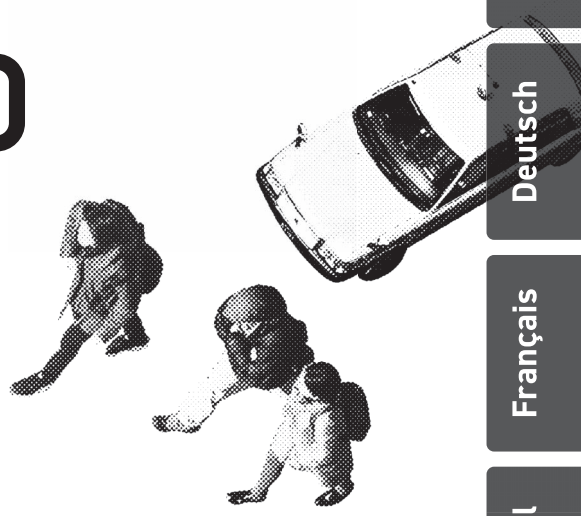
YAMAHA

DIGITAL KEYBOARD / CLAVIER NUMÉRIQUE / TECLADO DIGITAL
ЦИФРОВОЙ КЛАВИШНЫЙ ИНСТРУМЕНТ / 电子琴 / 디지털 키보드

PSS-A50



Owner's Manual
Benutzerhandbuch
Mode d'emploi
Manual de instrucciones
Руководство пользователя
使用说明书
사용설명서

English
Deutsch
Français
Español
Русский
中文
한국어

Before using the instrument, be sure to read "PRECAUTIONS" on pages 4-5.
Lesen Sie vor der Verwendung des Instruments unbedingt die „VORSICHTSMASSNAHMEN" auf den Seiten 4-5.
Avant d'utiliser l'instrument, lisez attentivement la section « PRÉCAUTIONS D'USAGE » aux pages 4 et 5.
Antes de utilizar el instrumento, lea las "PRECAUCIONES", en las páginas 4-5.
Перед началом работы с инструментом прочитайте раздел « ПРАВИЛА ТЕХНИКИ БЕЗОПАСНОСТИ » на стр. 4-5.
使用本乐器之前，务必阅读第4 - 5页上的 "注意事项" 。
악기를 사용하기 전에 본 설명서 4~5페이지의 "안전 주의사항"을 반드시 읽으시기 바랍니다.

EN/DE/FR/ES/RU/ZH/KO

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.**

(1003-M06 plate bottom en 01)

Die Nummer des Modells, die Seriennummer, der Leistungsbedarf usw. sind auf dem Typenschild, das sich auf der Unterseite des Geräts befindet, oder in der Nähe davon angegeben. Sie sollten diese Seriennummer an der unten vorgesehenen Stelle eintragen und dieses Handbuch als dauerhaften Beleg für Ihren Kauf aufbewahren, um im Fall eines Diebstahls die Identifikation zu erleichtern.

Modell Nr. **Seriennr.**

(1003-M06 plate bottom de 01)

Le numéro de modèle, le numéro de série, l'alimentation requise, etc., se trouvent sur ou près de la plaque signalétique du produit, située dans la partie inférieure de l'unité. Notez le numéro de série dans l'espace fourni ci-dessous et conservez ce manuel en tant que preuve permanente de votre achat afin de faciliter l'identification du produit en cas de vol.

N° de modèle **N° de série**

(1003-M06 plate bottom fr 01)

El número de modelo, el número de serie, los requisitos de alimentación, etc. pueden encontrarse en la placa de identificación o cerca de ella. Esta placa se encuentra en la parte inferior de la unidad. Debe anotar dicho número en el espacio proporcionado a continuación y conservar este manual como comprobante permanente de su compra para facilitar la identificación en caso de robo.

Nº de modelo **Nº de serie**

(1003-M06 plate bottom es 01)

Номер модели, серийный номер, требования к источнику питания и пр. указаны на табличке с названием изделия в нижней части устройства или рядом с ней. Запишите серийный номер в расположенном ниже поле и сохраните данное руководство как подтверждение покупки; это поможет идентифицировать принадлежность устройства в случае кражи.

Номер модели. **Серийный номер.**

(1003-M06 plate bottom ru 01)

本产品的型号、序列号、电源要求等规格可能标在铭牌上或铭牌附近，铭牌位于本机底部。请将该序列号填写到下方的横线上，并妥善保存 本说明书，以便在产品被盗时作为永久购买凭证使用。

型号名称 **序列号**

(1003-M06 plate bottom zh 01)

본 제품의 모델 번호, 일련 번호, 전원 규격 등은 기기 밑면에 있는 명판이나 명판 주위에서 확인할 수 있습니다. 도난 시 확인할 수 있도록 일련 번호를 아래 공란에 기입하고 본 사용설명서를 구매 기록으로 영구 보관해야 합니다.

모델 번호 **일련 번호**

(1003-M06 plate bottom ko 01)

FCC INFORMATION (U.S.A.)

1. **IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!** This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.
2. **IMPORTANT:** When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.
3. **NOTE:** This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices. Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

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

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

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

   If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Corporation of America, Electronic Service Division, 6600 Orangethorpe Ave, Buena Park, CA90620

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

* This applies only to products distributed by YAMAHA CORPORATION OF AMERICA. (class B)

COMPLIANCE INFORMATION STATEMENT
(Supplier's declaration of conformity procedure)

Responsible Party : Yamaha Corporation of America
Address : 6600 Orangethorpe Ave., Buena Park, Calif. 90620
Telephone : 714-522-9011
Type of Equipment : Digital Keyboard
Model Name : PSS-A50

This device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions:
1) this device may not cause harmful interference, and
2) this device must accept any interference received including interference that may cause undesired operation.

* This applies only to products distributed by Yamaha Corporation of America. (FCC SDoC)

PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

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

⚠ *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

- Do not place the USB cable near heat sources such as heaters or radiators. Also, do not excessively bend or otherwise damage the cable, 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.
- Included USB cable is designed for use with only this instrument. Do not use for any other instrument.
- Check the 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 disconnect the plug from the AC outlet. Then have the instrument inspected by qualified Yamaha service personnel.
- Never insert or remove a 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.

Influences on electro-medical devices

- Magnetism may affect electro-medical devices.
  - Do not use this product near medical devices or inside areas in which the use of radio waves is restricted.
  - Do not use this product within 15cm (6 in.) of persons with a heart pacemaker or defibrillator implant.

