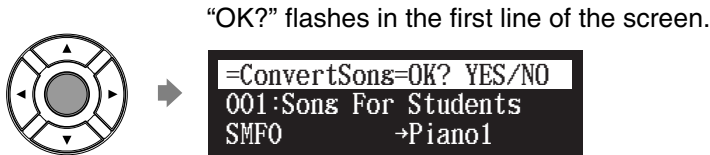
4 **Press [+/YES] to convert, [–/NO] to cancel.**

After a while, the completion message appears.

```
=ConvertSong=
Executing...
```

```
=ConvertSong=      ANY
Completed.
Press any button.
```

Press any button to return to the song function menu.

Changing the Counter Display

Song Selection Screen ▶ [FUNC.] ▶ **Select "Counter"**

The counter display of a song can be changed from "measures and beats"(metronome) to "minutes and seconds" or vice versa.

This function is available for songs in the album on [Memory], [USB1], [USB2] and [FromToPC].

Media Management

1 **Select "Counter" in the song function menu, then press [ENTER].**

```
=SONG MENU=      ← (2/2)
*AddToPList *ConvertSong
*Counter
```
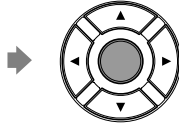
The CounterChange screen appears.

```
=CounterChange=     ENT
001:Song For Students
TIME       →METRONOME
```

TIME: minutes and seconds display
METRONOME: measures and beats display

2 **Press [ENTER].**

"OK?" flashes in the first line of the screen.
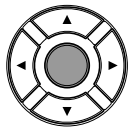
```
=CounterChange=OK?YES/NO
001:Song For Students
TIME       →METRONOME
```

3 **Press [+/YES] to change, [–/NO] to cancel.**

After a while, the completion message appears.

```
=CounterChange=
Executing...
```

```
=CounterChange=     ANY
Completed.
Press any button.
```

Press any button to return to the song function menu.

Managing Playlists

By creating lists of your favorite songs, you can program your Disklavier to automatically play back a series of songs. First create your own playlist by following the procedures below, then play back that list.

English

Adding Songs/Albums to the Playlist

Album or Song Selection Screen [FUNC.] **Select "AddToPList"**

This function is available only for songs/albums on [Memory].

1 **Select "AddToPList" in the album or song function menu, then press [ENTER].**

```
=ALBUM MENU=     ←(2/2)
*SortAlbum  *AddToPList
*Convert
```
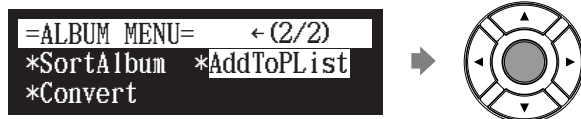
The AddToPList screen appears.

```
=AddToPList=     -+ENT
01:Beatles Selection
→(New Playlist)
```

2 **Select a destination playlist with [+/YES] and [–/NO].**

+/YES

–/NO

3 **Press [ENTER].**

"OK?" flashes in the first line of the screen.

```
=AddToPList= OK? YES/NO
01:Beatles Selection
→01:My Favorites
```
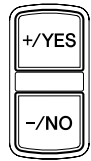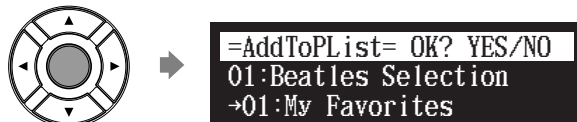
4 **Press [+/YES] to add, [–/NO] to cancel.**

After a while, the completion message appears.

```
=AddToPList=
Executing...
```

```
=AddToPList=     ANY
Completed.
Press any button.
```

Press any button to return to the album or song function menu.

Note: If "NewPlaylist" is selected in step 2, the title of added album is copied to that playlist.

Media Management

Deleting a Playlist

Album Selection Screen ▶ [FUNC.] ▶ **Select "DeleteList"** ▶

You can delete the playlists which already registered.

1 **Select "DeleteList" in the album function menu, then press [ENTER].**

```
=ALBUM MENU=    (1/1)
*DeleteList *NewList
*RenameList
```

➡
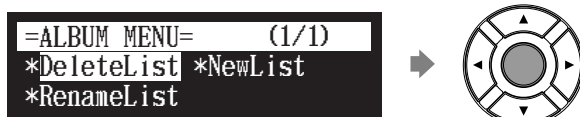
The DeleteList screen appears.

```
=DeleteList=      ENT
02:My Best Collection
```

2 **Press [ENTER].**

OK?" flashes in the first line of the screen.

➡

```
=DeleteList= OK? YES/NO
02:My Best Collection
```
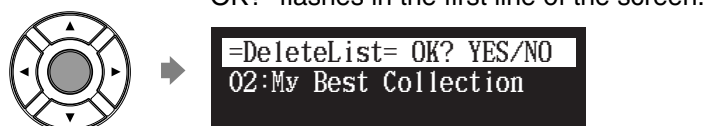
3 **Press [+/YES] to delete the playlist, [–/NO] to cancel.**

After a while, the completion message appears.

```
=DeleteList=
Executing...
```

➡

```
=DeleteList=      ANY
Completed.
Press any button.
```

Press any button to return to the album function menu.

Creating a New Playlist

Album Selection Screen ▸ [FUNC.] ▸ **Select "NewList"**

You can create a new playlist for playing back your favorite songs in your
selected order.

1 **Select "NewList" in the album function menu, then press
[ENTER].**

```
=ALBUM MENU=      (1/1)
*DeleteList *NewList
*RenameList
```
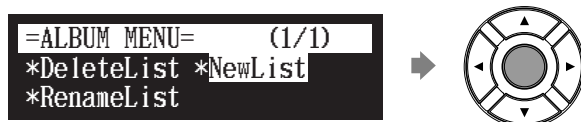
The NewList screen appears.
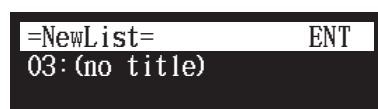
```
=NewList=          ENT
03:(no title)
```

2 **Press [ENTER].**

The playlist title editing screen appears.

```
=NewList=       ←→–+ENT
▌
```

3 **Use [◂] and [▸] to move the cursor.**

4 **Select characters with [+/YES] and [–/NO] or the keyboard.**

```
=NewList=       ←→–+ENT
My Best
```

You can enter up to 64 characters.

☞ To enter characters using the
keyboard, see "Keyboard
Character Map" on page 44.

5 **Press [ENTER].**

"OK?" flashes in the first line of the screen.

```
=NewList=    OK? YES/NO
03:My Best Collection
```
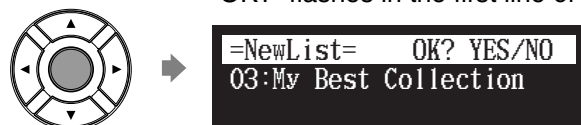
Media Management

6 **Press [+/YES] to create a new playlist, [–/NO] to cancel.**

After a while, the completion
message appears.

```
=NewList=
Executing...
```

```
=NewList=         ANY
Completed.
Press any button.
```

Press any button to return to the album function menu.

Renaming a Playlist

Album Selection Screen [FUNC.] **Select "RenameList"**

You can rename a playlist which already registered.

1 **Select "RenameList" in the album function menu, then press [ENTER].**

```
=ALBUM MENU=      (1/1)
*DeleteList *NewList
*RenameList
```

The RenameList screen appears.
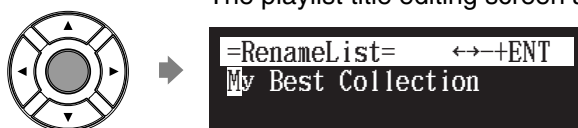
```
=RenameList=      ENT
My Best Collection
```

2 **Press [ENTER].**

The playlist title editing screen appears.

```
=RenameList=    ←→–+ENT
My Best Collection
```

3 **Use [◄] and [►] to move the cursor.**

4 **Select characters with [+/YES] and [–/NO] or the keyboard.**

```
=RenameList=    ←→–+ENT
My Best Hit Collection
```

You can enter up to 64 characters.

☞ To enter characters using the keyboard, see "Keyboard Character Map" on page 44.

5 **Press [ENTER].**

"OK?" flashes in the first line of the screen.

```
=RenameList= OK? YES/NO
My Best Hit Collection
```

6 **Press [+/YES] to rename, [–/NO] to cancel.**

After a while, the completion message appears.

```
=RenameList=
Executing...
```
➡
```
=RenameList=          ANY
Completed.
Press any button.
```
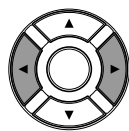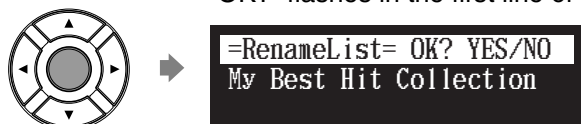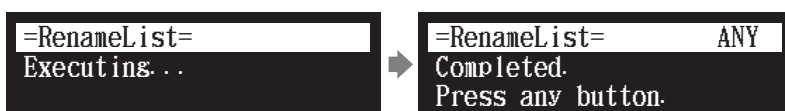
Press any button to return to the album function menu.

Managing Media

Media Selection Screen   **[FUNC.]**

You can use the media function menu for copying or deleting entire contents inside the media.

) To select a media, see Chapter 3 "Basic Song Playback – Selecting Medium and Their Contents" on page 17.

1 **Press [FUNC.] in the media selection screen.**

The media function menu screen appears.

FUNC.
⃝ ➡
```
=MEDIA MENU=
*CopyAll    *DeleteAll
```

2 **Select a desired function with the cursor buttons ([◄] [►] [▲] [▼]), then press [ENTER].**

```
=MEDIA MENU=
*CopyAll    *DeleteAll
```

The following functions are available:
- CopyAll
- DeleteAll
- Format
- Refresh

Note: Available functions vary depending on the medium you selected.

Note: If there is no available functions, the media function menu screen does not appears although pressing [FUNC.].

Media Management

Making Copies of the Entire Contents in a Medium

Media Selection Screen   [FUNC.]   **Select "CopyAll"**

You can copy the entire contents in a medium to the another medium.

The function is available for [Memory], [CD](CD-ROM), [USB1], [USB2], then [FromToPC].

☞ To select a medium, see Chapter 3 "Basic Song Playback – Selecting Medium and Their Contents" on page 17.

