

User Manual of Product 1:

Yamaha P45 88-Key Weighted Digital Piano



DIGITAL PIANO

P - 45

Owner's Manual

Important Notice: Guarantee Information for customers in European Economic Area (EEA) and Switzerland

Important Notice: Guarantee Information for customers in EEA* and Switzerland For detailed guarantee information about this Yamaha product, and Pan-EEA* and Switzerland warranty service, please either visit the website address below (Printable file is available at our website) or contact the Yamaha representative office for your country. * EEA: European Economic Area	English
Wichtiger Hinweis: Garantie-Information für Kunden in der EWR* und der Schweiz Für nähere Garantie-Information über dieses Produkt von Yamaha, sowie über den Pan-EEA*- und Schweizer Garantieservice, besuchen Sie bitte entweder die folgende angegebene Internetadresse (eine druckfähige Version befindet sich auch auf unserer Webseite), oder wenden Sie sich an den für Ihr Land zuständigen Yamaha-Vertrieb. *EWR: Europäische Wirtschaftsraum	Deutsch
Remarque importante: Informations de garantie pour les clients de l'EEE et la Suisse Pour des informations plus détaillées sur la garantie de ce produit Yamaha et sur le service de garantie applicable dans l'ensemble de l'EEE ainsi qu'en Suisse, consultez notre site Web à l'adresse ci-dessous (le fichier imprimable est disponible sur notre site Web) ou contactez directement Yamaha dans votre pays de résidence. * EEE: Espace Economique Européen	Français
Belangrijke mededeling: Garantie-informatie voor klanten in de EER* en Zwitserland Voor gedetailleerde garantie-informatie over dit Yamaha-product en de garantieservice in heel de EER* en Zwitserland, gaat u naar de onderstaande website (u vindt een afdrukbare bestand op onze website) of neemt u contact op met de vertegenwoordiging van Yamaha in uw land. * EER: Europese Economische Ruimte	Nederlands
Aviso importante: Información sobre la garantía para los clientes del EEE* y Suiza Para una información detallada sobre este producto Yamaha y sobre el soporte de garantía en la zona EEE* y Suiza, visite la dirección web que se incluye más abajo (la versión del archivo para imprimir está disponible en nuestro sitio web) o póngase en contacto con el representante de Yamaha en su país. * EEE: Espacio Económico Europeo	Español
Aviso importante: informazioni sulla garanzia per i clienti residenti nell'EEA* e in Svizzera Per informazioni dettagliate sulla garanzia relativa a questo prodotto Yamaha e l'assistenza in garanzia nella zona EEA* e in Svizzera, potete consultare il sito Web all'indirizzo riportato di seguito (è disponibile il file in formato stampabile) oppure contattare l'ufficio di rappresentanza locale della Yamaha. * EEA: Area Economica Europea	Italiano
Aviso importante: informações sobre as garantias para clientes da AEE* e da Suíça Para obter uma informação pormenorizada sobre este produto da Yamaha e sobre o serviço de garantia na AEE* e na Suíça, visite o site a seguir (o arquivo para impressão está disponível no nosso site) ou entre em contato com o escritório de representação da Yamaha no seu país. * AEE: Área Económica Europeia	Português
Σημαντική σημείωση: Πληροφορίες εγγύησης για τους πελάτες στον ΕΟΧ* και Ελβετία Για λεπτομερείς πληροφορίες εγγύησης σχετικά με το παρόν προϊόν της Yamaha και την κάλυψη εγγύησης σε όλες τις χώρες του ΕΟΧ* και την Ελβετία, επισκεφτείτε την παρακάτω ιστοσελίδα (Εκτυπώσιμη μορφή είναι διαθέσιμη στην απευθείας στην αντιπροσωπεία της Yamaha στη χώρα σας. * ΕΟΧ: Ευρωπαϊκός Οικονομικός Χώρος	Ελληνικά
Viktigt Garantiinformasjon for kunder i EES-området* och Schweiz För detaljerad information om denna Yamaha-produkt samt garantiservice i hela EES-området* och Schweiz kan du antingen besöka nedanstående webbadress (en utskriftsvärdig fil finns på webbplatsen) eller kontakta Yamahas officiella representant i ditt land. * EES: Europeiska Ekonomiska Samarbetsområdet	Svenska
Viktig merknad: Garantiinformasjon for kunder i EØS* og Sveits Detaljerert garantiinformasjon om dette Yamaha-produktet og garantiservice for hele EØS-området* og Sveits kan fås enten ved å besøke nettstedene nedenfor (utskriftsversjon finnes på våre nettsider) eller kontakte Yamahas kontoret i landet der du bor. *EØS: Det europeiske økonomiske samarbeidsområdet	Norsk
Vigtig oplysning: Garantioplysninger til kunder i EØØ* og Schweiz De kan finde detaljerede garantioplysninger om dette Yamaha-produkt og den fælles garantiserviceordning for EØØ* (og Schweiz) ved at besøge det websted, der er angivet nedenfor (der findes en fil, som kan udskrives, på vores websted), eller ved at kontakte Yamahas nationale repræsentationskontor i det land, hvor De bor. * EØØ: Det Europæiske Økonomiske Område	Dansk