Battery

- Follow the precautions below. Failure to do so might result in explosion, fire, overheating or battery fluid leakage.
  - Do not tamper with or disassemble batteries.
  - Do not dispose of batteries in fire.
  - Do not attempt to recharge batteries that are not designed to be charged.
  - Keep the batteries separate from metallic objects such as necklaces, hairpins, coins, and keys.
  - Use the specified battery type (page 13) only.
  - Use new batteries, all of which are the same type, same model, and made by the same manufacturer.
  - Always make sure all batteries are inserted in conformity with the +/- polarity markings.
  - When the batteries run out, or if the instrument is not to be used for a long time, remove the batteries from the instrument.
  - When using Ni-MH batteries, follow the instructions that came with the batteries. Use only the specified charger device when charging.
- Keep batteries away from small children who might accidentally swallow them.
- If the batteries do leak, avoid contact with the leaked fluid. If the battery fluid should come in contact with your eyes, mouth, or skin, wash immediately with water and consult a doctor. Battery fluid is corrosive and may possibly cause loss of sight or chemical burns.

If you notice any abnormality

- When one of the following problems occur, immediately turn off the power switch and disconnect the plug from the outlet. (If you are using batteries, remove all batteries from the instrument.) Then have the device inspected by Yamaha service personnel.
  - The USB cable 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.
  - If any cracks or breakages exist on the instrument.

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⚠ 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

- Use the specified USB power adaptor (page 7) only. Using the wrong adaptor can result in damage to the instrument or overheating.
- 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 plug from the instrument or an outlet, always hold the plug itself and not the USB cable. Pulling by the cable can damage it.
- Remove the 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 disconnect the plug from the wall AC outlet.

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 [⏻] (Standby/On) switch is in standby status (display 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 disconnect the plug from the wall AC outlet.

Make sure to discard used batteries according to local regulations.

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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.
- 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 and dry cloth. Do not use paint thinners, solvents, alcohol, cleaning fluids, or chemical-impregnated wiping cloths.

■ Saving data

- Some of the data of this instrument (page 13) are retained when the power is turned off. However, the saved data may be lost due to some failure, an operation mistake, etc.

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 contents in which Yamaha owns copyrights or with respect to which Yamaha has license to use others' copyrights. Due to copyright laws and other relevant laws, you are NOT allowed to distribute media in which these contents are saved or recorded and remain virtually the same or very similar to those in the product.
  - * The contents described above include a computer program, Accompaniment Style data, MIDI data, WAVE data, voice recording data, a score, score data, etc.
  - * You are allowed to distribute medium in which your performance or music production using these contents is recorded, and the permission of Yamaha Corporation is not required in such cases.

■ About this manual

- The illustrations and displays as shown in this manual are for instructional purposes only, and may appear somewhat different from those on your instrument.
- The company names and product names in this manual are the trademarks or registered trademarks of their respective companies.

Thank you for purchasing this Yamaha Digital Keyboard!
This instrument provides powerful performance features including versatile effects and sounds enjoyable even for beginners. 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

In addition to this Owner's Manual, the following Online document (PDF file) is available.

MIDI Reference
Contains MIDI-related information, such as the MIDI Implementation Chart.

To obtain this document, access the Yamaha Downloads website, then enter the model name for searching the desired files.

Yamaha Downloads
http://download.yamaha.com/

Included Accessories

- Owner's Manual (this book) (1)
- USB cable (1)
- Online Member Product Registration (1)

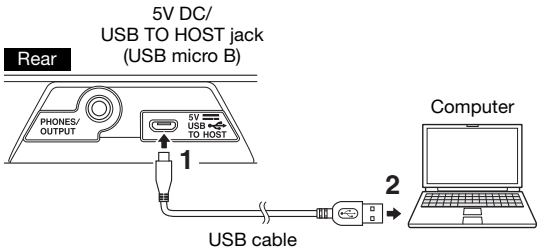
Setting Up

Depending on how you are powering your instrument, follow one of the three power supply instructions below. The PSS-A50 does not include power supply accessories (with the exception of the USB cable), so make sure to purchase them separately as required.

1 Using USB Bus Power

USB bus power
This instrument is a bus-powered type device which can be powered by a computer connected via the USB cable.

Connect the included USB cable in the order shown in the illustration.

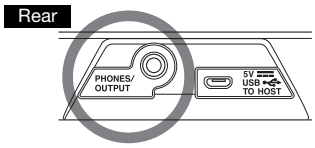


When disconnecting the USB cable, first turn off the power, then follow the order shown above in reverse.

PHONES/OUTPUT Jack

CAUTION

- ***Before using the headphones, be sure to set the volume of the instrument at the minimum level. Then gradually raise the volume while playing the instrument, for your ear comfort and safety.***



For connecting a set of stereo headphones with a stereo mini plug. This jack also functions as an external output for sending the audio signal of this instrument to external audio equipment.
The speakers of the instrument are automatically shut off when a headphones plug, etc. is inserted into this jack.

CAUTION

- ***Do not use the instrument or headphones for a long period of time at a high or uncomfortable volume level, since this can cause permanent hearing loss.***
- ***Before connecting the instrument to other electronic components, make sure to set all volume levels to minimum, then turn off the power of all the components. Otherwise, damage to the components or electrical shock may occur.***

NOTICE

- ***To avoid possible damage to the external device, first turn on the power to the instrument, then to the external device. When turning off the power, do so in reverse order: first turn off the power to the external device, then to the instrument.***

NOTICE

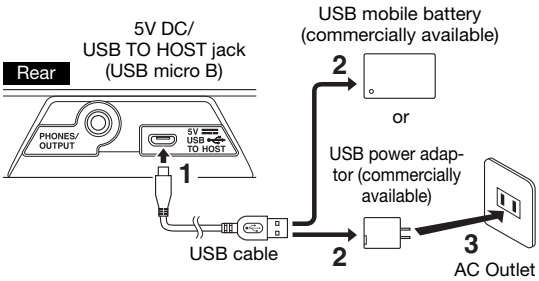
- ***Use a USB cable of less than 3 meters. If the sound is degraded, make sure to use the included USB cable or turn down the master volume as needed.***

NOTE

- *Power will be automatically drawn from the USB cable if a USB cable is connected while batteries are installed in the instrument.*

2 Using a USB Power Adaptor or USB Mobile Battery

Connect the included USB cable and the USB power adaptor (or USB mobile battery) sold separately in the order shown in the illustration.



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

When disconnecting the USB cable or so, first turn off the power, then follow the order shown above in reverse.

USB Power adaptor / USB mobile battery requirements

- Output voltage: 4.8 V to 5.2 V
- Output current: 0.5 A or greater

CAUTION

- ***Make sure to use a USB power adaptor or USB mobile battery with the specifications above. Using the wrong USB power adaptor can result in damage to the instrument or overheating.***
  Read the safety precautions for your particular USB power adaptor or USB mobile battery.