1 **Select "CopyAll" in the media function menu, then press [ENTER].**

```
=MEDIA MENU=
*CopyAll    *DeleteAll
```

The CopyAll screen appears.

```
=CopyAll=         -+ENT
USB1    →Memory
```

2 **Select a destination medium with [+/YES] and [–/NO].**

+/YES

–/NO

```
=CopyAll=         -+ENT
USB1    →Memory
```

3 **Press [ENTER].**

"OK?" flashes in the first line of the screen.

```
=CopyAll=    OK? YES/NO
USB1    →Memory
```

4 **Press [+/YES] to make a copy, [–/NO] to cancel.**

After a while, the completion message appears.

```
=CopyAll=
Executing...
```

```
=CopyAll=         ANY
Completed.
Press any button.
```
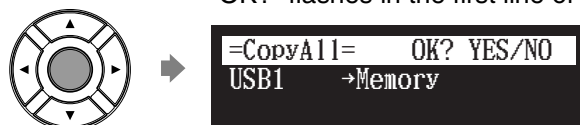
Press any button to return to the media function menu.

Deleting the Entire Contents in a Medium

Media Selection Screen ▶ [FUNC.] ▶ **Select "DeleteAll"**

You can delete the entire contents in a medium.

This function is available for [Memory], [USB1], [USB2] and [FromToPC].

English

1 **Select "DeleteAll" in the media function menu, then press [ENTER].**

```
=MEDIA MENU=
*CopyAll    *DeleteAll
```

➡

The DeleteAll screen appears.

```
=DeleteAll=        ENT
Media=Memory
```

2 **Press [ENTER].**

"OK?" flashes in the first line of the screen.

➡

```
=DeleteAll= OK? YES/NO
Media=Memory
```
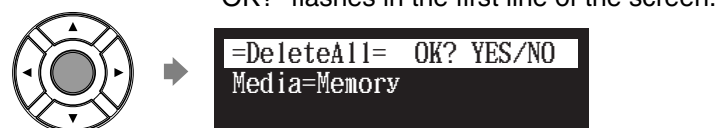
3 **Press [+/YES] to delete, [–/NO] to cancel.**

After a while, the completion message appears.

```
=DeleteAll=
Executing...
```

➡

```
=DeleteAll=        ANY
Completed.
Press any button.
```

Press any button to return to the media function menu.

Media Management

Copying Song File from a Personal Computer to the Disklavier

You can copy song files from a Windows or Macintosh computer to a special folder on the Disklavier called [FromToPC] and then play them on the Disklavier.

1 **Connect the control unit to a LAN (local area network) to which a personal computer with a song file is also connected.**

Personal computer

Router/hub

LAN

Control unit
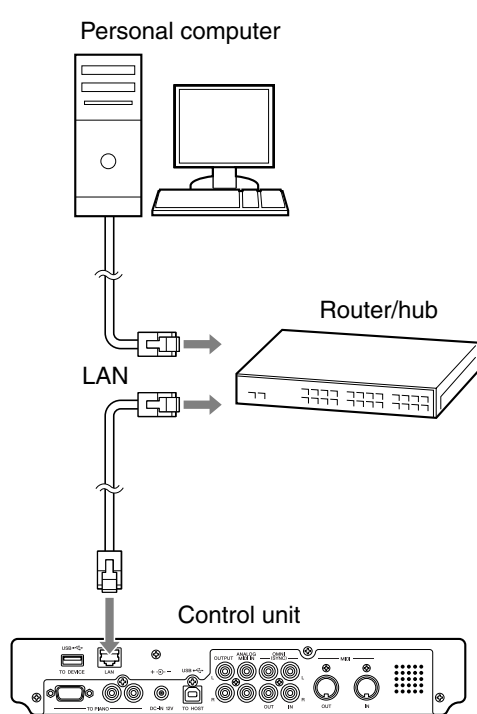
For Windows

2 **On the computer screen, click [Start] and then open [My Network Places].**

3 **Open [Dkv******] and confirm that the [FromToPC] folder is shown under that.**

4 **Copy the desired song files to the [FromToPC] folder.**

Note: Copy-protected files, such as PianoSoft and PianoSoft·Plus songs, cannot be copied to the [FromToPC] folder.

Note: Do not copy the files other than Disklavier song files.

Note: It is necessary to configure the Disklavier properly for network communications by enabling it to get a DHCP IP address automatically (recommended) or by assigning an appropriate address manually. The procedure is the same as the one used for setting up the Disklavier for Internet communications. Please follow the instructions on page 85 for "Setting the Disklavier for the Internet Settings."

Note: For information about configuring a personal computer for network communications, please refer to the documentation that came with the computer.

Note: [Dkv******] differs depending on the model.

Note: The folder or icon name differs depending on the version of your operating system.

For Mac OS X 10.3 or later

2 **Click the [Finder] icon in the dock and then open [Network].**

3 **Connect the computer to the Disklavier.**

Open [Dkv] and click the [Dkv******] icon inside to start the connection process. In the first window that comes up, select [FromToPC] from the mini-menu within the window and click [OK]. Click [OK] in the next window that comes up to complete the connection process. At this point, there should be the [FromToPC] icon on the left side of the window (beneath [Network]).

4 **Copy the desired song files to the [FromToPC] folder on the left side of the finder window.**

5 **Refresh the contents in the folder.**

See *Chapter 8 "Media Management – Refreshing the Contents in [FromToPC]" on page 78*.

Note: [Dkv******] differs depending on the model.

Note: If the user ID and password are required during the process, enter any name for the ID and leave the space for the password blank.

Note: Do not access the [FromToPC] folder while the Disklavier is engaged in another operation (such as file copying or deleting).

English

■ **For Windows only**

In case that you cannot find the [Dkv******] icon

1. Click [Entire Network] under [Other Places] in the left side menu of the [My Network Places] window.

2. Double-click the [Microsoft Windows Network] icon to open it.

3. Double-click the [Dkv] icon to open it.

4. Double-click the [Disklavier ******] icon to open it and confirm that the [FromToPC] folder is shown under that.

5. Copy the desired song files to the [FromToPC] folder.

Media Management

Refreshing the Contents in [FromToPC]

Select the [FromToPC] [FUNC.] **Select "Refresh"**

You must refresh the contents in the [FromToPC] folder after copying song files from a personal computer, in order to play them on the Disklavier.

1 **Select "Refresh" in the media function menu, then press [ENTER].**

```
=MEDIA MENU=
*CopyAll      *DeleteAll
*Refresh
```

The Refresh screen appears.

```
=Refresh=            ENT
Media=FromToPC
```

2 **Press [ENTER].**

"OK?" flashes in the first line of the screen.

```
=Refresh=    OK? YES/NO
Media=FromToPC
```
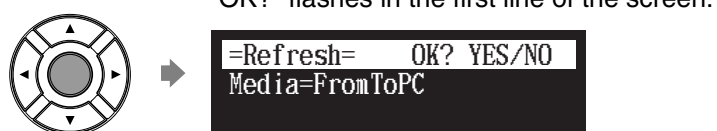
3 **Press [+/YES] to refresh, [–/NO] to cancel.**

After a while, the completion message appears.

```
=Refresh=
Executing...
```
➡
```
=Refresh=            ANY
Completed.
Press any button.
```

Press any button to return to the media function menu.

Formatting the Floppy Disk (Optional)

Select the [FD] ▶ [FUNC.] ▶ **Select "Format"** ▶

In the case of using the unformatted floppy disk on the floppy drive (optional) or deleting the entire contents on the floppy disk, format the floppy disk.

1 **Insert a floppy disk to the floppy drive (optional).**

2 **Select "Format" in the media function menu, then press [ENTER].**

```
=MEDIA MENU=
*CopyAll    *Format
```

The Format screen appears.

```
=Format=        ENT
Media=FD
```

3 **Press [ENTER].**

"OK?" flashes in the first line of the screen.

```
=Format=   OK? YES/NO
Media=FD
```

4 **Press [+/YES] to format, [–/NO] to cancel.**

After a while, the completion message appears.

```
=Format=
Executing...
```
➡
```
=Format=        ANY
Completed.
Press any button.
```

Press any button to return to the media function menu.

Important: Formatting a floppy disk erases all data that stored in the disk, so make sure that the disk you are going to format does not contain the data you want to keep.

☞ To select a medium, see Chapter 3 "Basic Song Playback – Selecting Medium and Their Contents" on page 17.

Note: If you are formatting a floppy disk, make sure that the floppy disk's erasure protection tab is set to "unprotected."

English

Media Management

■ Floppy Disk Accidental Erasure Protection

Floppy disks have an erasure protection tab located on the reverse side of the disk in the bottom right-hand corner. When formatting a disk, make sure that its erasure protection tab is set to "unprotected."

Protected
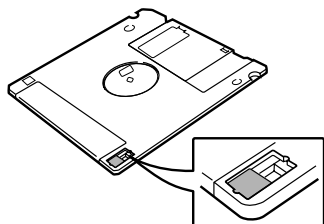
When the tab window is open, formatting and recording are not possible.

Unprotected
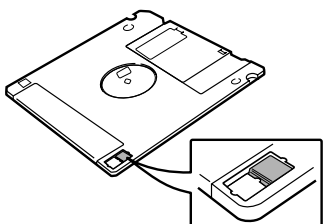
When the tab window is closed, formatting and recording are possible.

Making Backups of Songs

[SYSTEM] **Select "Backup"**

You can make a backup copy of the songs and playlists. In order to protect your valuable music data, Yamaha strongly recommends that you backup your memory on regular basis.

1 **Connect an external USB HDD to the USB port on the control unit.**

2 **Press [SYSTEM].**

The system menu screen appears.

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

Note: Be sure to use a USB HDD formatted in FAT32 file system in the following procedure.

Note: Make sure that the USB HDD has enough space to save the backup data.

3 **Select "Backup" with the cursor buttons ([◄] [►] [▲] [▼]), then press [ENTER].**

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

The Backup screen appears.

```
=Backup=           ENT
Make a backup copy to
an external USB HDD.
```

4 **Press [ENTER].**

"OK?" flashes in the first line of the screen.
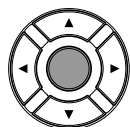
```
=Backup=    OK? YES/NO
Backup song data?
```

5 **Press [+/YES] to make a backup, [–/NO] to cancel.**

After a while, the completion message appears.

```
=Backup=
Executing...
DON'T REMOVE USB HDD!
```
➡
```
=Backup=           ANY
Completed.
Press any button.
```

Press any button to return to the system menu.

English

Restoring the Backups

[SYSTEM] Select "Restore"

You can restore the current condition of the internal memory to the previous condition that you made a backup copy.

1 **Connect an external USB HDD which you made backup last time to the USB port on the control unit.**

2 **Press [SYSTEM].**

The system menu screen appears.

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

☞ To make a backup, see Chapter 8 "Media Management – Making Backups of Songs" on page 80.

Media Management

3 **Select "Restore" with the cursor buttons ([◄] [►] [▲]**
[▼]), then press [ENTER].