Tärkeä ilmoitus: Takuutiedot Euroopan talousalueen (ETA)* ja Sveitsin asiakkaille Tämän Yamaha-tuotteen sekä ETA-alueen ja Sveitsin takuuta koskevat yksityiskohtaiset tiedot saatte alla olevasta nettiosoitteesta. (Tulostettava tiedosto saatavissa sivustollamme.) Voitte myös ottaa yhteyttä paikalliseen Yamaha-edustajaan. *ETA: Euroopan talousalue	Suomi
Ważne: Warunki gwarancji obowiązujące w EOG* i Szwajcarii Aby dowiedzieć się więcej na temat warunków gwarancyjnych tego produktu firmy Yamaha i serwisu gwarancyjnego w całym EOG* i Szwajcarii, należy odwiedzić wskazaną poniżej stronę internetową (plik gotowy do wydruku znajduje się na naszej stronie internetowej) lub skontaktować się z przedstawicielstwem firmy Yamaha w swoim kraju. * EOG — Europejski Obszar Gospodarczy	Polski
Důležité oznámení: Záruční informace pro zákazníky v EHS* a ve Švýcarsku Podrobné záruční informace o tomto produktu Yamaha a záručním servisu v celém EHS* a ve Švýcarsku naleznete na níže uvedeném webovém adresě (soubor k tisku je dostupný na našich webových stránkách) nebo se můžete obrátit na zástupce firmy Yamaha ve své zemi. * EHS: Evropský hospodářský prostor	Česky
Fontos figyelemztetés: Garancia-információk az EGT* területén és Svájcban élő vásárlók számára A jelen Yamaha termékre vonatkozó részletes garancia-információk, valamint az EGT*-re és Svájcra kiterjedő garanciális szolgáltatás tekintetében keressék fel webhelyünket az alábbi címen (a webhelyen nyomtatható fájl is talál), vagy pedig lépjen kapcsolatba az országában működő Yamaha képviselőirodával. * EGT: Európai Gazdasági Térség	Magyar
Öluline märkus: Garantiteave Euroopa Majanduspiirkonna (EMP)* ja Šveitsi klientidele Täpsema teabe saamiseks selle Yamaha toote garantii ning kogu Euroopa Majanduspiirkonna ja Šveitsi garantiteeninduse kohta, külastage palun veebisaiti alljärgneval aadressil (meie saidil on saadaval printitav fail) või pöörduge Teie regiooni Yamaha esinduse poole. * EMP: Euroopa Majanduspiirkond	Eesti keel
Svarīgs paziņojums: garantijas informācija klientiem EEZ* un Šveicā Lai saņemtu detalizētu garantijas informāciju par šo Yamaha produktu, kā arī garantijas apkalpošanu EEZ* un Šveicā, lūdzam apmeklētiet zīmāķa norādīto tīmekļa vietnes adresi (tīmekļa vietnē ir pieejams drukājams fails) vai sazināties ar Jūsu valstī apkalpojošo Yamaha pārstāvniecību. * EEZ: Eiropas Ekonomikas zona	Latviešu
Dēmosis: informācija dēl garantijas pirkējams EEE* ir Šveicarijole Jei rakia išsamios informacijos apie šį „Yamaha“ produktą ir jo techninę priežiūrą visoje EEE* ir Šveicarijole, apsilankykite mūsų svetainėje toliau nurodytu adresu (svetainėje yra spausdinamas failas) arba kreipkitės į „Yamaha“ atstovybę savo šaliai. *EEE – Europos ekonominė erdvė	Lietuvių kalba
Dôležité upozornenie: Informácie o záruke pre zákazníkov v EHP* a Švajčiarsku Za podrobné informácie o záruke týkajúcej sa tohto produktu od spoločnosti Yamaha a garancijnom servise v EHP* a Švajčiarsku nájdete na webovej stránke uvedenej nižšie (na našej webovej stránke je k dispozícii súbor na tlač) alebo sa obráťte na zástupcu spoločnosti Yamaha vo svojej krajine. * EHP: Európsky hospodársky priestor	Slovenčina
Pomembno obvestilo: Informacije o garanciji za kupce v EGP* in Švici Za podrobnejše informacije o tem Yamaha-inem izdelku ter garancijskem servisu v celotnem EGP in Švici obiščite spletno mesto, ki je navedeno spodaj (natisljiva datoteka je na voljo na našem spletnem mestu), ali se obrnite na Yamahinega predstavnika v svoji državi. * EGP: Evropski gospodarski prostor	Slovensčina
Важно съобщение: Информация за гаранцията за клиенти в ЕИП* и Швейцария За подробна информация за гаранцията за този продукт на Yamaha и гаранционното обслужване в паневропейската зона на ЕИП* и Швейцария или посетете посочения по-долу уеб сайт (на нашия уеб сайт има файл за печат), или се свържете с представителния офис на Yamaha във вашата страна. * ЕИП: Европейско икономическо пространство	Български език
Notificare importantă: Informații despre garanție pentru clienții din SEE* și Elveția Pentru informații detaliate privind acest produs Yamaha și serviciul de garanție Pan-SEE* și Elveția, vizitați site-ul la adresa de mai jos (fișierul imprimabil este disponibil pe site-ul nostru) sau contactați biroul reprezentanței Yamaha din țara dumneavoastră. * SEE: Spațiul Economic European	Limba română

<http://europe.yamaha.com/warranty/>

OBSERVERA!

Apparaten kopplas inte ur växelströmskällan (nätet) så länge som den är ansluten till vägguttaget, även om själva apparaten har stängts av.

ADVARSEL: Netspændingen til dette apparat er IKKE afbrudt, så længe netledningen sidder i en stikkontakt, som er tændt — også selvom der er slukket på apparatets afbryder.

VAROITUS: Laitteen toisiopiiriin kytketty käyttökytkin ei irroita koko laitetta verkosta.

(standby)

Information for Users on Collection and Disposal of Old Equipment



This symbol on the products, packaging, and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste.

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

By disposing of these products 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, 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]

This symbol is 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.

(weee_eu_en_01)

The model number, serial number, power requirements, etc., may be found on or near the name plate, which is at the bottom of the unit. You should note this serial number in the space provided below and retain this manual as a permanent record of your purchase to aid identification in the event of theft.

Model No.

Serial No.

(bottom_en_01)

PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

Please keep this manual in a safe and handy place for future reference.

For AC adaptor



WARNING

- This AC adaptor is designed for use with only Yamaha electronic instruments. Do not use for any other purpose.
- Indoor use only. Do not use in any wet environments.



CAUTION

- When setting up, make sure that the AC outlet is easily accessible. If some trouble or malfunction occurs, immediately turn off the power switch of the instrument and disconnect the AC adaptor from the outlet. When the AC adaptor is connected to the AC outlet, keep in mind that electricity is flowing at the minimum level, even if the power switch is turned off. When you are not using the instrument for a long time, make sure to unplug the power cord from the wall AC outlet.

For P-45



WARNING

Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following:

Power supply/AC adaptor

- Do not place the power cord near heat sources such as heaters or radiators. Also, do not excessively bend or otherwise damage the cord, or place heavy objects on it.
- Only use the voltage specified as correct for the instrument. The required voltage is printed on the name plate of the instrument.
- Use the specified adaptor (page 20) only. Using the wrong adaptor can result in damage to the instrument or overheating.
- Check the electric plug periodically and remove any dirt or dust which may have accumulated on it.

Do not open

- This instrument contains no user-serviceable parts. Do not open the instrument or attempt to disassemble or modify the internal components in any way. If it should appear to be malfunctioning, discontinue use immediately and have it inspected by qualified Yamaha service personnel.

Water warning

- Do not expose the instrument to rain, use it near water or in damp or wet conditions, or place on it any containers (such as vases, bottles or glasses) containing liquids which might spill into any openings. If any liquid such as water seeps into the instrument, turn off the power immediately and unplug the power cord from the AC outlet. Then have the instrument inspected by qualified Yamaha service personnel.
- Never insert or remove an electric plug with wet hands.

Fire warning

- Do not put burning items, such as candles, on the unit. A burning item may fall over and cause a fire.

If you notice any abnormality

- When one of the following problems occur, immediately turn off the power switch and disconnect the electric plug from the outlet. Then have the device inspected by Yamaha service personnel.
 - The power cord or plug becomes frayed or damaged.
 - It emits unusual smells or smoke.
 - Some object has been dropped into the instrument.
 - There is a sudden loss of sound during use of the instrument.



CAUTION

Always follow the basic precautions listed below to avoid the possibility of physical injury to you or others, or damage to the instrument or other property. These precautions include, but are not limited to, the following:

Power supply/AC adaptor

- Do not connect the instrument to an electrical outlet using a multiple-connector. Doing so can result in lower sound quality, or possibly cause overheating in the outlet.
- When removing the electric plug from the instrument or an outlet, always hold the plug itself and not the cord. Pulling by the cord can damage it.
- Remove the electric plug from the outlet when the instrument is not to be used for extended periods of time, or during electrical storms.

Location

- Do not place the instrument in an unstable position where it might accidentally fall over.
- Before moving the instrument, remove all connected cables, to prevent damage to the cables or injury to anyone who might trip over them.
- When setting up the product, make sure that the AC outlet you are using is easily accessible. If some trouble or malfunction occurs, immediately turn off the power switch and disconnect the plug from the outlet. Even when the power switch is turned off, electricity is still flowing to the product at the minimum level. When you are not using the product for a long time, make sure to unplug the power cord from the wall AC outlet.
- Use only the stand specified for the instrument. When attaching it, use the provided screws only. Failure to do so could cause damage to the internal components or result in the instrument falling over.