NOTICE

- ***Some USB mobile batteries automatically stop supplying power when connected to a device with low current consumption, such as this instrument.***
  Use a USB mobile battery that has a low-current mode function, etc., and can supply power to devices with current consumption of 40 mA or less.
- ***When the instrument is turned on and power turns off suddenly and unexpectedly, your USB power adaptor may not meet the requirements or may be damaged. Try using another USB power adaptor that meets the requirements, etc. If it should appear to be malfunctioning, please consult Yamaha service personnel.***

3 Using Batteries

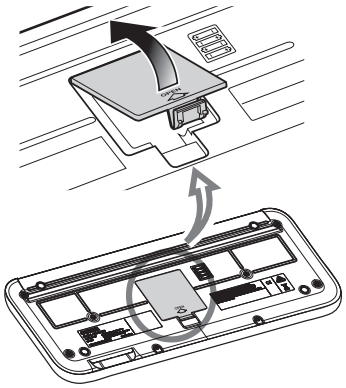
This instrument requires four “AA” size, Alkaline (LR6)/Manganese (R6) batteries, or rechargeable nickel-metal hydride batteries (rechargeable Ni-MH batteries). The Alkaline batteries or rechargeable Ni-MH batteries are recommended for this instrument, since other types may result in poorer battery performance.

WARNING

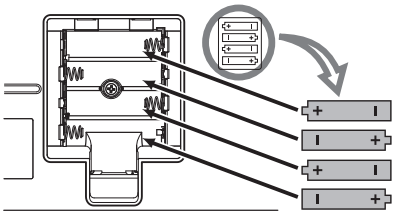
- ***See the “Battery” section in the Precautions (pages 4–5).***

1 Make sure that the power of the instrument is off.

2 Open the battery compartment cover located on the instrument’s bottom panel.



3 Insert the four new batteries, being careful to follow the polarity markings on the inside of the compartment.



4 Replace the compartment cover, making sure that it locks firmly in place.

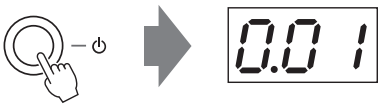
NOTICE

- ***Make sure to set the Battery Type correctly (page 12). Failure to set the battery type may shorten the amount of the battery life.***
- ***Connecting or disconnecting the USB cable with batteries installed may turn the power off, resulting in loss of data being recorded at the time.***

Turning the Power On/ Standby

Turning the power on

Press the [⏻](Standby/On) switch.



The display lights.

Turning the power to Standby

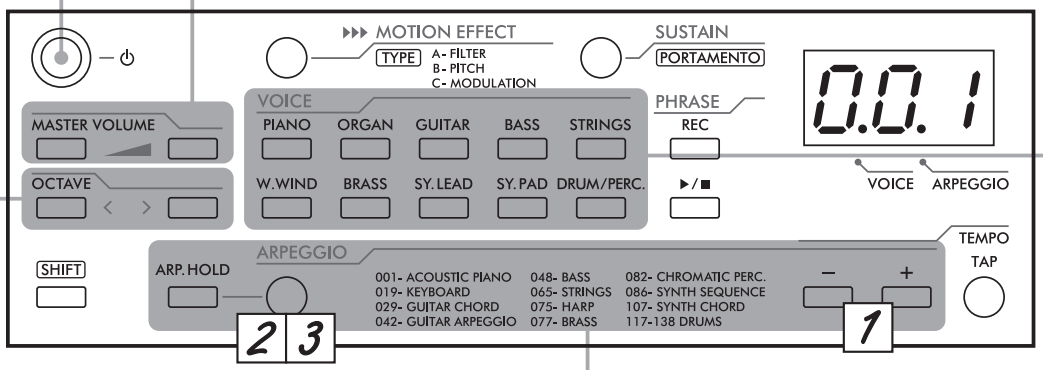
Press the [⏻](Standby/On) switch for a second.

Adjusting the Master Volume

Volume range: 00–15 (default: 13)

NOTE

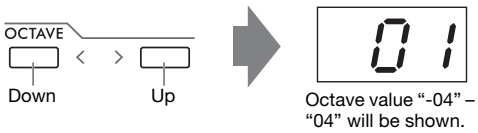
- *Volume will be reset to the default value of 13 when "Initialization" (page 13) is done.*



Octave Shift

You can shift the pitch up or down in octave steps.

Changing the pitch



Octave value "-04" – "04" will be shown.

NOTE

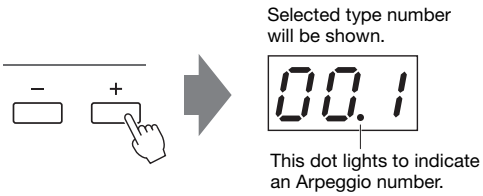
- *To reset the octave setting to the default value of "00," press the OCTAVE buttons simultaneously.*
- *When the Octave setting is -03, -04, +03 or +04, some Voice sounds too soft to hear, or the pitch in one octave sounds same as other (up or down) octave.*

Arpeggio

This function lets you automatically trigger musical and rhythmic phrases and backing patterns by simply pressing a key or keys on the keyboard.

1 Select an Arpeggio type.

Use the [-] and [+] buttons.

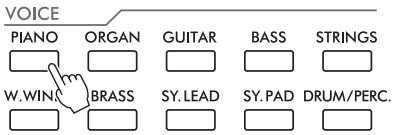


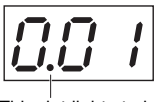
NOTE

- *Refer to the Arpeggio category list on the panel.*
- *Holding down the [-] or [+] button continuously decreases or increases the value. While holding down the [SHIFT] button, each press of the [-] or [+] button jumps to each Arpeggio category top.*
- *No. 117–138 are drum patterns. Play with a Drum Kit Voice and "Hold" (page 9) to use it as a rhythm track.*
- *Selecting a Voice automatically selects the optimum Arpeggio type for the Voice.*

Selecting the Keyboard Sound (Voice)

VOICE buttons





Selected Voice number will be shown.

This dot lights to indicate a Voice number.

Various instrumental Voices are categorized and assigned to the Voice buttons. Pressing the same Voice button repeatedly selects the assigned Voices in order.

NOTE

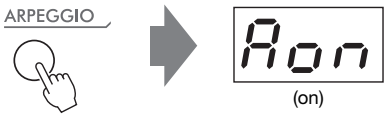
- *For specific Voice names, refer to page 14.*
- *Voice numbers 039 and 040 in the [DRUM/PERC.] button are Drum Kit Voice. Various drum and percussion sounds are assigned to individual keys, from which they can be played. For details on the instruments and key assignments of each Drum Kit, see page 16.*

If you can't hear any sound or the sound is too soft, try the following.