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

The Restore screen appears.

```
=Restore=        ENT
Restore song data from
USB HDD.
```

4 **Press [ENTER].**

"OK?" flashes in the first line of the screen.
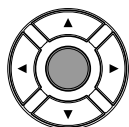
```
=Restore=   OK? YES/NO
Restore this data?
Date:2007-10-22 15:42:00
```

5 **Press [+/YES] to restore, [–/NO] to cancel.**

After a while, the completion
message appears.

```
=Restore=
Executing...
DON'T REMOVE USB HDD!
```

```
=Restore=        ANY
Completed.
Press any button.
```

Press any button to return to the system menu.

Chapter 9

Internet Direct Connection (IDC) Service

What is Internet Direct Connection (IDC)?

Internet Direct Connection (IDC) is a feature that allows you to connect your Disklavier directly to the Internet. Internet Direct Connection users are able to listen to a streaming broadcast (DisklavierRadio), and receive valuable information such as product updates (Network Update). Your Disklavier can be upgraded remotely as new technologies and services are developed through the IDC service.

Obtaining an ID and Password for the IDC Service (IDC Registration)

To use the IDC service, initial registration is required using an Internet-connected computer.

Please register at the following website: *https:// music.yamaha.com/ serviceRegistration.html*

Note: If you have already registered for the IDC service with any other instrument (such as the Clavinova), you do not need to register again. You can use your ID and password obtained through that registration.

Connecting the Disklavier to the Internet

You can connect the Disklavier to a full-time online Internet connection (ADSL, optical fiber, cable Internet, etc.) via a router or a modem equipped with a router.

■ Preparations

• To use the Internet connection, you will first need to subscribe to an Internet service or provider.

• Use a computer to obtain and configure Internet service. You cannot obtain Internet service or configure router settings on a local area network using the Disklavier itself.

• Before connecting the LAN cable, make sure to turn off (or shut down) the Disklavier.

Internet Direct Connection (IDC) Service

■ Connecting the I/O Center to the Internet

Connection example 1:
Using a modem with router function

Modem
(with router function)

Other device
(such as computer)

LAN
cable

Control unit
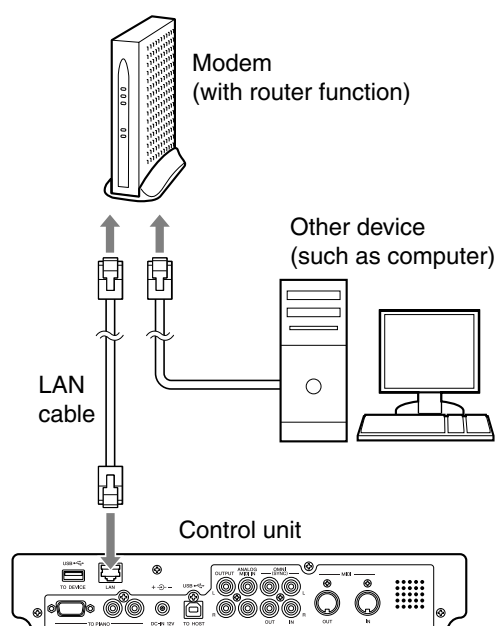
Connection example 2:
Using a modem without router function

Modem
(without router
function)

Router/hub

Other device
(such as computer)

LAN
cable

Control unit
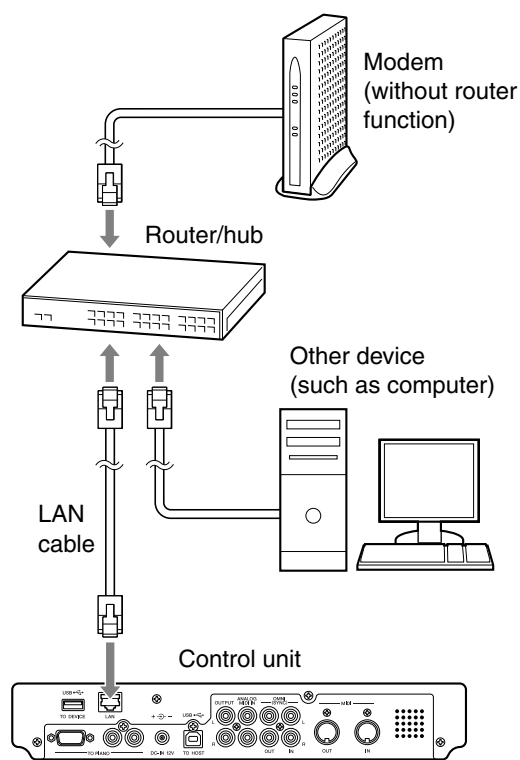
Note: Depending on the contract with your Internet provider, you may not be able to connect two or more devices (for example, a computer and the Disklavier) to the Internet. Please check your contract or contact your Internet provider for further information.

Note: Some types of modems (such as ADSL modems or cable modems) have multiple ports for connecting two or more devices (such as computer, musical instrument, etc.). If your modems have only one port, an optional router or hub is required in order to connect several devices simultaneously.

For further information on the Internet connection (only a wired LAN connection is supported), visit the Yamaha Disklavier website:

http://www.yamaha.com/disklavier/
(for US customers)

http://www.yamaha.ca/content/piano/products/disklavierpianos/
(for Canadian customers)

http://www.yamaha-europe.com/yamaha_europe/english_master/
(for European customers; Check the Disklavier website)

http://www.yamaha.com.au/au/
(for Australian customers; Check the Disklavier website)

English

■ Notes on Network Security

The Disklavier E3 attempts to achieve a balance between security and usability in its network implementation. However, a determined hacker may be able to defeat these security measures and utilize the network of the purchaser in an unauthorized manner. Since each network is different, only the purchaser can determine whether the security measures discussed here will adequately protect their network.

The purchaser acknowledges that connection to the Internet and use of the Disklavier E3 Internet features is done at the risk of the purchaser. In no event shall Yamaha, its subsidiaries or Yamaha's and/or its subsidiaries' directors, officers, or employees be responsible for unauthorized access, loss or alteration of the data of the purchaser or be liable for any damage from intrusions.

Setting the Disklavier for the Internet Settings

[SETUP] ▸ Select "Network" ▸

You can change various settings related to the Internet connection. In most cases, you do not have to change the default factory settings.

Use DHCP:

Select the method to determine several addresses. If your router has DHCP server function, we recommend that you to select "DHCP" or "DHCP+DNS."

DNS1/DNS2:

Enter the address of the primary and secondary DNS server. These settings must be made when Use DHCP is set to "DHCP+DNS" or "MANUAL."

IPAddr./SubMask/Gateway:

Enter the address of the I/O Center, subnet mask and gateway server. These settings must be made when Use DHCP is set to "MANUAL."

☞ To use the Internet connection, inquire of your Internet service provider.

Note: For information about DNS server address, IP address, subnet mask and gateway server address, inquire of your internet service provider.

Internet Direct Connection (IDC) Service

Proxy/Proxy Port:

Enter the name and the port number for the proxy server. These settings are necessary only when a proxy server is located in your local network.

1 **Press [SETUP].**

The setup menu screen appears.

SETUP ➡ =SETUP MENU=　　(1/2)→
　　　　　*TimerPlay　*AudioI/O
　　　　　*MIDI　　　　*M-tune

2 **Select "Network" with the cursor buttons ([◄] [►] [▲] [▼]), then press [ENTER].**

➡ =SETUP MENU=　　←(2/2)
　　　*Network　*Playback
　　　*Reverb　　*Reset

The network setting screen appears.
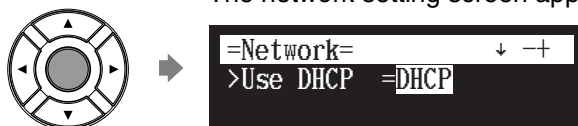
➡ =Network=　　　　↓ −+
　　　>Use DHCP　=DHCP

3 **Select a desired option with the cursor buttons ([◄] [►] [▲] [▼]), then press [+/YES] and [–/NO] to change setting.**

➡ +/YES
　　−/NO
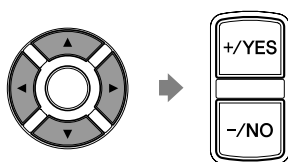
4 **Press [ENTER] to complete the operation.**
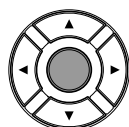
Accessing the Internet

[INTERNET] ▶

Once you have established an IDC account and successfully connected your Disklavier to the internet, you can access a special Disklavier website where you can access the DisklavierRadio, and download software updates.

D-Radio:

Select this to listen to streaming broadcasts of music, with many channels of music content. You can enjoy listening to piano performances that play continuously.
See Chapter 3 "Basic Song Playback – Listening to the DisklavierRadio" on page 25.

MyAccount:

Select this to log in to the IDC service. You can also refer to the help information from this option.

Update:

Select this to update the Disklavier using Internet connection.

1 **Press [INTERNET].**

The Internet menu screen appears.

INTERNET

➡

```
=INTERNET=        (1/1)
*D-Radio     *MyAccount
*Update
```

2 **Select a desired menu with the cursor buttons ([◄] [►] [▲] [▼]), then press [ENTER].**

➡
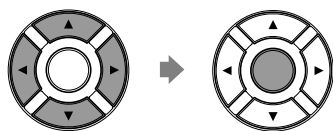
Perform operations on the screen that appears.

English

Internet Direct Connection (IDC) Service

Checking Your Account Information

[INTERNET] **Select "MyAccount"**

You can confirm your current account information of IDC service.

1 Press [INTERNET].

The Internet menu screen appears.

INTERNET

➡

```
=Internet=        (1/1)
*D-Radio    *MyAccount
*Update
```

2 Select "MyAccount" with the cursor buttons ([◄] [►] [▲] [▼]), then press [ENTER].

➡

```
=INTERNET=        (1/1)
*D-Radio    *MyAccount
*Update
```

The my account screen appears.

➡

```
=MyAccount=      ↓↑ENT
*Login
*Help
```
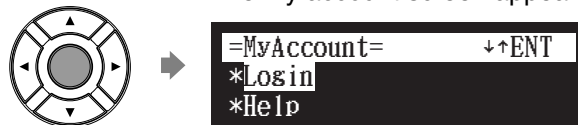
Logging out from the IDC Service

XXXXXXXXXXXXXXXX **XXXXXXX**

If you wish to use another IDC account or prevent the current account from being used by others, you must first log out from the IDC service.

Updating the Disklavier Using the Internet

[INTERNET] **Select "Update"**

You can download and then install update firmware using the IDC service.

1 Press [INTERNET].

The Internet menu screen appears.

INTERNET ▶
```
=INTERNET=        (1/1)
*D-Radio    *MyAccount
*Update
```

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

▶
```
=INTERNET=        (1/1)
*D-Radio    *MyAccount
*Update
```

The update screen appears.