Connections

- Before connecting the instrument to other electronic components, turn off the power for all components. Before turning the power on or off for all components, set all volume levels to minimum.
- Be sure to set the volumes of all components at their minimum levels and gradually raise the volume controls while playing the instrument to set the desired listening level.

Handling caution

- Do not insert a finger or hand in any gaps on the instrument.
- Never insert or drop paper, metallic, or other objects into the gaps on the panel or keyboard. This could cause physical injury to you or others, damage to the instrument or other property, or operational failure.
- Do not rest your weight on, or place heavy objects on the instrument, and do not use excessive force on the buttons, switches or connectors.
- Do not use the instrument/device or headphones for a long period of time at a high or uncomfortable volume level, since this can cause permanent hearing loss. If you experience any hearing loss or ringing in the ears, consult a physician.

Yamaha cannot be held responsible for damage caused by improper use or modifications to the instrument, or data that is lost or destroyed.

Always turn the power off when the instrument is not in use.

Even when the [〇] (Standby/On) switch is in standby status (power lamp is off), electricity is still flowing to the instrument at the minimum level.

When you are not using the instrument for a long time, make sure you unplug the power cord from the wall AC outlet.

NOTICE

To avoid the possibility of malfunction/ damage to the product, damage to data, or damage to other property, follow the notices below.

■ Handling

- Do not use the instrument in the vicinity of a TV, radio, stereo equipment, mobile phone, or other electric devices. Otherwise, the instrument, TV, or radio may generate noise. When you use the instrument along with an application on your iPad, iPhone or iPod touch, we recommend that you set "Airplane Mode" to "ON" on that device in order to avoid noise caused by communication.
- Do not expose the instrument to excessive dust or vibrations, or extreme cold or heat (such as in direct sunlight, near a heater, or in a car during the day) to prevent the possibility of panel disfiguration, damage to the internal components or unstable operation. (Verified operating temperature range: 5° – 40°C, or 41° – 104°F.)
- Do not place vinyl, plastic or rubber objects on the instrument, since this might discolor the panel or keyboard.

■ Maintenance

- When cleaning the instrument, use a soft cloth. Do not use paint thinners, alcohol, solvents, cleaning fluids, or chemical-impregnated wiping cloths.

■ Saving data

- Some types of data (page 19) will be stored in internal memory, and maintained even if the power is turned off. However, the data could be lost due to malfunction or incorrect operation.

Information

■ About copyrights

- Copying of the commercially available musical data including but not limited to MIDI data and/or audio data is strictly prohibited except for your personal use.
- This product incorporates and bundles computer programs and contents in which Yamaha owns copyrights or with respect to which it has license to use others' copyrights. Such copyrighted materials include, without limitation, all computer software, style files, MIDI files, WAVE data, musical scores and sound recordings. Any unauthorized use of such programs and contents outside of personal use is not permitted under relevant laws. Any violation of copyright has legal consequences. **DON'T MAKE, DISTRIBUTE OR USE ILLEGAL COPIES.**

■ About functions/data bundled with the instrument

- Some of the preset songs have been edited for length or arrangement, and may not be exactly the same as the original.

■ About this manual

- The illustrations as shown in this manual are for instructional purposes only, and may appear somewhat different from those on your instrument.
- iPad, iPhone and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.
- The company names and product names in this manual are the trademarks or registered trademarks of their respective companies.

■ Tuning

- Unlike an acoustic piano, this instrument does not need to be tuned by an expert (although the pitch can be user-adjusted to match other instruments). This is because the pitch of digital instruments is always maintained perfectly.

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With this instrument, you can:

- ◆ Enjoy the feel of an authentic piano action with the Graded Hammer Standard (GHS) keyboard.
- ◆ Listen to the ten Piano Preset Songs as background music (page 16).
- ◆ Enjoy easy operation by holding down the [GRAND PIANO/FUNCTION] button and pressing the corresponding key on the keyboard to set up the instrument as desired. For more information on keyboard assignments, see page 22.

Thank you for purchasing this Yamaha Digital Piano!

We recommend that you read this manual carefully so that you can fully take advantage of the advanced and convenient functions of the instrument.

We also recommend that you keep this manual in a safe and handy place for future reference.

About the Manuals

This instrument has the following documents and instructional materials.

Included Documents



Owner's Manual (this book)

Quick Operation Guide (page 22)

Shows in chart form the functions assigned to the buttons and the keyboard for quick understanding.

Online Materials (PDF)



iPhone/iPad Connection Manual

Explains how to connect the instrument to smart devices, such as iPhone, iPad, etc.



Computer-related Operations

Contains instructions about computer-related functions.



MIDI Reference

Contains MIDI-related information.



MIDI Basics (only in English, French, German and Spanish)

Contains basic explanations about what MIDI is and can do.

To obtain these manuals, access the Yamaha Downloads website. Select your country, enter “P-45” in the Model Name box, then click [Search].

Yamaha Downloads

<http://download.yamaha.com/>

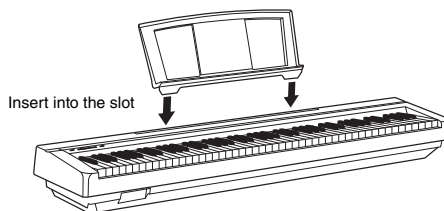
Accessories

- Owner's Manual
- AC Adaptor*
- Warranty*
- Online Member Product Registration**
- Footswitch

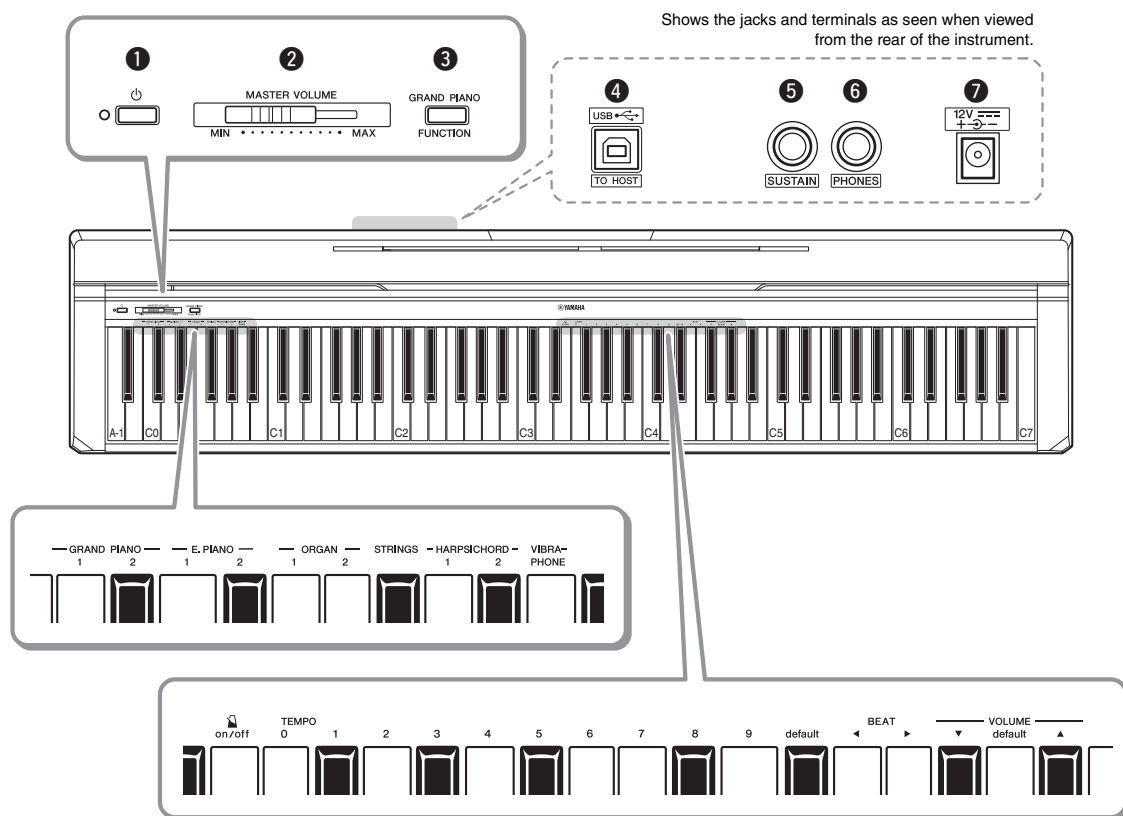
* May not be included depending on your particular area. Please check with your Yamaha dealer.