- Increase the volume.
- Disconnect the headphones from the PHONES/OUTPUT terminal.
- Set Local Control to On (page 12.)
- Replace all the batteries with new ones or recharged ones (page 7.)
- Reset the Octave setting to the default value of 00.

2 Start the Arpeggio sequence.

Press the [ARPEGGIO] button.



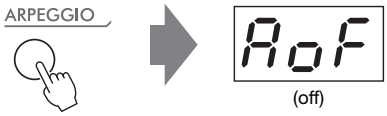
(on)

Hold keys to start Arpeggio sequence.

The Arpeggio sequence changes in response to the actual notes or chords you play.

3 Turn off Arpeggio

Press the [ARPEGGIO] button.

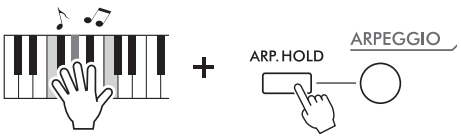


(off)

Arpeggio Hold

The Arpeggio cycles automatically, even if you release your fingers from the keys. You can play the keys over the Arpeggio sound.

Press [ARP. HOLD] button while the Arpeggio is playing.



To disable Arpeggio Hold, press the [ARP. HOLD] button again.

NOTE

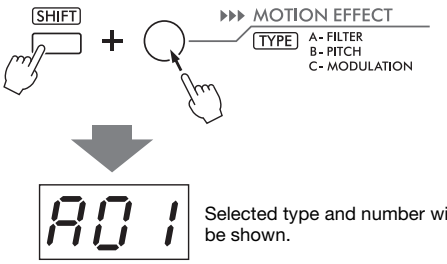
- *During Arpeggio Hold, you can change Arpeggio phrases by pressing desired keys while holding down the [ARP. HOLD] button.*
- *When Arpeggio Hold is disabled, the last Voice selected before entering Arpeggio Hold will be called up.*

Motion Effect

While holding down the [MOTION EFFECT] button, Motion Effect applies to the notes you play. Motion Effect has three types A, B and C, and correspondingly changes the Filter, Pitch, and/or Modulation of the sound over time. Each type has around 10 variations.

Selecting a Desired Type

While holding down the [SHIFT] button, each press of the [MOTION EFFECT] button selects the type in order (A01, A02, etc.).



Selected type and number will be shown.

NOTE

- *To jump to the top of the A, B or C type in order, hold down the [MOTION EFFECT] button while holding down the [SHIFT] button.*
- *Certain combinations of a specific Voice, octave and type may generate noise.*

[SHIFT] button

- Sets the various setting of the instrument (page 12: keyboard settings)
- Selects the function boxed. (TYPE of Motion Effect; [TYPE], PORTAMENTO; [PORTAMENTO])

Recording/Playing

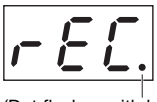
You can record your performance (Phrase Recording). Note that the previously recorded data will be erased since only one recording is available.

1 Recording Standby
Press [REC].

(Recording Standby)

To exit from Recording Standby mode, press [REC] again.

2 Start recording
Play the keyboard to start recording.



(Dot flashes with beat)

You can also start recording by pressing [▶/■].

3 Stop recording
Press [REC].

4 Playback
Press [▶/■].

Time Signature
When recording the Phrase used for Repeat Playback (page 11), set the Time Signature during the Recording Standby mode ("rEC" indication.) If you recorded with a wrong Time Signature, unwanted silence may be inserted during the repeats since the Phrase is repeated in measures. The Time Signature can be set from "Metronome" on page 12. (The default setting is 4/4.) You can use the metronome while recording, but the metronome will not be recorded.

NOTE

- *When recording capacity becomes full during recording, a "FUL" message appears on the display and recording is stopped.*
- *You can start a Phrase at a desired speed by simply tapping the [TEMPO/TAP] button four times for time signatures in 4 (such as 4/4) or three times for time signatures in 3 (such as 3/4).*

Sustain

The notes you play have a longer sustain.

Turning Sustain on or off.

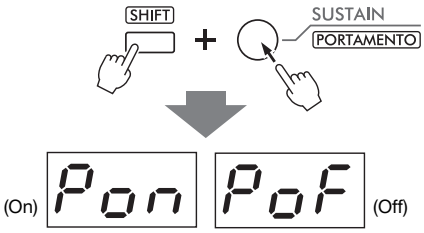
Each press of the [SUSTAIN] button alternately selects on or off.

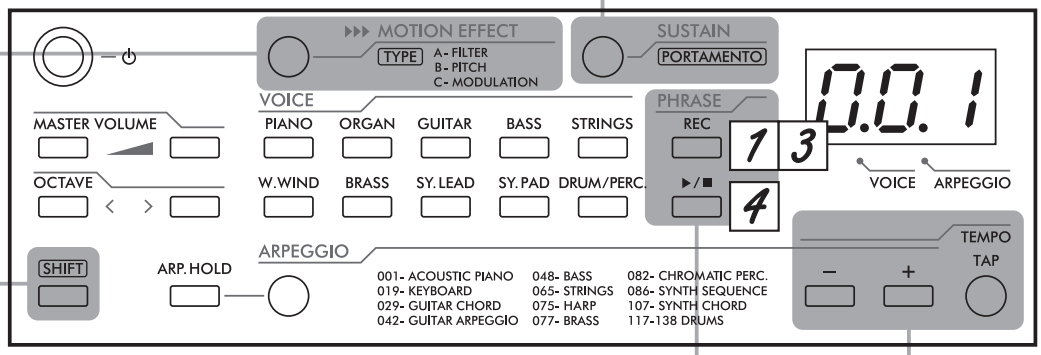
Portamento

Create a smooth transition in pitch from one note played on the keyboard to the next one.

Turning Portamento on or off.

While holding down the [SHIFT] button, each press of the [SUSTAIN] button alternately selects on or off.





Deleting a Phrase

Press the buttons below in order:
[REC] → [▶/■] → [▶/■]

Repeat Playback

Play back the recorded phrase repeatedly.

While holding down [SHIFT], press [▶/■].

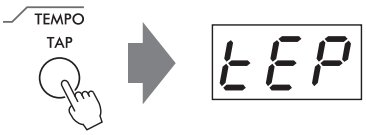
NOTE

- *You can record the Arpeggio and your performance for a few measures and then play it back repeatedly, adding your performance along with the playback as desired.*
- *From the 2nd repeat playback, the Voice may differ from the recording Voice. This is because the last selected Voice during the recording will be used for from the 2nd playback.*

Tempo

You can set the tempo for Phrase, Arpeggio playback and Motion Effect, Metronome speed.

Press the [TEMPO/TAP] button.