▶
```
=Update=          ↓↑ENT
V1.00      → V1.01
*Update    *ReleaseNote→
```
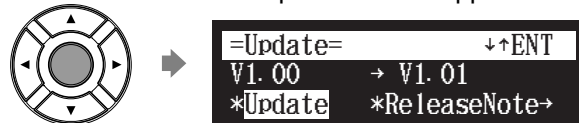
Initializing Internet Settings

XXXXXXXXXXXXXXXXX **XXXXXXX**

If you want to initialize the Internet settings, first you must reset the whole system of the Disklavier.
(See Chapter 11 "Other Settings – Resetting the Disklavier" on page 99.)

English

10 Enhancing the Disklavier by Hooking Up Other Devices

Hooking Up AV Equipment

If you connect the Disklavier to an audio system, you can hear the sound played/played back on the Disklavier from the connected audio system, and the sound played back on the connected audio system from the Disklavier.

AV amplifier   CD player, etc.

To audio   To audio
inputs   outputs

PCA cord   PCA cord
(not supplied)   (not supplied)

Control unit

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Chapter
10

Enhancing the Disklavier by Hooking Up Other Devices
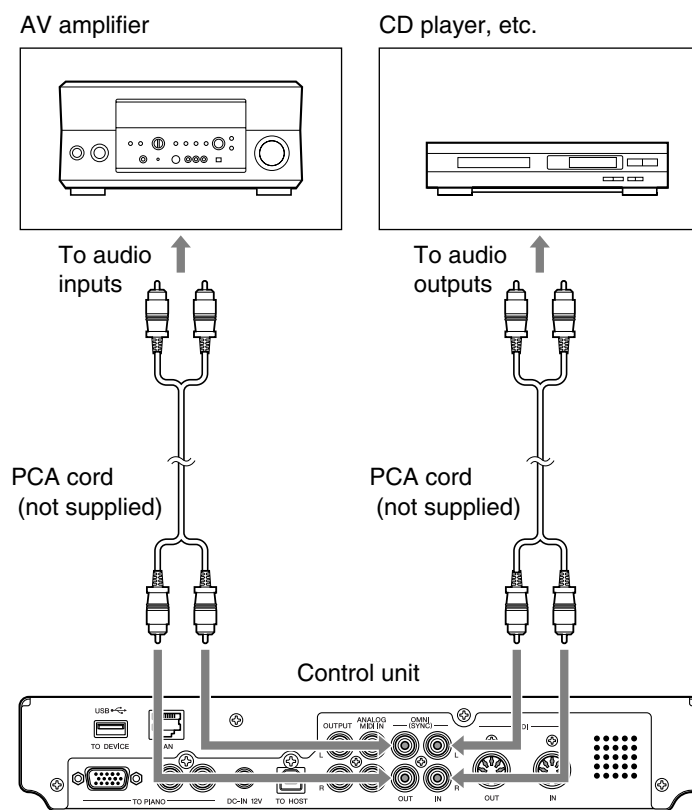
Setting Up the Disklavier for Audio Data Reception/Transmission

[SETUP] Select "Audio I/O"

You can select the kind of the incoming/going out audio signals. The
following options should be set up in advance.

OMNI IN

Selects the appropriate option to match the incoming data input to the
OMNI (SYNC) IN jacks.

Audio: Select this when you play back an audio software on the
connected CD player, etc. and reproduce the sound from the
monitor speakers*.

Analog MIDI:
Select this when you play back PianoSoft·PlusAudio song.

OFF: Select this when you cancel the data reception from the OMNI
(SYNC) IN jacks.

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

■ OMNI IN Vol

Adjust the volume of the incoming audio signals to the OMNI (SYNC) IN
jacks. The volume can be set in a range of 000 to 127.

■ OMNI OUT

Selects the desired data to be output from the OMNI (SYNC) OUT jacks.

Output: Select this when you output the same audio signals as the
ones for the monitor speakers*.

OFF: Select this when you cancel the data transmission from the
OMNI (SYNC) OUT jacks.

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

■ OMNI OUT Vol

Adjust the volume of the outgoing audio signals to the OMNI (SYNC) OUT
jacks. The volume can be set in a range of 000 to 127, or to "M-Volume."

When you set to "M-Volume", the OMNI OUT volume works with the main
volume.

Note: In the OMNI OUT volume
parameter, the following of
127 is "M-Volume."

OMNI OUT
volume parameter

[+/YES] ↑ 000
⟨
127
[–/NO] ↓ M-Volume

■ ANALOG MIDI IN Vol

Adjust the volume of the incoming audio signals to the ANALOG MIDI IN
jacks. The volume can be set in a range of 000 to 127.

English

91

Enhancing the Disklavier by Hooking Up Other Devices

1 **Press [SETUP].**

The setup menu screen appears.

SETUP

```
=SETUP MENU=      (1/2)→
*TimerPlay  *AudioI/O
*MIDI       *M-tune
```

2 **Select "Audio I/O" with the cursor buttons ([◄] [►] [▲] [▼]), then press [ENTER].**

```
=SETUP MENU=      (1/2)→
*TimerPlay  *AudioI/O
*MIDI       *M-tune
```

The audio I/O setting screen appears.
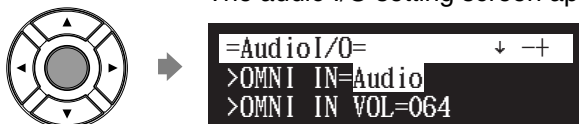
```
=AudioI/O=        ↓ −+
>OMNI IN=Audio
>OMNI IN VOL=064
```

3 **Select a desired option with the cursor buttons ([▲] [▼]), then press [+/YES] and [–/NO] to change setting.**

+/YES

−/NO
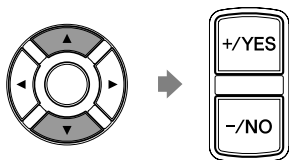
4 **Press [ENTER] to complete the operation.**
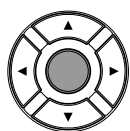
Hooking Up MIDI Devices

MIDI (an acronym for Musical Instrument Digital Interface) allows electronic device (synthesizers, etc.) to interact and work in synchronization with other MIDI compatible device. The Disklavier enables you to enjoy a variety of MIDI features by connecting a MIDI device or computer to the Disklavier's control unit.

MIDI device (sequencer, synthesizer, etc.) or computer

To USB port   To MIDI input   To MIDI output

USB cable (not supplied)   MIDI cable (not supplied)

Control unit
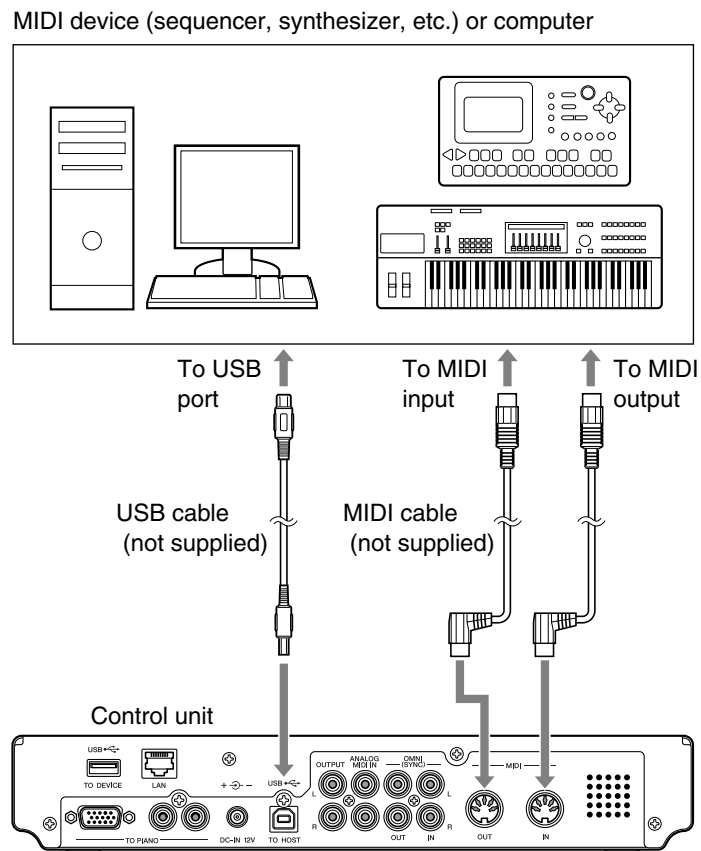
Note: When you use the USB connection, it is required to install the USB driver to the connected device. In such a case, visit the following website and download the driver.
http://www.global.yamaha. com/download/usb_midi/

Note: Be sure to use the commercially available MIDI cable with the L-shaped connector on the control unit end.

English

Setting Up the Disklavier for MIDI Data Reception

[SETUP] Select "MIDI"

The Disklavier can play back the MIDI data being received from the connected MIDI device as well as the software loaded or stored in the Disklavier itself. The following options should be set up in advance.

■ MIDI IN Port

Selects the terminal/port used for the data reception.

MIDI: Select this when the MIDI device is connected to MIDI IN terminal.

USB: Select this when the MIDI device is connected to USB port.

Enhancing the Disklavier by Hooking Up Other Devices

■ **Piano Rcv Ch**

The MIDI data consists of multi channels that are respectively assigned to a certain instrument's part. This option assigns the desired channel(s) to the piano part(s) that is (are) played back on the Disklavier's keyboard.

01 thru 16: Select the desired channel to which you assign the piano part.

1+2: Select this when the "01" and "02" channels are assigned to the piano parts.

Prg: Select the smallest number channel assigned to the piano group voice (see page 00) to be played on the Disklavier.

Prg(All): Select all channels assigned to the piano group voice (see page 00) to be played on the Disklavier.

■ **MIDI IN Delay**

When the Disklavier receives two kinds of data (strong and weak note) at the same time, the weak note sounds a little bit later than the strong one due to the characteristics of the Disklavier's mechanism. To eliminate this delay in the sound reproduction and the notes are sounded in accurate timing at 500 millisecond after the data reception, usually a delay is applied to the incoming MIDI data.

ON: Select this when you apply this delay to the incoming MIDI data.

OFF: Select this when you do not apply this delay.

1 **Press [SETUP].**

The setup menu screen appears.

SETUP

```
=SETUP MENU=      (1/2)→
*TimerPlay  *AudioI/O
*MIDI       *M-tune
```

2 **Select "MIDI" with the cursor buttons ([◄] [►] [▲] [▼]), then press [ENTER].**

```
=SETUP MENU=      (1/2)→
*TimerPlay  *AudioI/O
*MIDI       *M-tune
```

The MIDI setting screen appears.

```
=MIDI=             ↓ -+
>MIDI IN Port=USB
>Piano Rcv Ch=01
```

English

3 **Select a desired option with the cursor buttons ([▲] [▼]),
then press [+/YES] and [–/NO] to change setting.**
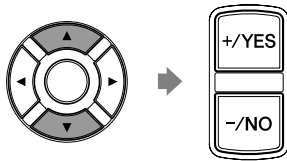
4 **Press [ENTER] to complete the operation.**
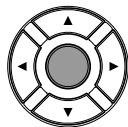
Setting Up the Disklavier for MIDI Data Transmission

[SETUP] ▶ **Select "MIDI"** ▶

The Disklavier can transmit the information of piano playing/ensemble part
playback on the Disklavier as the MIDI data to the connected MIDI device
to reproduce the sound with its sound generator, etc. or to record the MIDI
data. The following options should be set up in advance.