** The PRODUCT ID on the sheet will be needed when you fill out the User Registration form.

- Music Rest



Panel Controls and Terminals



① [⏻] (Standby/On) switchpage 10
For turning the power on or setting to standby.

② [MASTER VOLUME] sliderpage 11
For adjusting the volume of the entire sound.

③ [GRAND PIANO/FUNCTION] button.....page 12
For instantly calling up the Grand Piano 1 Voice.

FUNCTION

You can set various parameters by pressing a note on the keyboard while holding this button.

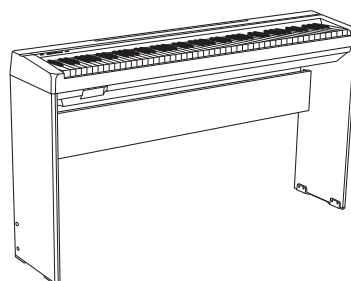
④ [USB TO HOST] terminalpage 18
For connecting to an iPhone, iPad, or computer.

⑤ [SUSTAIN] jackpage 11
For connecting the included footswitch, an optional footswitch or foot pedal.

⑥ [PHONES] jackpage 11
For connecting a set of standard stereo headphones.

⑦ DC IN jackpage 10
For connecting the power adaptor.

Optional Keyboard Stand

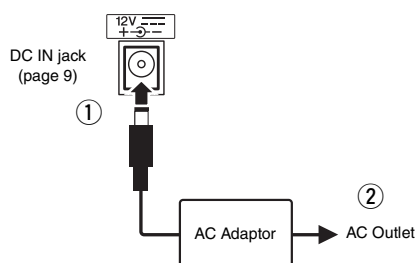


Speakers are built into the instrument at the bottom. Though you can enjoy playing the instrument even when putting it on a desk or table, we recommend that you use an optional keyboard stand for better sound.

Setting Up

Power Requirements

Connect the AC adaptor plugs in the following order.



* The shape of the plug and outlet differs depending on locale.

WARNING

- Use the specified adaptor (page 20) only. Using the wrong adaptor can result in damage to the instrument or overheating.

CAUTION

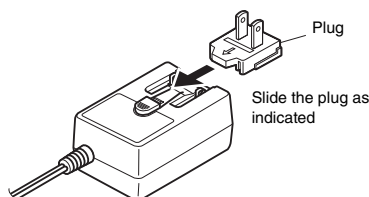
- When setting up the product, make sure that the AC outlet you are using is easily accessible. If some trouble or malfunction occurs, immediately turn off the power switch and disconnect the plug from the outlet.

NOTE

- To disconnect the power adaptor, press the [⏻] (Standby/On) switch and carry out the above procedure in reverse order.

For the Power Adaptor with a Removable Plug

Do not remove the plug from the power adaptor. If the plug is removed accidentally, slide the plug into place without touching the metallic parts, and then push the plug in completely until it clicks.



* The shape of the plug differs depending on locale.

WARNING

- Make sure to keep the plug attached to the AC adaptor. Using the plug alone can cause electric shock or fire.
- Never touch the metallic section when attaching the plug. To avoid electric shock, short circuit or damage, also be careful that there is no dust between the AC adaptor and plug.

Turning the Power On/Off

- 1 Set the volume to the minimum.
- 2 Press the [⏻] (Standby/On) button to turn on the power.



When the power is supplied to the instrument, the power lamp located on the left of the power switch is turned on. While playing the keyboard, adjust the volume level by using the [MASTER VOLUME] slider. To turn off the power, press the [⏻] (Standby/On) switch again for a second.

CAUTION

- Even when the power switch is turned off, electricity is still flowing to the product at the minimum level. When you are not using the product for a long time, make sure to unplug the power cord from the wall AC outlet.

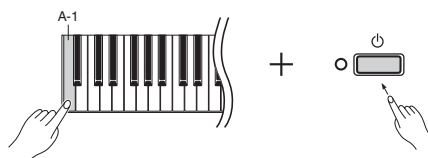
Auto Power Off Function

To prevent unnecessary power consumption, this function automatically turns the power off if no buttons or keys are operated for approximately 30 minutes. If desired, you can disable or enable this function.

To disable the Auto Power Off function:

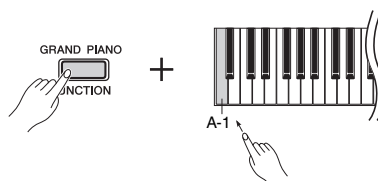
When the instrument is turned off:

While holding down the lowest key (A-1), press the [⏻] (Standby/On) switch to turn on the power so that the power indicator flashes three times, after which the Auto Power Off function is disabled.



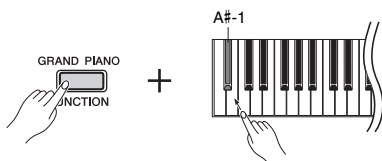
When the instrument is turned on:

While holding down [GRAND PIANO/FUNCTION], press the lowest key (A-1).



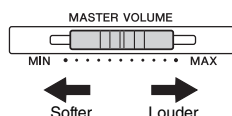
To enable the Auto Power Off function:

While holding down [GRAND PIANO/FUNCTION], press the A#-1 key.



Setting the Volume

When you start playing, use the [MASTER VOLUME] slider to adjust the volume of the entire keyboard sound.



Setting the Operation Confirmation Sounds

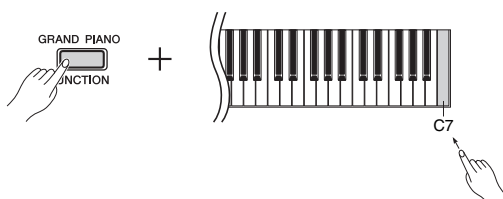
Because of the simple, piano-like design of this instrument, there are a minimum of panel controls, and most settings are made using the keys of the keyboard. When you turn a function on or off, or change a setting, the instrument produces a sound to confirm the change. There are three types of sounds used: an ascending sound for on, a descending sound for off, and clicks for other settings. For the list of functions assigned to the buttons and keys, see “Quick Operation Guide” on page 22.