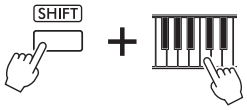


Use the [+]/[-] buttons while "tEP" or the current tempo value is shown.

NOTE

- *Holding down the [-] or [+] button continuously decreases or increases the value.*
- *To reset the tempo, press the [-] and [+] buttons simultaneously.*
- *While a Phrase or Metronome is playing back, press the [TEMPO/TAP] button just twice at the desired tempo to change the tempo.*

Keyboard Settings



These detailed settings provide extra convenience and enhanced operation. To change them, hold down the [SHIFT] button, and then simultaneously press the appropriate key on the keyboard (repeatedly if necessary) as indicated. Use the [+] and [-] keys to change the value, or the Default key to call up the default value (indicated with underline).

* Display indications are shown in parentheses.

Transpose/Tuning

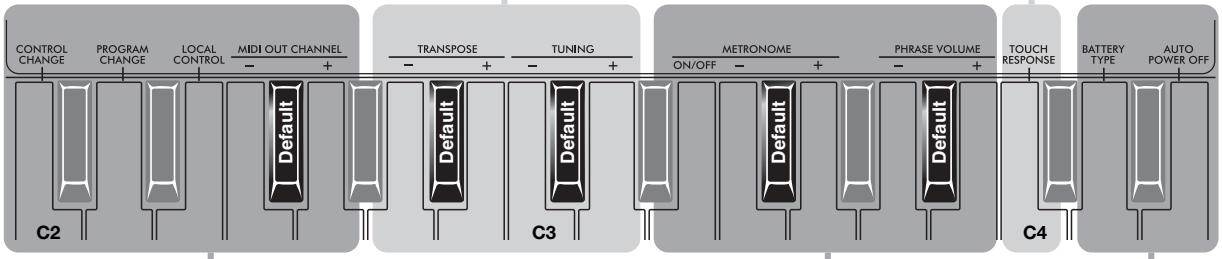
TRANSPOSE
Changes the pitch of the instrument in semitones, for playing in different keys.
Range: -12 – 00 – 12

TUNING
Finely changes the pitch of the entire instrument in roughly 0.2 Hz steps, for tuning to other instruments.
Settings: 427.0 – 440.0 – 453.0 Hz (27.0 – 40.0 – 53.0)

Touch Response

Determines how the sound responds to your playing strength.
Range: 1 / 2 / 3 / oFF

1: Produces relatively high volume even with light playing
2: Produces a fairly “standard” keyboard response.
3: The keys must be played very strongly to generate loud volume.
oFF: All notes are produced at the same volume no matter how hard the keyboard is played.



MIDI Settings

CONTROL CHANGE
Settings: on / oFF (Con / CoF)

PROGRAM CHANGE
Settings: on / oFF (Pon / PoF)

LOCAL CONTROL
Settings: on / oFF (Lon / LoF)

MIDI OUT CHANNEL
Settings: 01–16, oFF

Set as desired when transmitting/receiving MIDI data to/from a computer. For details, refer to the MIDI Reference described on page 6.

Metronome/Phrase Volume

METRONOME ON/OFF
Sets the Metronome on or off. Change the speed with the Tempo control (page 11).
Settings: on / oFF

METRONOME -+ (Beat)
Sets the number of beats (clicks) in a measure for Metronome and Phrase (page 10). Set this to 4 for a 4/4 time signature; or 3 for 3/4.
Settings: 00 – 04 – 16

PHRASE VOLUME
Adjusts the volume of the Phrase/Metronome sound.
Settings: 00 – 12 – 15

Utility

BATTERY TYPE
Changes the type of battery to be used. Be sure to change this to match the batteries you’ve installed.
Settings: Alkaline/Manganese (AL) or Rechargeable (nI)

AUTO POWER OFF
Changes the amount of time that elapses before the power is automatically turned off. The Off setting disables this feature.
Settings: oFF / 005 / 010 / 015 / 030 / 060 / 120 min

Creating Music with MIDI

By connecting this instrument to a computer via the included USB cable, you can record performances on this instrument as a MIDI Song to music production software on computer, or use this instrument as a master keyboard to enter data on music production software. These features greatly expand your music creation and performance possibilities. For details on MIDI, refer to the online PDF manual “MIDI basics” on the Yamaha website.

Supported OS

- Windows 7, 8.1, 10
- Mac OSX 10.12, 10.13, 10.14

NOTICE

- ***Be sure to read “Precautions when Using the [5V DC/USB TO HOST] Terminal” in the MIDI Reference (page 6) before using the [5V DC/USB TO HOST] terminal.***

1 Turn off Local Control (page 12; MIDI settings) as needed.

NOTICE

- ***When turning Local Control to off, sound will not be produced from the keyboard.***

2 Connect this instrument and the computer with the included USB cable. For connection, see page 6.

NOTE

- *If your computer is having difficulty communicating with the instrument, download the standard Yamaha USB-MIDI driver from the following web page and install it on your computer.*
  http://download.yamaha.com/

3 Start recording to the music production software and play this instrument.

NOTE

- *For details on the MIDI transmit channel of the performance data, refer to the MIDI Reference document (page 6).*
- *Playing a recorded Phrase will transmit the corresponding MIDI data.*
- *If the velocity parameter doesn’t reach a value of 127 as needed, set Touch Response to “1.”*

- Windows is a registered trademark of Microsoft® Corporation in the United States and other countries.
- Mac is trademark of Apple Inc., registered in the U.S. and other countries.

Troubleshooting

Problem	Solution
No sound, too soft sound or choppy sound	See the text in the shaded box on pages 7 and 9.

Specifications

Product name	Digital keyboard
Keyboard	37 HQ (High Quality) Mini Keys
Touch Response	Soft, Medium, Hard, Fixed
Voices	Preset: 40 Voices + 2 Drum Kits Polyphony (Max.): 32 notes
Octave Button	Yes (-04 – +04)
Arpeggio	138 types
Effects	Motion Effect, Portamento, Sustain
Function	Metronome: Yes, Tempo: 11 – 280, Transpose: -12 – +12, Tuning: 427.0 – 440.0 – 453.0 Hz (approx. 0.2 Hz increments)
Recording (MIDI data only; audio not supported.)	• Number of Phrases: 1 (approx. 700 notes; fewer when recording using effects such as Motion Effect)
Display	LED display
Connectivity	Headphones/Output (stereo mini), 5V DC/USB TO HOST (USB micro B)
Amplifiers	1.4 W
Speakers	8 cm x 1
Power Supply	• USB bus power 5V/500mA • USB power adaptor 5V/500mA • Four “AA” size alkaline (LR6), manganese (R6) or Ni-MH rechargeable (HR6) batteries
Power Consumption	1.5 W
Auto Power Off	Yes
Dimensions (W x D x H)	506 mm x 201 mm x 54 mm (19-15/16” x 7-15/16” x 2-1/8”)
Weight	1.2 kg (2 lb, 10 oz) (not including batteries)
Included Accessories	Owner’s Manual, USB cable, Online Member Product Registration
Separately Sold Accessories (May not be available depending on your area.)	Headphones (HPH-50/HPH-100/HPH-150)

* The contents of this manual apply to the latest specifications as of the publishing date. 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.