■ MIDI OUT Port

Selects the terminal/port used for the data transmission.

MIDI: Select this when the MIDI device is connected to MIDI OUT
terminal.

USB: Select this when the MIDI device is connected to USB port.

■ MIDI OUT

Selects one of the following parts to be transmitted to the connected MIDI
device.

ESBL Out: Select this when you transmit the ensemble part played back
on the Disklavier.

KBD Out: Select this when you transmit the piano part played on the
Disklavier.

1 **Press [SETUP].**

The setup menu screen appears.

SETUP

```
=SETUP MENU=      (1/2)→
*TimerPlay  *AudioI/O
*MIDI       *M-tune
```

Enhancing the Disklavier by Hooking Up Other Devices

2 **Select "MIDI" with the cursor buttons ([◄] [►] [▲] [▼]), then press [ENTER].**

```
=SETUP MENU=      (1/2) →
*TimerPlay   *AudioI/O
*MIDI        *M-tune
```

The MIDI setting screen appears.

```
=MIDI=            ↓ -+
>MIDI IN Port=USB
>Piano Rcv Ch=01
```

3 **Select a desired option with the cursor buttons ([▲] [▼]), then press [+/YES] and [–/NO] to change setting.**

+/YES

–/NO
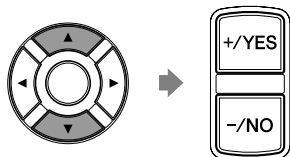
4 **Press [ENTER] to complete the operation.**

Setting Up the Disklavier for Keyboard Playing Data Transmission

[SETUP] **Select "MIDI"**

Besides the MIDI OUT options, more detailed setups for the keyboard playing data transmission are available. The following options should be set up in advance.

■ KBD OUT CH

Assigns the piano part to the desired channels.

01 thru 16: Select the desired channel to which you assign the piano part.

English

■ Local

Selects whether you reproduce or not the piano part playing with the Disklavier's internal tone generator.

ON: Select this when you reproduce the piano part with the Disklavier's internal tone generator.

OFF: Select this when you reproduce the song (played on the Disklavier) on the external MIDI device. This option inactivates the internal tone generator to prevent both the internal and external tone generator sound at the same time.

1 **Press [SETUP].**

The setup menu screen appears.

SETUP

```
=SETUP MENU=      (1/2)→
*TimerPlay  *AudioI/O
*MIDI       *M-tune
```

2 **Select "MIDI" with the cursor buttons ([◄] [►] [▲] [▼]), then press [ENTER].**

```
=SETUP MENU=      (1/2)→
*TimerPlay  *AudioI/O
*MIDI       *M-tune
```

The MIDI setting screen appears.

```
=MIDI=            ↓ -+
>MIDI IN Port=USB
>Piano Rcv Ch=01
```

3 **Select a desired option with the cursor buttons ([▲] [▼]), then press [+/YES] and [–/NO] to change setting.**

+/YES

–/NO
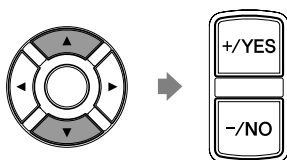
4 **Press [ENTER] to complete the operation.**
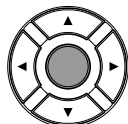
Chapter 11 Other Settings

Tuning the Tone Generator (TG Master Tune)

[SETUP] Select "M–Tune"

The internal XG tone generator has already been tuned to match the acoustic piano (A3=440 Hz). However, you can re-tune the internal XG tone generator in accordance with the pitch of the acoustic piano by following the procedure below.

1 Press [SETUP].

The setup menu screen appears.

SETUP

```
=SETUP MENU=     (1/2)→
*TimerPlay  *AudioI/O
*MIDI       *M-tune
```

2 Select "M–Tune" with the cursor buttons ([◄] [►] [▲] [▼]), then press [ENTER].

```
=SETUP MENU=     (1/2)→
*TimerPlay  *AudioI/O
*MIDI       *M-tune
```

The TG Master Tune setting screen appears.

```
=TG Master Tune=    -+
>Tune= 000cent
```

3 Playing the keyboard, press [+/YES] and [–/NO] to tune the pitch of the internal XG tone generator.

+/YES

–/NO

The same note will sound simultaneously on the XG tone generator's digital piano and on the acoustic piano as soon as you play the keyboard.
The pitch of the internal XG tone generator can be adjusted in a range of –50 cent to +50 cent.

4 **Press [ENTER] to complete the operation.**
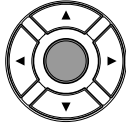
Note: To reset to the default factory pitch settings, see Chapter 11 "Other Settings – Resetting the Disklavier" on page 99.

Resetting the Disklavier

[SETUP] **Select "Reset"**

If you want to return your Disklavier to its initial factory, follow the procedure below.

1 **Press [SETUP].**

The setup menu screen appears.

SETUP ➡
```
=SETUP MENU=     (1/2)→
*TimerPlay  *AudioI/O
*MIDI       *M-tune
```

Important:
If you reset your Disklavier, depends upon the option what you select, you may lose all parameters or all data in the internal memory, or both of these. For normal use, you do not have to reset. Necessarily case you have to reset your Disklavier, Yamaha strongly recommends that you backup your songs in the internal memory. However, you cannot backup your various parameter settings.

☞ To make a backup copy of the songs which are in the internal memory, see Chapter 8 "Media Management – Making Backups of Songs" on page 80.

Note: The parameters contain the metronome setting, the clock setting, the timer play setting and the Internet setting.

2 **Select "Reset" with the cursor buttons ([◄] [►] [▲] [▼]), then press [ENTER].**

➡
```
=SETUP MENU=    ←(2/2)
*Network    *Playback
*Reverb     *Reset
```

The reset screen appears.

➡
```
=Reset=        –+ENT
>Reset=Parameter
```
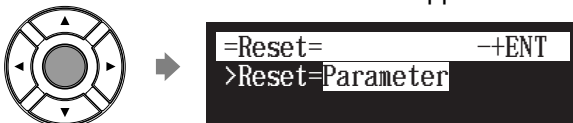
3 **Press [+/YES] and [–/NO] to select the option that you want to reset.**

+/YES

–/NO
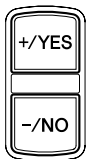
Option	Description
Parameter	Reset all parameters.
Memory	Reset the internal memory.
Factory Init.	Reset the Disklavier to its initial factory setting.

English

Other Settings

4 **Press [ENTER].**
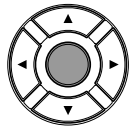
"OK?" flashes in the first line of the screen.

```
=Reset=        OK? YES/NO
>Reset=Factory Init.
```

5 **Press [+/YES] to reset, [–/NO] to cancel.**

After a while, the completion message appears.

```
=Reset=
Executing...
```

```
=Reset=           ANY
Completed.
Press any button.
```

Press any button to return to the system menu screen.

Diagnosing the Disklavier (Maintenance Mode)

[SYSTEM] ▶ **Select "Maintenance"**

The piano diagnostics may be required as the occasion demands. In such a case, follow the instructions of your Yamaha dealer and perform the following procedure.

1 **Press [SYSTEM].**

The system menu screen appears.

SYSTEM

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

2 **Select "Maintenance" with the cursor buttons ([◄] [►] [▲] [▼]), then press [ENTER].**
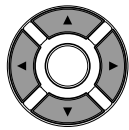
```
=SYSTEM MENU=   ←(2/2)
*Maintenance
```

The maintenance screen appears.

```
Maintenance Mode

          (ENTER)
```

English
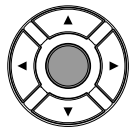
3 Press [ENTER].

The maintenance options appears.

1. Post Delivery Check
2. Program Versions
3. Pedal Calibration
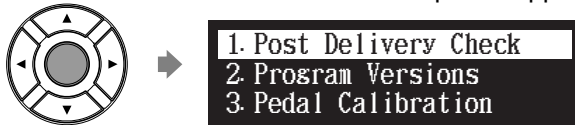
4 Select a desired option with the cursor buttons ([▲] [▼]), then press [ENTER].
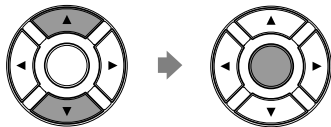
The selected option is executed.

5 Press [STOP] to complete the operation.

Updating the Disklavier

Shut Down the Disklavier ▶ **Holding [PLAY/PAUSE] and [ON/OFF]**

You can update the Disklavier firmware from CD-ROM.

☞ For this operation you have to insert the update CD-ROM and shut down the Disklavier.

1 Make sure that Disklavier is shut down.

2 Holding [PLAY/PAUSE] on the control unit, press [ON/OFF].

ON/OFF

Hold

=Updater=
CTRL system V1.00
*UPDATE   (ENT)

The current version information of each module appears one after the other.

Other Settings

3 **Make sure that the update CD-ROM inserted, then press [ENTER].**

The starting screen appears.

```
=Updater=
REWRITE SYSTEM PROGRAM
                    (ENT)
```

After a while, the update confirmation message of each module appears.

```
=Updater=
V1.00    → V1.01
CTRL-SURE?  (PLAY, STOP)
```

4 **Press [PLAY/PAUSE] to update, [STOP] to skip to the next module.**

Update   Skip

```
=Updater=
V1.00        →V1.01
DO NOT REMOVE DISK! 3500
```

The closing screen appears when the update for all modules completes.

```
=Updater=
COMPLETE
Turn OFF, Turn ON again!
```

5 **Restart the Disklavier.**

Chapter 12

Internal Tone Generator Voices

The following table lists the basic voices for the internal GM/XG and TG3 tone generator.
These voices are available on any GM/XG and TG3 compatible generator or synthesizer.