Setting the Operation Confirmation Sounds On or Off

You can enable or disable the Operation Confirmation Sounds as desired.

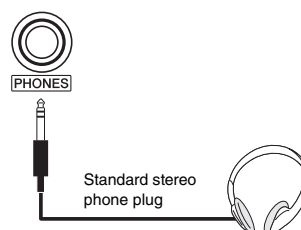
While holding down [GRAND PIANO/FUNCTION], press the C7 key. Every time you press the C7 key, the setting is switched on or off.

Default setting: on



Using Headphones

Any pair of stereo headphones with a 1/4" stereo phone plug can be plugged in here for convenient monitoring. The speakers are automatically shut off when a plug is inserted into this jack.

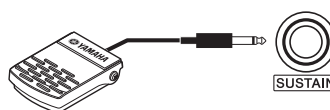


CAUTION

- To protect your hearing, avoid listening with the headphones at a high volume level for long periods of time.

Using a Footswitch

The [SUSTAIN] jack is for connecting the included footswitch, which works in the same way as a damper pedal on an acoustic piano. Also an optional FC3A foot pedal or FC4A or FC5 footswitch can be connected to this jack. The FC3A lets you use the Half Pedal function.



Half Pedal function

If you are playing the piano with sustain and want a clearer, less muddled sound (especially in the bass register), let up on your foot from the pedal to half position or higher.

NOTE

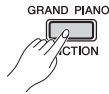
- Do not press the footswitch when turning the power on. Doing this changes the recognized polarity of the footswitch, resulting in reversed footswitch operation.
- Make sure that power is OFF when connecting or disconnecting the footswitch or pedal.

Selecting & Playing Voices

Selecting a Voice

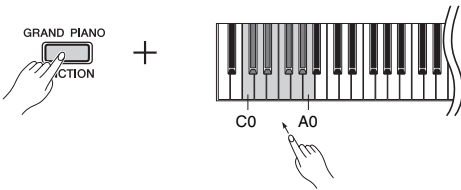
To select the Grand Piano Voice:

Simply press [GRAND PIANO/FUNCTION] to instantly call up the Grand Piano 1 Voice — no matter what other Voice is called up or other settings are made.



To select another Voice:

While holding [GRAND PIANO/FUNCTION], press one of the C0 – A0 keys.



Voice List

Key	Voice Name	Description
C0	GRAND PIANO 1	Recorded samples from a full concert grand piano. Perfect for classical compositions as well as any other style that requires acoustic piano.
C#0	GRAND PIANO 2	Bright piano sound. Clear tone helps the sound to "cut through" when playing in an ensemble.
D0	E. PIANO 1	Vintage electric piano sound of hammer-struck metallic "tines." Soft tone when played lightly, and an aggressive tone when played hard.
D#0	E. PIANO 2	An electronic piano sound created by FM synthesis. Good for standard popular music.
E0	PIPE ORGAN 1	A typical pipe organ sound (8 feet + 4 feet + 2 feet). Good for sacred music from the Baroque period.
F0	PIPE ORGAN 2	This is the organ's full coupler sound, often associated with Bach's "Tocatta and Fugue."
F#0	STRINGS	Spacious and large-scale string ensemble. Try combining this Voice with piano in DUAL.
G0	HARPSICHORD 1	The definitive instrument for baroque music. Authentic harpsichord sound, with plucked strings, no touch response.
G#0	HARPSICHORD 2	Mixes the same Voice an octave higher for a more brilliant, dynamic tone.
A0	VIBRA-PHONE	Played with relatively soft mallets.

After selecting the desired Voice, play the keyboard.

NOTE

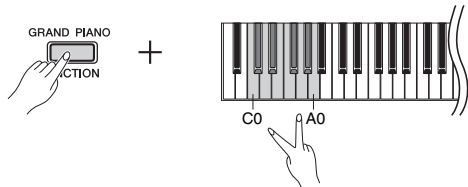
- To familiarize yourself with the characteristics of the Voices, listen to the Demo Songs for each Voice (page 16).
- You can shift the Octave as described in the next column (see "Voice 1").

Layering Two Voices (Dual)

You can play Voices simultaneously across the entire range of the keyboard.

1 Engage Dual.

While holding down [GRAND PIANO/FUNCTION], simultaneously press any two desired keys from C0 – A0.

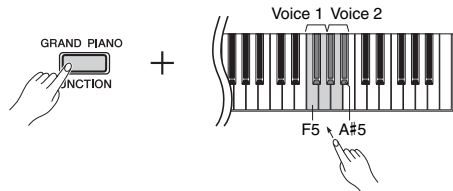


The Voice assigned to the left side key is Voice 1, while the Voice assigned to the right side key is Voice 2.

2 To exit from Dual, simply press [GRAND PIANO/FUNCTION].

To shift the Octave for each Voice:

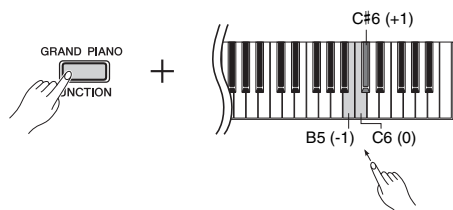
While holding down [GRAND PIANO/FUNCTION], press one of the F5 – A#5 keys.



Voice 1	F5	-1	Voice 2	G#5	-1
	F#5	0		A5	0
	G5	+1		A#5	+1

To adjust the Balance between two Voices:

While holding down [GRAND PIANO/FUNCTION], press the B5 key to decrease by one, C#6 to increase by one, or C6 to set to 0 (equal balance). The setting range is from -6 to +6. Settings above "0" increase the volume of Voice1, and vice versa.

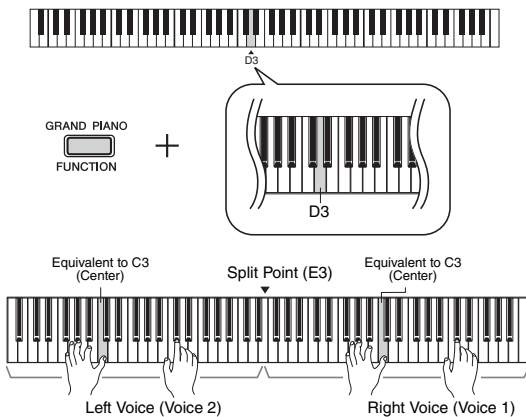


Playing Duo

This function allows two different players to play the instrument, one on the left and the other on the right, over the same octave range.

1 While holding down [GRAND PIANO/FUNCTION], press the D3 key to engage Duo.

The keyboard is divided into the two sections with the E3 key as the Split Point.



NOTE

- The Split Point cannot be changed from E3.
- If the keyboard is in Dual, engaging Duo will exit from Dual. The Voice 1 is used as the Voice of the entire keyboard.
- Changing the Voice will exit from Duo.

2 One person can play the left section of the keyboard while the other plays the right.

Sounds played with the left voice are played from the left speaker, and sounds played with the right voice are played from the right speaker.

3 To exit from Duo, press the D3 key while holding [GRAND PIANO/FUNCTION] again.

To shift the Octave for each Voice:

Same as in Dual (page 12).