Backup Parameters

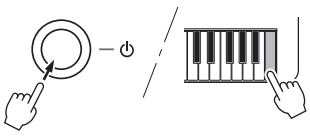
The following settings are maintained even when the power is turned off.

Phrase, Master Volume Level, Tuning, Touch Response, Battery Type, Auto Power Off setting, MIDI Settings (other than Local Control)

When disconnecting the USB power adaptor, or low (or no) battery power, backup is not executed.

Initialization

This operation initializes the backup data. While holding down the highest white key on the keyboard, simultaneously press the [⏻] (Standby/On) switch to turn the power on so that “CLr” will be displayed.



Voice List / Voice-Liste / Liste des sonorités / Lista de voces / Список тембров / 音色一览表 / 음색 목록

Voice No.	MSB (0-127)	LSB (0-127)	MIDI Program Change No. (1-128)	Voice Name
PIANO				
1	0	0	1	Grand Piano
2	0	0	5	Electric Piano 1
3	0	0	6	Electric Piano 2
4	0	0	3	Electric Grand Piano
ORGAN				
5	0	0	17	Drawbar Organ
6	0	0	19	Rock Organ
7	0	0	22	Accordion
8	0	0	23	Harmonica
GUITAR				
9	0	0	25	Nylon Guitar
10	0	0	26	Steel Guitar
11	0	0	27	Jazz Guitar
12	0	0	28	Clean Guitar
13	0	0	30	Overdriven Guitar
BASS				
14	0	0	33	Acoustic Bass
15	0	0	34	Finger Bass
16	0	0	37	Slap Bass
17	0	0	39	Synth Bass
STRINGS				
18	0	0	49	Strings
19	0	0	46	Pizzicato Strings
20	0	0	41	Violin
21	0	0	43	Cello
22	0	0	47	Orchestral Harp
WOODWIND				
23	0	0	69	Oboe
24	0	0	72	Clarinet
25	0	0	74	Flute
26	0	0	67	Tenor Sax
BRASS				
27	0	0	62	Brass Section
28	0	0	57	Trumpet
29	0	0	58	Trombone
30	0	0	61	French Horn
31	0	0	63	Synth Brass
SYNTH LEAD				
32	0	0	83	Gemini
33	0	0	85	Punchy Chordz
34	0	0	81	Square Lead
35	0	0	82	Sawtooth Lead
SYNTH PAD				
36	0	0	89	New Age Pad
37	0	0	90	Warm Pad
38	0	0	101	Brightness
DRUM KIT/PERCUSSION				
39	127	0	1	Standard Kit
40	127	0	28	Dance Kit
41	0	0	12	Vibraphone
42	0	0	13	Marimba

Maximum Polyphony

The instrument has 32-note maximum polyphony. This means that it can play a maximum of up to 32 notes at once, regardless of what functions are used. Arpeggio and Phrase playback use a number of the available notes, so when Arpeggio and Phrase playback are used the total number of available notes for playing on the keyboard is correspondingly reduced. If the maximum polyphony is exceeded, earlier played notes will be cut off and the most recent notes have priority (last note priority).

NOTE

- *The Voice List includes MIDI program change numbers for each voice. Use these program change numbers when playing the instrument via MIDI from an external device.*
- *Program change numbers are often specified as numbers “0–127. ” For these cases, it is necessary to subtract 1 from the intended program change number to select the appropriate sound, because this list uses a “1–128” numbering system. For example, to select program change number 39 in the list, transmit program change number 38.*

Maximale Polyphonie

Das Instrument verfügt über eine maximale Polyphonie von 32 Noten. Dies bedeutet, dass das Instrument unabhängig von den aktivierten Funktionen maximal 32 Noten gleichzeitig spielen kann. Eine bestimmte Anzahl der verfügbaren Noten wird von den Funktionen Arpeggio und Phrasenwiedergabe belegt; bei deren Einsatz verringert sich somit die Anzahl der für das Spiel auf der Tastatur verfügbaren Noten entsprechend. Wenn die maximale Polyphonie überschritten wird, werden die am frühesten gespielten Noten ausgeschaltet und die zuletzt gespielten Noten haben Vorrang (Last Note Priority).

HINWEIS

- *In der Voice-Liste sind die MIDI-Programmwechselnummern für jede Voice aufgeführt. Verwenden Sie diese Programmwechselnummern, wenn Sie das Instrument über MIDI von einem externen Gerät aus spielen/ansteuern.*
- *Die Programmwechselnummern werden häufig als „0–127“ angegeben. Da diese Liste das Nummerierungssystem „1–128“ verwendet, muss in diesen Fällen von den gesendeten Programmwechselnummern die Zahl 1 abgezogen werden, um den gewünschten Sound zu erhalten. Wenn Sie z. B. aus der nachstehenden Liste das Programm Nr. 39 auswählen möchten, senden Sie die Programmwechselnummer 38.*

Polyphonie maximale

L'instrument dispose d'une polyphonie maximale de 32 notes. Cela signifie que l'instrument peut reproduire un nombre maximal de 32 voix à la fois, indépendamment des fonctions utilisées. L'arpège et le mode de lecture Phrase font appel à un certain nombre de notes disponibles. Il s'ensuit que lorsque l'arpège et le mode de lecture Phrase sont utilisés, le nombre total de notes disponibles pour l'interprétation au clavier est réduit en conséquence. Lorsque la polyphonie maximale est dépassée, les notes jouées en premier ne produisent aucun son et seules les notes interprétées en dernier sont audibles (priorité à la dernière note).

NOTE

- *La liste des voix comporte des numéros de modification de programmes MIDI pour chaque voix. Utilisez ces derniers lorsque vous jouez de l'instrument via MIDI à partir d'un périphérique externe.*
- *Les numéros de changement de programme sont souvent spécifiés comme étant de « 0 à 127 ». « Dans ces cas-là, il est nécessaire de soustraire 1 du numéro de changement de programme prévu afin de sélectionner le son approprié, car cette liste utilise un système de numérotation allant de « 1 à 128 ». Par exemple, pour sélectionner le changement de programme n° 39 dans la liste, il faut transmettre le changement de programme n° 38.*

Polifonía máxima

El instrumento tiene una polifonía máxima de 32 notas. Esto significa que puede tocar un máximo de 32 notas a la vez, independientemente de las funciones que se usen. En la reproducción de arpegios y frases se utiliza una parte de las notas disponibles, así que cuando se utilizan arpegios y frases, el número de notas disponibles se reduce en consecuencia. Si se excede la polifonía máxima, las notas tocadas con anterioridad se cortan y se da prioridad a las notas más recientes (prioridad de la última nota).