Internal GM/XG Tone Generator Basic Voice List

Voice #	Display Name	Voice #	Display Name	Voice #	Display Name
01 Piano		043	Orgel	086	OrgFlute
001	GrandPno	044	Vibes	087	TrmOrgFl
002	GrandPnoK	045	VibesK	088	ReedOrgn
003	MelloGrP	046	HardVibe	089	Puff Org
004	PianoStr	047	MarimbaK	090	Acordion
005	Dream	048	MarimbaK	091	AccordIt
006	BritePno	049	SineMrmb	092	Harmnica
007	BritPnoK	050	Balafon2	093	Harmo 2
008	E.Grand	051	Log Drum	094	TangoAcd
009	ElGrPnoK	052	Xylophon	095	TngoAcd2
010	Det.CP80	053	TubulBel	**04 Guitar**	
011	ElGrPno1	054	ChrchBel	096	NylonGtr
012	ElGrPno2	055	Carillon	097	NylonGt2
013	HnkyTonk	056	Dulcimer	098	NylonGt3
014	HnkyTnkK	057	Dulcimr2	099	VelGtHrm
015	E.Piano1	058	Cimbalom	100	Ukulele
016	El.Pno1K	059	Santur	101	SteelGtr
017	MelloEP1	**03 Organ**		102	SteelGt2
018	Chor.EP1	060	DrawOrgn	103	12StrGtr
019	HardEl.P	061	DetDrwOr	104	Nyln&Stl
020	VX El.P1	062	60sDrOr1	105	Stl&Body
021	60sEl.P	063	60sDrOr2	106	Mandolin
022	E.Piano2	064	70sDrOr1	107	Jazz Gtr
023	El.Pno2K	065	DrawOrg2	108	MelloGtr
024	Chor.EP2	066	60sDrOr3	109	JazzAmp
025	DX Hard	067	EvenBar	110	CleanGtr
026	DXLegend	068	16+2"2/3	111	ChorusGt
027	DX Phase	069	Organ Ba	112	Mute.Gtr
028	DX+Analg	070	70sDrOr2	113	FunkGtr1
029	DXKotoEP	071	CheezOrg	114	MuteStlG
030	VX El.P2	072	DrawOrg3	115	FunkGtr2
031	Harpsi.	073	PercOrgn	116	Jazz Man
032	Harpsi.K	074	70sPcOr1	117	Ovrdrive
033	Harpsi.2	075	DetPrcOr	118	Gt.Pinch
034	Harpsi.3	076	LiteOrg	119	Dist.Gtr
035	Clavi.	077	PercOrg2	120	FeedbkGt
036	Clavi.K	078	RockOrgn	121	FeedbGt2
037	ClaciWah	079	RotaryOr	122	GtrHarmo
038	PulseClv	080	SloRotar	123	GtFeedbk
039	PierceCl	081	FstRotar	124	GtrHrmo2
02 ChromaticPerc		082	ChrchOrg	**05 Bass**	
040	Celesta	083	ChurOrg3	125	Aco.Bass
041	Glocken	084	ChurOrg2	126	JazzRthm
042	MusicBox	085	NotreDam	127	VXUprght

English

12

Internal Tone Generator Voices

Voice #	Display Name
128	FngrBass
129	FingrDrk
130	FlangeBa
131	Ba&DstEG
132	FngrSlap
133	FngBass2
134	ModAlem
135	PickBass
136	MutePkBa
137	Fretless
138	Fretles2
139	Fretles3
140	Fretles4
141	SynFretl
142	Smooth
143	SlapBas1
144	ResoSlap
145	PunchThm
146	SlapBas2
147	VeloSlap
148	SynBass1
149	SynBa1Dk
150	FastResB
151	AcidBass
152	Clv Bass
153	TeknoBa
154	Oscar
155	SqrBass
156	RubberBa
157	Hammer
158	SynBass2
159	MelloSB1
160	Seq Bass
161	ClkSynBa
162	SynBa2Dk
163	SmthBa 2
164	ModulrBa
165	DX Bass
166	X WireBa
06 Strings	
167	Violin
168	SlowVin
169	Viola
170	Cello
171	Contrabs
172	Trem.Str
173	SlwTrStr
174	Susp Str
175	Pizz.Str
176	Harp
177	YangChin

Voice #	Display Name
178	Timpani
07 Ensemble	
179	Strings1
180	S.Strngs
181	SlowStr
182	ArcoStr
183	60sStrng
184	Orchestr
185	Orchstr2
186	TremOrch
187	VeloStr
188	Strings2
189	S.SlwStr
190	LegatoSt
191	Warm Str
192	Kingdom
193	70s Str
194	Str Ens3
195	Syn.Str1
196	ResoStr
197	Syn Str4
198	SS Str
199	Syn.Str2
200	ChoirAah
201	S.Choir
202	Ch.Aahs2
203	MelChoir
204	ChoirStr
205	VoiceOch
206	SynVoice
207	SynVox2
208	Choral
209	AnaVoice
210	Orch.Hit
211	OrchHit2
212	Impact
08 Brass	
213	Trumpet
214	Trumpet2
215	BriteTrp
216	WarmTrp
217	Trombone
218	Trmbone2
219	Tuba
220	Tuba 2
221	Mute.Trp
222	Fr.Horn
223	FrHrSolo
224	FrHorn2
225	HornOrch
226	BrasSect

Voice #	Display Name
227	Tp&TbSec
228	BrssSec2
229	HiBrass
230	MelloBrs
231	SynBras1
232	QuackBr
233	RezSynBr
234	PolyBrss
235	SynBras3
236	JumpBrss
237	AnaVelBr
238	AnaBrss1
239	SynBras2
240	Soft Brs
241	SynBras4
242	ChorBrss
243	VelBras2
244	AnaBras2
09 Reed	
245	SprnoSax
246	Alto Sax
247	Sax Sect
248	HyprAlto
249	TenorSax
250	BrthTnSx
251	SoftTenr
252	TnrSax 2
253	Bari.Sax
254	Oboe
255	Eng.Horn
256	Bassoon
257	Clarinet
10 Pipe	
258	Piccolo
259	Flute
260	Recorder
261	PanFlute
262	Bottle
263	Shakhchi
264	Whistle
265	Ocarina
11 Synth Lead	
266	SquareLd
267	Square 2
268	LMSquare
269	Hollow
270	Shmoog
271	Mellow
272	SoloSine
273	SineLead
274	Saw.Lead

English

Voice #	Display Name
275	Saw 2
276	ThickSaw
277	DynaSaw
278	DigiSaw
279	Big Lead
280	HeavySyn
281	WaspySyn
282	PulseSaw
283	Dr. Lead
284	VeloLead
285	Seq Ana
286	CaliopLd
287	Pure Pad
288	Chiff Ld
289	Rubby
290	CharanLd
291	DistLead
292	WireLead
293	Voice Ld
294	SynthAah
295	VoxLead
296	Fifth Ld
297	Big Five
298	Bass &Ld
299	Big&Low
300	Fat&Prky
301	SoftWurl
12 Synth Pad	
302	NewAgePd
303	Fantasy2
304	Warm Pad
305	ThickPad
306	Soft Pad
307	SinePad
308	Horn Pad
309	RotarStr
310	PolySyPd
311	PolyPd80
312	ClickPad
313	Ana Pad
314	SquarPad
315	ChoirPad
316	Heaven2
317	Itopia
318	CC Pad
319	BowedPad
320	Glacier
321	GlassPad
322	MetalPad
323	Tine Pad
324	Pan Pad

Voice #	Display Name
325	Halo Pad
326	SweepPad
327	Shwimmer
328	Converge
329	PolarPad
330	Celstial
13 Synth Effects	
331	Rain
332	ClaviPad
333	HrmoRain
334	AfrcnWnd
335	Caribean
336	SoundTrk
337	Prologue
338	Ancestrl
339	Crystal
340	SynDrCmp
341	Popcorn
342	TinyBell
343	RndGlock
344	GlockChi
345	ClearBel
346	ChorBell
347	SynMalet
348	SftCryst
349	LoudGlok
350	XmasBell
351	VibeBell
352	DigiBell
353	AirBells
354	BellHarp
355	Gamelmba
356	Atmosphr
357	WarmAtms
358	HollwRls
359	NylonEP
360	NylnHarp
361	Harp Vox
362	AtmosPad
363	Planet
364	Bright
365	FantaBel
366	Smokey
367	Goblins
368	GobSyn
369	50sSciFi
370	Ring Pad
371	Ritual
372	ToHeaven
373	Night
374	Glisten

Voice #	Display Name
375	BelChoir
376	Echoes
377	EchoPad2
378	Echo Pan
379	EchoBell
380	Big Pan
381	SynPiano
382	Creation
383	Stardust
384	Reso Pan
385	Sci-Fi
386	Starz
14 Ethnic	
387	Sitar
388	DetSitar
389	Sitar 2
390	Tambra
391	Tamboura
392	Banjo
393	MuteBnjo
394	Rabab
395	Gopichnt
396	Oud
397	Shamisen
398	Koto
399	T.Koto
400	Kanoon
401	Kalimba
402	Bagpipe
403	Fiddle
404	Shanai
405	Shanai2
406	Pungi
407	Hichriki
15 Percussive	
408	TnklBell
409	Bonang
410	Gender
411	Gamelan
412	S.Gamlan
413	Rama Cym
414	AsianBel
415	Agogo
416	SteelDrm
417	GlasPerc
418	ThaiBell
419	WoodBlok
420	Castanet
421	TaikoDrm
422	Gr.Cassa
423	MelodTom

Internal Tone Generator Voices

Voice #	Display Name
424	Mel Tom2
425	Real Tom
426	Rock Tom
427	Syn.Drum
428	Ana Tom
429	ElecPerc
430	RevCymbl
16 Sound Effects	
431	FretNoiz
432	BrthNoiz
433	Seashore
434	Tweet
435	Telphone
436	Helicptr
437	Applause
438	Gunshot
18 SFX Voice	
450	CuttngNz
451	CttngNz2
452	Str Slap
453	Fl.KClik
454	Rain
455	Thunder
456	Wind
457	Stream
458	Bubble

Voice #	Display Name
459	Feed
460	Dog
461	Horse
462	Bird
463	Ghost
464	Maou
465	Tel.Dial
466	DoorSqek
467	DoorSlam
468	Scratch
469	Scratch2
470	WindChm
471	Telphon2
472	CarEngin
473	Car Stop
474	Car Pass
475	CarCrash
476	Siren
477	Train
478	Jetplane
479	Starship
480	Burst
481	Coaster
482	SbMarine
483	Laughing
484	Scream

Voice #	Display Name
485	Punch
486	Heart
487	FootStep
488	MchinGun
489	LaserGun
490	Xplosion
491	FireWork

Internal GM/XG Tone Generator Drum Voice List

Voice #	Display Name
17 Drum Kit	
439	StandKit
440	Stnd2Kit
441	Room Kit
442	Rock Kit
443	ElectKit
444	AnalgKit
445	Jazz Kit
446	BrushKit
447	ClascKit
448	SFX Kit1
449	SFX Kit2

Internal TG3 Tone Generator Basic Voice List

Voice #	Display Name
01 Piano	
001	GrandPno
002	BritePno
003	E.Grand
004	HnkyTonk
005	E.Piano1
006	E.Piano2
007	Harpsi.
008	Clavi.
02 ChromaticPerc	
009	Celesta
010	Glocken
011	MusicBox
012	Vibes
013	Marimba
014	Xylophon
015	TubulBel