Pedal function in Duo

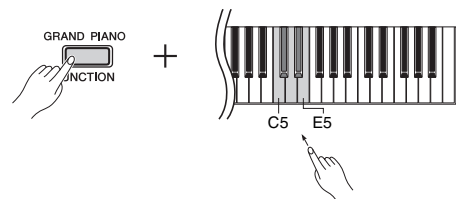
The Footswitch connected to the [SUSTAIN] jack affects both Right and Left sections.

Adding Variations to the Sound – Reverb

This instrument features several Reverb Types that add extra depth and expression to the sound to create a realistic acoustic ambience. Although the appropriate Reverb Type is called up automatically when you select each of the Voices, you can change the Reverb Type as desired.

To select a Reverb Type:

While holding down [GRAND PIANO/FUNCTION], press one of the C5 – E5 keys.



Reverb Type List

Key	Reverb Type	Description
C5	Room	Adds a continuous reverb effect to the sound, similar to the acoustic reverberation you would hear in a room.
C#5	Hall1	For a bigger reverb sound. This effect simulates the natural reverberation of a small-size concert hall.
D5	Hall2	For a truly spacious reverb sound. This effect simulates the natural reverberation of a large concert hall.
D#5	Stage	Simulates the reverb of a stage environment.
E5	Off	No effect is applied.

NOTE

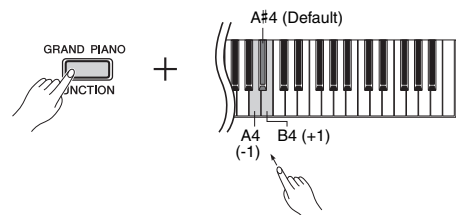
- In Dual, the Reverb Type for Voice 1 is called up by default. If "OFF" is assigned to Voice 1, the Reverb Type for the Voice 2 is called up.

To adjust Reverb Depth:

While holding down [GRAND PIANO/FUNCTION], press the A4 key to decrease by one, B4 to increase by one, or A#4 to reset to the default value (most suitable value for the current Voice). The higher the value, the deeper the effect.

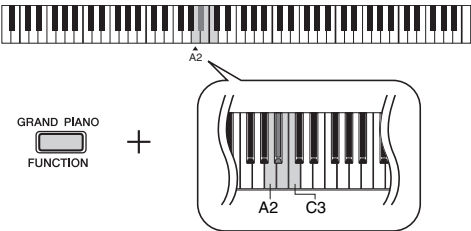
Default setting: the setting best suited for the current Voice

Setting range: 0 (no effect) – 10 (maximum depth)



Setting the Touch Sensitivity

You can specify the Touch Sensitivity (how the sound responds to your playing strength). While holding down [GRAND PIANO/FUNCTION], press one of the A2 – C3 keys.



Touch Sensitivity

Key	Touch Sensitivity	Description
A2	Fixed	The volume level does not change at all regardless of whether you play the keyboard soft or hard.
A#2	Soft	The volume level does not change much when you play the keyboard soft or hard.
B2	Medium	This is the standard piano touch response (default setting).
C3	Hard	The volume level changes very widely from pianissimo to fortissimo to facilitate dynamic and dramatic expression. You have to hit the keys hard to produce a loud sound.

NOTE

- The Touch Sensitivity settings may have little or no effect with the PIPE ORGAN and HARPSICHORD Voices, since these instruments are not normally responsive to keyboard dynamics.

Transposing the Pitch in Semitones

You can shift the pitch of the entire keyboard up or down in semitone in order to facilitate playing in difficult key signatures, or to easily match the pitch of the keyboard to the range of a singer or other instruments. For example, if “+5” is selected, playing key C produces pitch F, letting you play a song of F major as though it were in C major.

Setting range: -6 – 0 – +6

To transpose the pitch down:

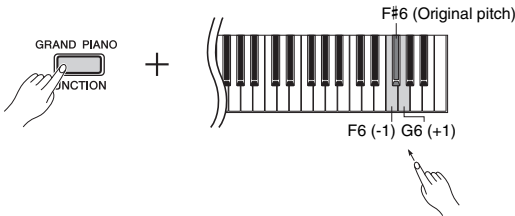
While holding down [GRAND PIANO/FUNCTION], press the F6 key to decrease by 1 semitone.

To transpose the pitch up:

While holding down [GRAND PIANO/FUNCTION], press the G6 key to increase by 1 semitone.

To restore the original pitch:

While holding down [GRAND PIANO/FUNCTION], press the F#6 key.



Fine-tuning the Pitch

You can fine tune the pitch of the entire instrument in approximately 0.2 Hz increments. This lets you match the keyboard pitch finely to that of other instruments or CD music.

Setting range: 414.8 – 440.0 – 466.8 Hz

To lower the pitch:

While holding down [GRAND PIANO/FUNCTION], press the G#6 key repeatedly to lower the pitch in approximately 0.2 Hz increments.

To raise the pitch:

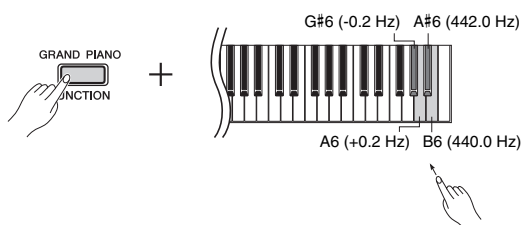
While holding down [GRAND PIANO/FUNCTION], press the A6 key repeatedly to raise the pitch in approximately 0.2 Hz increments.

To set the pitch to A3 = 442.0 Hz:

While holding down [GRAND PIANO/FUNCTION], press the A#6 key.

To reset the pitch to the default (A3 = 440.0 Hz):

While holding down [GRAND PIANO/FUNCTION], press the B6 key.



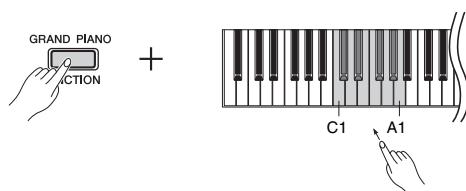
Playing Back Songs

Listening to the Voice Demo Songs

Demo Songs are provided for each of the Voices such as Piano and Organ.

- 1 While holding down [GRAND PIANO/FUNCTION], press one of the C1 – A1 keys to start playback.

This operation starts playback of the Demo Song of the Voice assigned to the pressed key. Starting with the selected Song, playback will continue in sequence.



NOTE

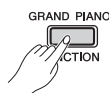
- The keyboard Voice is automatically set to correspond to that of the current Demo Song. If you select another Voice during playback, the Demo Song will automatically change to that corresponding to the selected new Voice.

Demo Song List

Key	Voice Name	Title	Composer
C1	GRAND PIANO 1	Original	Original
C#1	GRAND PIANO 2	Original	Original
D1	E. PIANO 1	Original	Original
D#1	E. PIANO 2	Original	Original
E1	PIPE ORGAN 1	Original	Original
F1	PIPE ORGAN 2	Original	Original
F#1	STRINGS	Original	Original
G1	HARPSICHORD 1	Gavotte	J.S. Bach
G#1	HARPSICHORD 2	Invention No. 1	J.S. Bach
A1	VIBRAPHONE	Original	Original

The demonstration pieces listed above are short rearranged excerpts of the original compositions. All other songs are original (© 2014 Yamaha Corporation).