NOTA

- *La lista de voces incluye números de cambio de programa MIDI para cada sonido. Utilice estos números de cambio de programa cuando toque el instrumento a través del MIDI desde un dispositivo externo.*
- *Los números de cambio de programa se especifican a menudo como "0 a 127". En estos casos, se debe restar 1 del número de cambio de programa deseado para seleccionar el sonido adecuado, porque esta lista utiliza un sistema de numeración de "1 a 128". Por ejemplo, para seleccionar el número de cambio de programa 39 en la lista, transmita el número de cambio de programa 38.*

Максимальная полифония

Максимальная полифония данного инструмента — 32 ноты. Это значит, что независимо от используемых функций инструмент может одновременно проигрывать не более 32 нот. Часть нот используется для воспроизведения фраз и арпеджио; таким образом, при включенном воспроизведении фраз и арпеджио общее количество нот, доступных для игры на клавиатуре, сокращается. В случае превышения максимальной полифонии ранее сыгранные ноты отсекаются, а ноты, сыгранные последними, обладают более высоким приоритетом (приоритет последней ноты).

ПРИМЕЧАНИЕ

- *В список тембров включены номера изменения MIDI-программ для каждого тембра. Эти номера используются при воспроизведении на инструменте с внешнего устройства через интерфейс MIDI.*
- *Номера изменения программ часто представляются в виде чисел «0–127». В подобных случаях необходимо вычитать 1 из желаемого номера изменения программы для выбора необходимого звука, поскольку в этом списке используется система нумерации «1–128». Например, для выбора номера изменения программы 39 в списке передайте номер изменения программы 38.*

最大同时发音数

本乐器的最大同时发音数是32个音符。这表示不管使用哪些功能，最多可同时奏出32个音符。琶音和乐句播放会用到许多可用音符，因此在使用琶音和乐句播放时，能在键盘上演奏的可用音符总数会相应地减少。如果超过最大同时发音数，先前演奏的音符会被删除掉，最近演奏的音符具有较高优先级 （音符越靠后，优先级越高）。

注

- *音色一览表包括每种音色的MIDI程序变更编号。从外接设备通过MIDI使用本乐器进行演奏时，会使用这些程序变更编号。*
- *程序变更编号通常指定为编号"0-127"。*
  127. 因为此一览表使用的是"1-128"编号系统，因此需要从所用程序变更编号减去1以选择正确的音色。例如，若要在列表中选择编号39，则传送程序变更编号38。

최대동시발음수

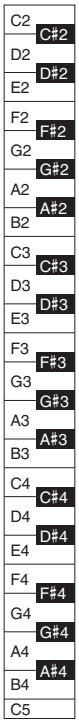
악기는 최대 32개의 최대 동시발음수를 지원합니다. 이는 어떤 기능을 사용하든 상관없이 한 번에 최대 32개의 음을 연주할 수 있다는 것을 의미합니다. 아르페지오 및 프레이즈 재생은 이용할 수 있는 개수의 음을 사용하기 때문에, 아르페지오 및 프레이즈 재생이 사용되면 건반 연주에 이용할 수 있는 음의 합계가 이에 맞춰 줄어듭니다. 최대 동시발음수가 초과되면 이전에 연주된 음이 삭제되고 가장 최근의 음이 우선 순위를 갖게 됩니다(마지막 음 우선).

주

- *음색 목록에는 각 음색에 대한 MIDI 프로그램 변경 번호가 포함됩니다. 외부 장치로부터 MIDI를 통해 악기를 연주할 때 이 프로그램 변경 번호를 사용하십시오.*
- *프로그램 변경 번호는 "0-127" 로 지정됩니다. 목록에서는 "1-128" 숫자 부여 시스템을 사용하기 때문에, 적합한 음향을 선택하기 위해서는 의도한 프로그램 변경 번호에서 1을 빼야 합니다. 예를 들어, 아래 목록에서 프로그램 변경 번호 39를 선택하려면 프로그램 변경 번호 38을 전송하십시오.*

Drum Kit List / Drum Kit-Liste / Liste des kits de batterie / Lista de juegos de batería / Список наборов ударных / 鼓组一览表 / 드럼 키트 목록