Voice #	Display Name
016	Dulcimer
03 Organ	
017	DrawOrgn
018	PercOrgn
019	RockOrgn
020	ChrchOrg
021	ReedOrgn
022	Acordion
023	Harmnica
024	TangoAcd
04 Guitar	
025	NylonGtr
026	SteelGtr
027	Jazz Gtr
028	CleanGtr
029	Mute.Gtr
030	Ovrdrive

Voice #	Display Name
031	Dist.Gtr
032	GtrHarmo
05 Bass	
033	Aco.Bass
034	FngrBass
035	PickBass
036	Fretless
037	SlapBas1
038	SlapBas2
039	SynBass1
040	SynBass2
06 Strings	
041	Violin
042	Viola
043	Cello
044	Contrabs
045	Trem.Str

Voice #	Display Name
046	Pizz.Str
047	Harp
048	Timpani
07 Ensemble	
049	Strings1
050	Strings2
051	Syn.Str1
052	Syn.Str2
053	ChoirAah
054	VoiceOoh
055	SynVoice
056	Orch.Hit
08 Brass	
057	Trumpet
058	Trombone
059	Tuba
060	Mute.Trp
061	Fr.Horn
062	BrasSect
063	SynBras1
064	SynBras2
09 Reed	
065	SprnoSax
066	Alto Sax
067	TenorSax
068	Bari.Sax
069	Oboe
070	Eng.Horn
071	Bassoon
072	Clarinet
10 Pipe	
073	Piccolo
074	Flute
075	Recorder
076	PanFlute
077	Bottle
078	Shakhchi
079	Whistle
080	Ocarina
11 Synth Lead	
081	SquareLd
082	Saw.Lead
083	CaliopLd
084	Chiff Ld
085	CharanLd
086	Voice Ld
087	Fifth Ld
088	Bass &Ld
12 Synth Pad	
089	NewAgePd
090	Warm Pad

Voice #	Display Name
091	PolySyPd
092	ChoirPad
093	BowedPad
094	MetalPad
095	Halo Pad
096	SweepPad
13 Synth Effects	
097	Rain
098	SoundTrk
099	Crystal
100	Atmosphr
101	Bright
102	Goblins
103	Echoes
104	Sci-Fi
14 Ethnic	
105	Sitar
106	Banjo
107	Shamisen
108	Koto
109	Kalimba
110	Bagpipe
111	Fiddle
112	Shanai
15 Percussive	
113	TnklBell
114	Agogo
115	SteelDrm
116	WoodBlok
117	TaikoDrm
118	MelodTom
119	Syn.Drum
120	RevCymbl
16 Sound Effects	
121	FretNoiz
122	BrthNoiz
123	Seashore
124	Tweet
125	Telphone
126	Helicptr
127	Applause
128	Gunshot

Internal TG3 Tone Generator Drum Voice List

Voice #	Display Name
17 Drum Kit	
129	StandKit

Chapter 13

Troubleshooting

If you are having difficulty operating the Disklavier, see if any of the symptoms listed below apply to your problem and follow the recommended remedy.

Power

Symptom	Remedy
The Diskalvier does not turn on.	Make sure that the power cord is securely connected to a suitable AC wall outlet.
	If the Disklavier still cannot be turned on, disconnect it from the AC wall outlet, and consult your Disklavier dealer.

Control Unit

Symptom	Remedy
The control unit does not appear to work correctly.	Turn off the control unit, wait 5 seconds, then turn it back on. If the problem continues, consult your Disklavier dealer.
The control unit becomes hot.	Although the chassis of the control unit may become hot while the Disklavier is turned on (also in the standby mode), this is not a malfunction.

Remote Control

Symptom	Remedy
You cannot control the Disklavier using the remote control.	Make sure that you are pointing the remote control at the control unit's remote control sensor.
	Make sure that you are within the remote control's specified operating range (approx. 5 m (16.4 ft)).
	Make sure that the remote control's batteries have been installed correctly.
	Check the condition of the remote control's batteries.

Monitor Speakers*

Symptom	Remedy
No sound is heard from the monitor speakers.	Make sure that the POWER switches on both monitor speakers are turned on.
	Make sure that the monitor speakers are connected to the OUTPUT jacks on the control unit with the supplied speaker cords.
	Make sure that the overall volume is adequately turned up.
	Make sure that the volume of the internal tone generator, audio and voice are adequately turned up.
	Certain model does not come with the monitor speakers. In such a case, prepare active speakers equivalent to the monitor speakers.

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

Playback

Symptom	Remedy
None of the playback functions can be used.	Insert a medium that contains songs into the Disklavier.
The Disklavier does not read a song file.	The maximum number of the readable files in an album is 999.
	Make sure that the name of the SMF song has an extension as ".MID" or ".mid" and the E-SEQ song has ".FIL" or ".fil."
Songs are played back at the wrong tempo or in the wrong key.	Reset the tempo or transposition changes. Once the tempo or transposition have been changed, they will affect playback of all songs on an album, until another medium or album is selected, the recording standby mode is engaged, the Disklavier is turned off, or they are reset.
Songs are not played back in the normal song order.	Make sure that the random repeat mode is off.
The playback order differs from the order on another device.	The playback order depends on the recording software or other factors. Naming the file starting from numbers such as 01, 02, etc. may solve the problem.
When selecting a song using the remote control's number keypad, but the last song on the album is selected.	If a song number higher than the last song number on the album is specified, the last song will be selected.
When specifying a search time using the remote control's number keypad, but the end of the song is selected.	If a time value higher than the total length of the song is specified, the end of the song will be selected.
Some notes drop out during playback.	When a piano song is played back at a low volume, complex note trills and faint pianissimo passages sometimes drop out. In such case, increase the Disklavier's volume level.
PianoSmart™ playback cannot be performed.	Make sure that an appropriate SmartPianoSoft song, which is paired with the song on commercial CDs, is selected.
The pedals do not operate during playback.	Make sure that the pedal part is not canceled.

Tone Generator

Symptom	Remedy
The ensemble parts cannot be heard during ensemble song playback.	Make sure that the TG balance is set to an appropriate level and readjust it.
The pitch of the Disklavier and the internal tone generator do not match.	Use the TG Master Tune function to tune the internal tone generator.

Recording

Symptom	Remedy
You cannot re-record.	Re-recording is not possible on protected songs such as PianoSoft and PianoSoft·Plus songs.

English

Chapter

13

Troubleshooting

Media

Symptom	Remedy
The Disklavier does not recognize a USB flash memory.	The Disklavier restricts the usage of the USB flash memories to seven identical ones by recognizing the ID information of the memories that have been inserted to the USB port. If you use USB flash memories other than the ones already recognized, shut down the Disklavier once before using them.
	Certain USB storage devices may not function properly with the Disklavier. For a list of compatible products, please visit: *www.yamaha.com/disklavier.*
The Disklavier does not read a CD-R/RW disc.	The audio CD should be formatted in ISO 9600, and the data CD in ISO 9600 Level1. The Disklavier may not read a CD-R/RW disc other than this format.

Connection with External Devices

Symptom	Remedy
The Disklavier cannot send or receive MIDI data with other MIDI instruments.	Make sure that the MIDI cables are connected properly.
A MIDI loop was accidentally created when you connected a computer to the MIDI OUT terminal on your Disklavier, so that song data is sent back and forth between the computer and the Disklavier.	Configure the setting for the MIDI OUT terminal to "KBD OUT."

Chapter 14

Error Messages

While operating your Disklavier, an error message may appear in the display. If an error message appears, refer to the table below for an explanation of the message.

Note: This table does not explain every error messages.

Error Messages	Situation	Remedy
SELECT REC TRACK!	You tried to start recording with no part selected.	Select the part to record before starting recording.
CANNOT RECORD NO PIANO PART	You tried to start recording to the track with no piano part.	You cannot record to the track with no piano part.
CANNOT EXECUTE NO DESTINATION MEDIUM	You selected the destination medium that has not been inserted when copying the album.	Insert the destination medium and select it.
CANNOT EXECUTE TO DELETE 1ST ALBUM	You tried to delete the first album in a medium.	You cannot delete the first album in a medium.
CANNOT EXECUTE TO CREATE MORE THAN 99 ALBUMS	You tried to create a new album on the medium that already contains 99 albums.	No more than 99 albums can be created on the medium.
CANNOT EXECUTE//SAME TITLE EXISTS	You tried to create a new album titled as same as the album that already exists.	Enter the different title to a new album.
CANNOT EXECUTE PROTECTED FILE	You tried to copy the protected song file to the removable medium such as a USB flash memory.	You cannot copy the protected song file to the removable medium.
PLAYLIST NOT FOUND	You tried to delete the playlist, but no playlist exists.	
	You tried to add songs to the playlist, but no playlist exists.	First, you must create a new playlist, and then add songs to it.
Please connect an USB HDD to USB port.	You tried to make a backup without connecting an external USB HDD.	Connect an external USB HDD before making a backup.
	You tried to restore a backup without connecting an external USB HDD.	Connect the external USB HDD that contains a backup data.

English

Chapter 15

Glossary

This glossary provides basic definitions of terms used frequently in Disklavier manuals.

Clavinova™

A series of Yamaha digital pianos.

Continuous Pedal

See *"Incremental Pedal."*

DHCP

This is a standard or protocol by which IP addresses and other low-level network configuration information can be dynamically and automatically assigned each time a connection is made to the Internet.

DNS

A system that translates names of computers connected to a network to their corresponding IP addresses.

Ensemble Song

A song which contains piano parts and accompanying instrumental voices. An ensemble song contains the same left- and right-hand parts as an L/R song, and in addition, up to 13 accompanying instrument tracks. These extra tracks are played by the internal XG tone generator. The accompanying tracks may be used for acoustic bass, drums, strings, vibes, etc.

E-SEQ Song Format

A song file format developed by Yamaha for saving songs.

Floppy Disk

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

Gateway

A system which links different networks or systems, and makes possible data transfer and conversion despite differing communications standards.

General MIDI (GM)

An addition to the MIDI standard that simplifies the transfer of MIDI song files between instruments of different manufacturers. A MIDI song recorded using a GM compatible tone generator should play back correctly when used with any GM compatible tone generator. The standard specifies that a GM compatible tone generator must support 24-note polyphony, 16 parts, and 128 standard voices.

Half Pedal

See *"Incremental Pedal."*

Incremental Pedal

Piano pedals are not always completely up or down and may be held somewhere in-between. Using incremental pedal data (also called continuous or half pedal data) the Disklavier precisely records the up and down movement of the piano pedals.

Internet

A huge network made up of networks, the Internet allows high-speed data transfer among computers, mobile phones and other devices.

IP Address

A string of numbers assigned to each computer connected to a network, and indicating the device's location on the network.