- 2 Press [GRAND PIANO/FUNCTION] again to stop playback.



To adjust the playback tempo:

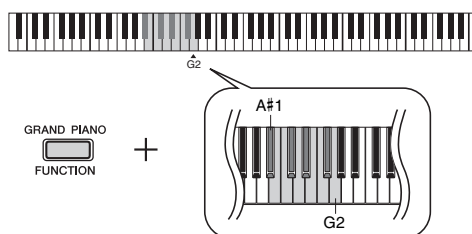
The operation is same as that of the Metronome Tempo (page 17).

Listening to the Piano Songs (Preset Songs)

In addition to the Demo Songs, Preset Songs are provided for your listening pleasure.

- 1 While holding down [GRAND PIANO/FUNCTION], press one of the A#1 – G2 keys to start playback.

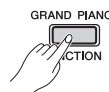
Starting with the selected Song, playback will continue in sequence.



Preset Song List

Key	No.	Title	Composer
A#1	1	Menuett G dur BWV.Anh.114	J.S. Bach
B1	2	Turkish March	W.A. Mozart
C2	3	Für Elise	L.v. Beethoven
C#2	4	Valse op.64-1 "Petit chien"	F.F. Chopin
D2	5	Träumerei	R. Schumann
D#2	6	Dolly's Dreaming and Awakening	T. Oesten
E2	7	Arabesque	J.F. Burgmüller
F2	8	Humoresque	A. Dvořák
F#2	9	The Entertainer	S. Joplin
G2	10	La Fille aux Cheveux de Lin	C.A. Debussy

- 2 Press [GRAND PIANO/FUNCTION] again to stop playback.



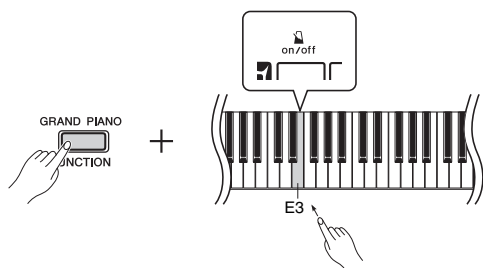
To adjust the playback tempo:

The operation is same as that of Metronome Tempo (page 17).

Using the Metronome

The metronome is convenient for practicing with an accurate tempo.

- 1 While holding down [GRAND PIANO/FUNCTION], press the E3 key to start the Metronome.



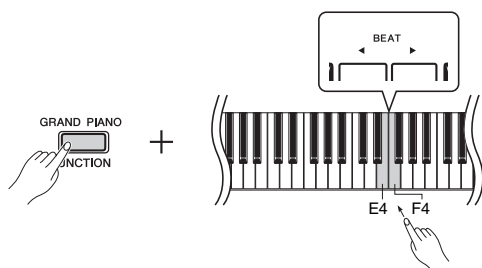
- 2 Execute the same operation again to stop the Metronome.

NOTE

- Pressing only [GRAND PIANO/FUNCTION] also stops the Metronome, but it also resets to the Grand Piano Voice.

Selecting a Beat

While holding down [GRAND PIANO/FUNCTION], press the E4 key to decrease the value, or the F4 key to increase the value. The default value is “no beat.” When a value other than “no beat” is selected, the first beat is accented with a bell sound.

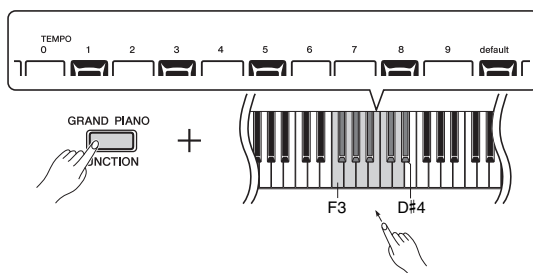


Adjusting the Tempo

While holding down [GRAND PIANO/FUNCTION], press the F3 – D4 keys (to which numbers 0 – 9 are assigned individually) to specify the three-digit value as a Tempo of the Metronome and Song. To specify “95,” for example, press the F3 (0), D4 (9) and A#3 (5) keys in order while holding down [GRAND PIANO/FUNCTION].

Default setting (Metronome): 120

Setting range: 32 – 280



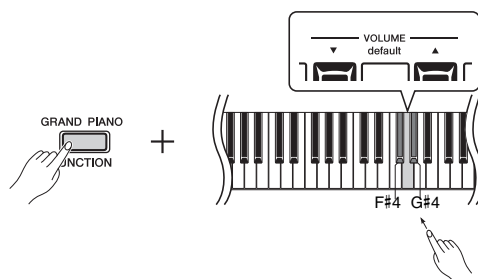
To restore the default value:

While holding down [GRAND PIANO/FUNCTION], press the D#4 key.

Adjusting the Volume of the Metronome

While holding down [GRAND PIANO/FUNCTION], press the F#4 key to decrease the volume of the Metronome, the G#4 key to increase the volume, or the G4 to restore the default volume (10).

Setting range: 1 – 20



Connecting Other Equipment

⚠ CAUTION

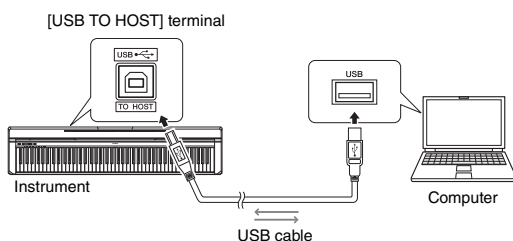
- Before connecting the instrument to other electronic components, turn off the power to all the components. Before turning the power on or off to all components, set all volume levels to minimum (0). Otherwise, electrical shock or damage to the components may result.

Connecting an iPad or iPhone

With an iPad or iPhone connected to your digital piano, you can use a wide range of apps to expand the functionality of your instrument in exciting new ways. For details on how to connect the devices, refer to the “iPhone/iPad Connection Manual,” which you can download for free from the Yamaha web site.

Connecting to a computer

By connecting a computer to the [USB TO HOST] terminal, you can take advantage of various music software with your computer and the instrument. For details on using a computer with this instrument, refer to the “Computer-related Operations” on the website.



NOTE

- Use an AB type USB cable. When connecting a USB cable, make sure that the length is less than 3 meters.

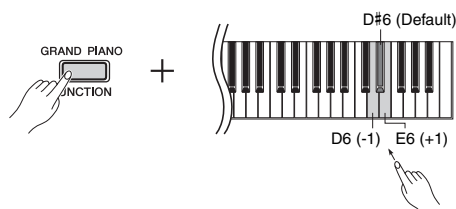
MIDI Settings

Setting the MIDI Transmit Channels

In any MIDI control setup, the MIDI channels of the transmitting and receiving devices must be matched for proper data transfer. You can specify the channel on which this instrument transmits MIDI data. To do this, while holding down [GRAND PIANO/FUNCTION], press one of the D6 – E6 keys. The D6 key decreases the value by 1, the E6 key increases the value by 1, and the D#6 key restores the default value (channel 1).

Setting range: 1 – 16

Default value: 1



NOTE

- In Dual, the keyboard performance via Voice 1 is transmitted on the specified MIDI Transmit Channel and the keyboard performance via Voice 2 is transmitted on the next channel number in sequence (specified channel + 1).
- No MIDI messages are output during playback of the Demo Song or Preset Song.

Other MIDI Settings

The MIDI settings other than the Transmit Channel are set as listed below, and cannot be changed.

■ MIDI Receive Channels:

..... All channels (1 – 16)

■ Local Control: On

■ Program Change Transmit/Receive: Yes

■ Control Change Transmit/Receive: Yes

Data Backup and Initializing

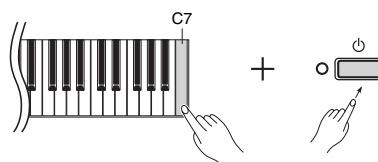
The following data will automatically be maintained as backup data even if you turn off the power.

Backup data

Metronome Volume, Metronome Beat, Touch Sensitivity, Tuning, Auto Power Off, Operation Confirmation Sounds on/off

To initialize the backup data:

While holding down the C7 key (right-most key), turn the power on to initialize the backup data to the factory initial settings.



The power lamp flashes, indicating that the initialization is being executed.

NOTICE

- *Never turn off the power while the initialization is being executed.*

NOTE

- If this instrument somehow malfunctions or fails to operate properly, try executing the initialization.

Troubleshooting

Problem	Possible Cause and Solution
The instrument does not turn on.	The instrument has not been plugged in properly. Securely insert the female plug into the jack on the instrument, and the male plug into a proper AC outlet (page 10).
The instrument is automatically turned off even if no operation is done.	This is normal. This occurs due to the Auto Power Off function (page 10).
Noise is heard from the speakers or headphones.	The noise may be due to interference caused by the use of a mobile phone in close proximity to the instrument. Turn off the mobile phone, or use it further away from the instrument.
Noise can be heard coming from the digital piano's built-in speakers and/or headphones when using it with an iPhone/iPad/iPod touch app.	In order to eliminate the risk of noise from other communication when using the instrument with an iPhone, iPad, or iPod touch, we recommend turning on the device's Airplane Mode.
The overall volume is low, or no sound is heard.	The Master Volume is set too low; set it to an appropriate level using the [MASTER VOLUME] slider (page 11).
	Make sure a pair of headphones or conversion adaptor is not connected to the headphones jack (page 11).
The pedal has no effect.	The pedal cable/plug may not be properly connected. Make sure to securely insert the pedal plug into the [SUSTAIN] jack (page 11).
The footswitch (for sustain) seems to produce the opposite effect. For example, pressing the footswitch cuts off the sound and releasing it sustains the sounds.	The polarity of the footswitch is reversed because the footswitch was pressed when the power was turned on. Turn off the power and turn it on again to reset the function. Make sure to not press the footswitch when turning the power on.

Specifications

Dimensions (W x D X H)

- 1,326 x 295 x 154 mm (52-3/16" x 11-5/8" x 6-1/16")

Weight

- 11.5 kg (25 lbs. 6 oz.)

Keyboards

- 88 keys (A-1 – C7)
- GHS (Graded Hammer Standard) keyboard with matte black keytops
- Touch Sensitivity (Hard, Medium, Soft, Fixed)

Tone Generation / Voice

- AWM Stereo Sampling
- 10 Preset Voices
- Polyphony: 64

Effects/Functions

- 4 Reverb types
- Dual
- Duo

Song Playback

- 10 Voice Demo Songs + 10 Piano Preset Songs

Overall Controls

- Metronome
- Tempo: 32 – 280
- Transpose: -6 – 0 – +6
- Fine Tuning: 414.8 – 440.0 – 466.8 Hz

Connectivity

- DC IN (12V), PHONES, SUSTAIN, USB TO HOST

Amplifiers

- 6 W + 6 W

Speakers

- 12 cm x 2

Power Supply

- AC Adaptor PA-150 or an equivalent recommended by Yamaha
- Power Consumption: 6 W (When using PA-150 adaptor)
- Auto Power Off Function

Included Accessories

- Owner's Manual, Music Rest, AC Adaptor PA-150 or an equivalent recommended by Yamaha*, Online Member Product Registration**, Footswitch
- * May not be included depending on your particular area. Please check with your Yamaha dealer.
- ** The PRODUCT ID on the sheet will be needed when you fill out the User Registration form.

Separately Sold Accessories

- Keyboard Stand L-85, Foot Pedal FC3A, Footswitch FC4A/FC5, Headphones (HPE-30/HPE-150), USB MIDI Interface for iPhone/iPod touch/iPad (i-UX1), AC Adaptor (Users within U.S or Europe: PA-150 or an equivalent recommended by Yamaha, Others: PA-5D, PA-150 or an equivalent)

* The contents of this manual apply to the latest specifications as of the printing date. Since Yamaha makes continuous improvements to the product, this manual may not apply to the specifications of your particular product. To obtain the latest manual, access the Yamaha website then download the manual file. Since specifications, equipment or separately sold accessories may not be the same in every locale, please check with your Yamaha dealer.

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Quick Operation Guide

While holding down the [GRAND PIANO/FUNCTION] button, press the highlighted keys shown below to select preset songs, etc. or set parameters.
(Refer to diagram below.)

GRAND PIANO FUNCTION		+	
Voice		Voice Demo	
Preset Song		Touch Sensitivity	
Tempo		Metronome	
Reverb Depth		Reverb Type	
Octave Setting		Balance between Voice 1 and Voice 2	
MIDI Transmit Channel		Transpose	
Tuning			
Auto Power Off Disable		Auto Power Off Enable	
GRAND PIANO 1		GRAND PIANO 2	
E. PIANO 1		E. PIANO 2	
PIPE ORGAN 1		PIPE ORGAN 2	
PIPE ORGAN 2		STRINGS	
HARPSICHORD 1		HARPSICHORD 2	
VIBRAPHONE			
GRAND PIANO 1		GRAND PIANO 2	
E. PIANO 1		E. PIANO 2	
PIPE ORGAN 1		PIPE ORGAN 2	
PIPE ORGAN 2		STRINGS	
HARPSICHORD 1		HARPSICHORD 2	
VIBRAPHONE		Song 1	
Song 2			
Song 3		Song 4	
Song 5		Song 6	
Song 7			
Song 8		Song 9	
Song 10			
Fixed		Soft	
Medium			
Hard			
Duo ON/OFF			
METRONOME ON/OFF			
Number key 0		Number key 1	
Number key 2		Number key 3	
Number key 4		Number key 5	
Number key 6			
Number key 7		Number key 8	
Number key 9		Default Tempo	
Decrease Beat by one step			
Increase Beat by one step		Decrease Volume by one step	
Default Volume		Increase Volume by one step	
Decrease Depth by one step		Default Depth	
Increase Depth by one step			
Room		Hall 1	
Hall 2		Stage	
OFF			
-1 (Voice 1)		0 (Voice 1)	
+1 (Voice 1)		-1 (Voice 2)	
0 (Voice 2)		+1 (Voice 2)	
Decrease Volume by one step			
0 (equal balance)		Increase Volume by one step	
Decrease by one step		Default	
Increase by one step			
Decrease by one step		0 (Default)	
Increase by one step		Decrease by approx. 0.2 Hz	
Increase by approx. 0.2 Hz		A3 = 442.0 Hz	
A3 = 440.0 Hz			
Operation Confirmation Sounds ON/OFF			

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