LAN

Short for Local Area Network, this is a data-transfer network that connects a group of computers at a single location (such as an office or home) by means of a special cable.

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

English

MIDI

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

Modem

A device which connects and allows data transfer between a conventional telephone line and a computer. It converts the digital signals from the computer to analog audio for sending over the phone line, and vice versa.

Piano Parts

Refer to the left- and right-hand piano parts of a song. The left-hand piano part is recorded onto track 1 and the right-hand piano part is recorded onto track 2. These track assignments are the default settings and can be changed.

PianoSoft™

The PianoSoft Disk Collection is a library of prerecorded song disks made by Yamaha specifically for use with the Disklavier.

PianoSoft·Plus™

PianoSoft·Plus disks contain Ensemble songs that can be played on the Disklavier.

Polyphony

The maximum number of voices (or sounds) that can be produced at a time from MIDI instruments.

Provider

A communications business that offers Internet connection services. In order to connect to the Internet, it is necessary to contract to a provider.

Proxy

A proxy server is a server that all computers on a local network have to go through before accessing information on the Internet. It intercepts all or designated requests to the real server to see if it can fulfill the requests itself. If not, it forwards the request to the real server. Proxy servers are used to improve performance and speed, and to filter requests, usually for security and to prevent unauthorized access to an internal network.

Router

A device for connecting multiple computer networks. For example, a router is necessary when connecting several computers in a house or office, to allow all of them access the Internet and share data. A router is usually connected between a modem and a computer, although some modems have a built-in router.

Sequencer

A sequencer can be used with the Disklavier to play back and record MIDI data.

Server

A hardware system or computer used as a central point for a network, providing access to files and services.

SmartPianoSoft™

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

SMF

Abbreviation for Standard MIDI File.

SMF Song Format

A song file format supported by MIDI sequencers and music software.

Song

Normally, a short piece of music with lyrics. However, for clarity in Disklavier manuals, the term is used to refer to any piece of music of any genre.

Standard MIDI File (SMF)

A file of MIDI data that can be read and used by a number of different MIDI devices and computers.

Subnet Mask

A setting used to divide a large-scale network into several smaller networks.

TG Master Tune

The function that allows you to tune the internal XG tone generator, and if connected, an external tone generator simultaneously so that their tunings match that of the Disklavier.

Glossary

Tone Generator

An electronic device that can generate tones or instrument voices.

Transpose

Changing the key of a song. For example, a song in the key of C is transposed to the key of D when it is moved up two semitones.

USB

An interface for connecting an external device with plug and play. The Disklavier supplies with 2 TO DEVICE terminal with USB 1.1 standard and 1 TO HOST terminal. You can use as the external memory media if connected a USB flash memory or a USB hard disk to TO DEVICE terminal. Also the Disklavier enables you to enjoy a variety of MIDI features by connecting a computer to TO HOST terminal.

Velocity

Because the loudness of a piano note is determined by the speed (velocity) with which a string is struck by a hammer, note loudness is referred to as velocity.

Voice

The sounds produced by a tone generator expressing various instruments.

Web Page

Refers to each individual page that makes up a website.

Website

This refers to the group of web pages that are opened together. For example, the collection of web pages whose addresses begin with *"http://www.yamaha.com/"* is referred to as the Yamaha site.

XG

Yamaha XG is an extension of the GM (General MIDI) format. Its greater polyphony, more voices, and use of effects enhances the compatibility between MIDI devices. When a song in the Yamaha XG format is played on another XG-compatible tone generator or synthesizer, it plays and sounds as the original composer/creator intended.

Chapter 16 Specifications

General

Sensor System	Key Sensors	Noncontact optical fiber/grayscale shutter sensing system for 88 keys (senses the key position, keying velocity, and key releasing velocity)
	Hammer Sensors[*1]	Noncontact optical fiber/grayscale shutter sensing system.
	Pedal Sensors	Noncontact digital optical sensing system (senses the pedal position[*2])
Drive System	Keys	DSP servo drive system (high-power servocontrolled solenoids)
	Pedals	DSP servo drive system (servocontrolled solenoids)
Data Storage	Internal Memory	128 MB
Removable Media	Compact Disc	Audio CD (ISO 9600-compliant), Data CD (ISO 9600 Level1-compliant)
	USB Flash Memory	Yamaha does not assure the operation of the commercially available USB flash memories. For a list of compatible products, please visit: *www.yamaha.com/disklavier*.
	USB Hard Disk	FAT32 format Yamaha does not assure the operation of the commercially available USB hard disks.
	Floppy Disk	3.5" 2DD (720 KB) or 2HD (1.44 MB) floppy disk[*3]
File Format		Standard MIDI File (SMF) FORMAT 0, Standard MIDI File (SMF) FORMAT 1, E-SEQ
Song Format		PianoSoft (Solo), PianoSoft·Plus, PianoSoft·PlusAudio, SmartPianoSoft, SmartKey (CueTIME)
Control Unit	Drive	CD (read only)
	Dimensions (W × H × D)	292 × 49 × 216 mm (11-1/2" × 1-15/16" × 8-1/2")
	Weight	
Monitor Speaker[*4]	Rated Power Output	
	Drivers	
	Dimensions (W × H × D)	
	Weight	
Connectors	MIDI	MIDI IN, MIDI OUT
	Audio	OUTPUT, ANALOG MIDI IN (Yamaha format), OMNI IN, OMNI OUT
	Others	LAN, USB (1 × TO HOST, 2 × TO DEVICE), TO PIANO (2 × S/P DIF, 1 × D-SUB)
Pitch Control		Set at A=440 Hz, tunable -50 to +50 cents in 1 cent increment
Ensemble Tone	Type	Advanced Wave Memory 2 (AWM2)
	Polyphony	32 notes (max.)
	Ensemble Parts	16 parts
	Voice Module Modes	XG, GM
	Normal Voices	676
	Drum Voices	21 kits
Power Source		Local AC current, 100 to 240V, 50/60 Hz
Supplied Accessories		Control unit (1), control unit suspension bracket (1)[*5], monitor speaker (2)[*4], monitor speaker installation kit (1)[*4], speaker cord (2)[*4], remote control (1), battery for remote control (2), sample PianoSoft CD software (2), quick reference (1), operation manual (1)
Optional Accessories		USB floppy disk drive

Chapter

16

Specifications

Function & Controls

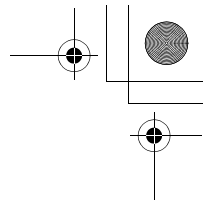|		
Playback Functions	Media Select	Internal memory, CD, USB media (including floppy disk)
	Song Select	Cursor buttons (control unit), cursor buttons/numeric section (remote control)
	Basic Functions	Play, stop, pause
	Song Search	Reverse/forward w/sound (MIDI songs), reverse/forward w/o sound (audio songs), directly by time or measure.
	Repeat	ALL (all songs in current album), RPT (current song), RND (all songs in current album in random order), A-B
	Part Cancel	L (left), R (right), pedal
	Timer Playback	See *page 00*.
	SmartKey™ Playback	See *page 00*.
	PianoSmart™ Playback	See *page 00*.
	Polyphony	16 notes (acoustic piano)
Playback Controls	Volume	11 levels (−10 to 0)
	Tempo	−50 to 50% in 1% increment
	Transposition	−24 to +24 semitones (2 octaves) in 1 semitone increment
	Balance (TG, Audio)	10 to 127
Recording Functions	Piano Part Recording	L/R overwrite, split
	Metronome Mode Recording	See *page 00*.
	Tempo Changing	See *page 00*.
	Audio CD Synchronization	See *page 00*.
Piano Playing Functions	XG Voices	Approx. 500 voices
Metronome	Range	30 to 400 beats per minute
	Time Signatures	1/4, 2/4, 3/4, 4/4, 5/4, 6/4, 7/4, 8/4, 9/4
	Volume	Controllable
Utility Functions	Song	Copy, delete, sort, type convert, time format convert
	Album	Copy, delete, sort
	Backup/Restore	See *page 00*.
	Floppy Disk[3]	Format
Network Functions	DisklavierRadio	See *page 00*.
	FromToPC	See *page 00*.
	Network Update	See *page 00*.
Update		Firmware update with the update CD or via the Internet

Specifications are subject to change without prior notice.

Note: [1] Equipped with the C3 grand piano or higher specification model only.

[2] Continuous sensing for the damper and soft pedals, and on/off sensing for the sostenuto pedal.

[3] Possible for optional floppy disk drive.

[4] Only for models supplied with the monitor speakers.

YAMAHA [Disklavier]

MIDI IMPLEMENTATION CHART

Model: E3 Series

Date: XX-xxx-2008
Version: 1.00

Function...		Transmitted	Recognized	Remarks
Basic	Default	1-16	1-16	Memorized
Channel	Changed	1-16	1-16	
	Default	3	3	
Mode	Messages	×	3, 4 (m=1) *2, *3	
	Altered	****************	×	
Note		0-127	0-127	
Number	: True voice	****************	0-127	
Velocity	Note ON	○ 9nH, v=1-127	○ v=1-127	
	Note OFF	○	○	
After	Key s	○ *5	○	
Touch	Ch s	×	○ *1, *2	
Pitch Bend		×	○ 0-24 semi *1, *2	
	0, 32	○	○ *1, *2	Bank Select
	7, 11	○	○ *1	
	1, 5, 10	×	○ *1, *2	
	6, 38	×	○ *2	Data Entry
	64	○	○	Hold1 (Sustain)
Control	65	×	○ *2	Portament
	66	○ *4	○ *2	Sostenuto
Change	67	○	○	Soft (Shift) Pedal
	71-74, 84	×	○ *2	
	91, 93, 94	×	○ *2	Effect Depth
	96-101	×	○ *1,*2	
Prog		○ 0-127	○ 0-127 *2	
Change	: True #	****************		
System Exclusive		○	○	
	: Song Pos	×	×	
Common	: Song Sel	×	×	
	: Tune	×	×	
System	: Clock	×	×	
Real Time	: Commands	×	×	
Aux	: All Sound OFF	○	○ (120, 126, 127)	
	: Reset All Cntrls	×	○ (121)	
	: Local ON/OFF	×	○	
	: All Notes OFF	○	○ (123-125)	
Messages	: Active Sense	○	○	
	: Reset	×	×	
Notes	*1 = Received (transmitted) if switch is on.		*5 = Applying further pressure on the key does not output key	
	*2 = Only ESBL Part can recognized.		aftertouch information. Instead, key position is	
	*3 = m is always treated as 1 regardless of its value.		transmitted as additional information.	
	*4 = Transmit if this model has a Sostenuto Pedal.			

Mode 1 : OMNI ON. POLY   Mode 2 : OMNI ON. MONO   ○ : YES
Mode 3 : OMNI OFF. POLY   Mode 4 : OMNI OFF. MONO   × : NO