Voice No.						39	40
MSB (0–127) / LSB (0–127) / PC (1–128)						127/000/001	127/000/28
Keyboard			MIDI			Standard Kit	Dance Kit
Note#	Note		Note#	Note			
25	C#	0	13	C#	-1	Surdo Mute	Surdo Mute
26	D	0	14	D	-1	Surdo Open	Surdo Open
27	D#	0	15	D#	-1	Hi Q	Hi Q
28	E	0	16	E	-1	Whip Slap	Whip Slap
29	F	0	17	F	-1	Scratch H	Scratch H
30	F#	0	18	F#	-1	Scratch L	Scratch L
31	G	0	19	G	-1	Finger Snap	Finger Snap
32	G#	0	20	G#	-1	Click Noise	Click Noise
33	A	0	21	A	-1	Metronome Click	Metronome Click
34	A#	0	22	A#	-1	Metronome Bell	Metronome Bell
35	B	0	23	B	-1	Seq Click L	Seq Click L
36	C	1	24	C	0	Seq Click H	Seq Click H
37	C#	1	25	C#	0	Brush Tap	Brush Tap
38	D	1	26	D	0	Brush Swirl	Brush Swirl
39	D#	1	27	D#	0	Brush Slap	Brush Slap
40	E	1	28	E	0	Brush Tap Swirl	Reverse Cymbal
41	F	1	29	F	0	Snare Roll	Snare Roll
42	F#	1	30	F#	0	Castanet	Hi Q 2
43	G	1	31	G	0	Snare Soft	Snare Techno
44	G#	1	32	G#	0	Sticks	Sticks
45	A	1	33	A	0	Bass Drum Soft	Kick Techno Q
46	A#	1	34	A#	0	Open Rim Shot	Rim Gate
47	B	1	35	B	0	Bass Drum Hard	Kick Techno L
48	C	2	36	C	1	Bass Drum	Kick Techno
49	C#	2	37	C#	1	Side Stick	Side Stick Analog
50	D	2	38	D	1	Snare	Snare Clap
51	D#	2	39	D#	1	Hand Clap	Hand Clap
52	E	2	40	E	1	Snare Tight	Snare Dry
53	F	2	41	F	1	Floor Tom L	Tom Analog 1
54	F#	2	42	F#	1	Hi-Hat Closed	Hi-Hat Close Analog 1
55	G	2	43	G	1	Floor Tom H	Tom Analog 2
56	G#	2	44	G#	1	Hi-Hat Pedal	Hi-Hat Close Analog 2
57	A	2	45	A	1	Low Tom	Tom Analog 3
58	A#	2	46	A#	1	Hi-Hat Open	Hi-Hat Open Analog
59	B	2	47	B	1	Mid Tom L	Tom Analog 4
60	C	3	48	C	2	Mid Tom H	Tom Analog 5
61	C#	3	49	C#	2	Crash Cymbal 1	Cymbal Analog
62	D	3	50	D	2	High Tom	Tom Analog 6
63	D#	3	51	D#	2	Ride Cymbal 1	Ride Cymbal 1
64	E	3	52	E	2	Chinese Cymbal	Chinese Cymbal
65	F	3	53	F	2	Ride Cymbal Cup	Ride Cymbal Cup
66	F#	3	54	F#	2	Tambourine	Tambourine
67	G	3	55	G	2	Splash Cymbal	Splash Cymbal
68	G#	3	56	G#	2	Cowbell	Cowbell Analog
69	A	3	57	A	2	Crash Cymbal 2	Crash Cymbal 2
70	A#	3	58	A#	2	Vibraslap	Vibraslap
71	B	3	59	B	2	Ride Cymbal 2	Ride Cymbal 2
72	C	4	60	C	3	Bongo H	Bongo H
73	C#	4	61	C#	3	Bongo L	Bongo L
74	D	4	62	D	3	Conga H Mute	Conga Analog H
75	D#	4	63	D#	3	Conga H Open	Conga Analog M
76	E	4	64	E	3	Conga L	Conga Analog L
77	F	4	65	F	3	Timbale H	Timbale H
78	F#	4	66	F#	3	Timbale L	Timbale L
79	G	4	67	G	3	Agogo H	Agogo H
80	G#	4	68	G#	3	Agogo L	Agogo L
81	A	4	69	A	3	Cabasa	Cabasa
82	A#	4	70	A#	3	Maracas	Maracas 2
83	B	4	71	B	3	Samba Whistle H	Samba Whistle H
84	C	5	72	C	4	Samba Whistle L	Samba Whistle L
85	C#	5	73	C#	4	Guiro Short	Guiro Short
86	D	5	74	D	4	Guiro Long	Guiro Long
87	D#	5	75	D#	4	Claves	Claves 2
88	E	5	76	E	4	Wood Block H	Wood Block H
89	F	5	77	F	4	Wood Block L	Wood Block L
90	F#	5	78	F#	4	Cuica Mute	Scratch H
91	G	5	79	G	4	Cuica Open	Scratch L
92	G#	5	80	G#	4	Triangle Mute	Triangle Mute
93	A	5	81	A	4	Triangle Open	Triangle Open
94	A#	5	82	A#	4	Shaker	Shaker
95	B	5	83	B	4	Jingle Bells	Jingle Bells
96	C	6	84	C	5	Bell Tree	Bell Tree



- Each percussion Voice uses one note.
- The MIDI Note No. and Note are actually one octave lower than keyboard Note No. and Note. For example, in “Standard Kit,” the “Snare Tight” (Note No.52/Note E2) corresponds to MIDI (Note No.40/Note E1).

- Jede Percussion-Voice belegt eine Note.
- Die MIDI-Notennummer und die MIDI-Note sind in Wirklichkeit eine Oktave tiefer als auf der Tastatur. Z. B. entspricht im „Standard Kit“ die „Snare Tight“ (Note Nr. 52/Note E2) der MIDI-Notennummer 40 bzw. der Note E1.

- Chaque voix de percussion utilise une note unique.
- Les paramètres MIDI Note No. et Note se situent en réalité à une octave inférieure à leurs équivalents Note No. et Note sur le clavier. Par exemple, dans « Standard Kit », « Snare Tight » (Note No.52/Note E2) correspond à MIDI (Note No.40/Note E1).

- Cada voz de percusión utiliza una nota.
- El número de nota y la nota MIDI son en realidad una octava menos que el número de nota y la nota en el teclado. Por ejemplo, en “Standard Kit”, “Snare Tight” (nota n.º 52/nota E2) corresponde a MIDI (nota n.º 40/nota E1).

- В каждом тембре перкуссии используется одна нота.
- Номер MIDI-ноты и нота в действительности на одну октаву ниже номера ноты и ноты, указанных на клавиатуре. Например, в Standard Kit (стандартный набор) Snare Tight (номер ноты 52 / нота E2) соответствует MIDI (номер ноты 40 / нота E1).

- 每种打击音色使用一个音符。
- MIDI音符编号和音符比键盘音符编号和音符实际低一个八度。例如，在音色“Standard Kit”中，“Snare Tight”（音符编号52/音符E2）对应于MIDI （音符编号40/音符E1）。

- 각각의 퍼커션 음색에는 하나의 음이 사용됩니다.
- MIDI 음 번호 및 음은 건반 음 번호 및 음보다 실제로 한 옥타브 낮습니다. 예를 들어, “Standard Kit” 에서는 “Snare Tight”(음 번호 52/음 E2)가 MIDI(음 번호 40/음 E1)에 해당합니다.

Arpeggio List / Liste der Arpeggios / Liste des arpèges / Lista de arpegios / Список арпеджио / 琶音一览表 / 아르페지오 목록

No.	Type Name
ACOUSTIC PIANO	
1	PfArp1
2	PfArp2
3	PfArp3
4	PfArp4
5	PfClub1
6	PfClub2
7	PfBallad
8	PfChd8th
9	PfShufle
10	PfRock
11	RocknPf
12	70RockPf
13	SlowflPf
14	SoulPf
15	LatinRck
16	Salsa1
17	Salsa2
18	6/8R&B
KEYBOARD	
19	EPArp
20	BalladEP
21	ChordUp
22	ChdDance
23	Clavi1
24	Clavi2
25	Gospel
26	Reggae1
27	Reggae2
28	Reggae3
GUITAR CHORD	
29	Strum1
30	Strum2
31	Strum3
32	Strum4
33	Funky
34	GtrChrd1
35	GtrChrd2
36	GtrChrd3
37	CleanGtr
38	Samba1
39	Samba2
40	Spanish1
41	Spanish2
GUITAR ARPEGGIO	
42	Pickin1
43	Pickin2
44	GtrArp
45	FngrPck1
46	FngrPck2
47	Slowfl

No.	Type Name
BASS	
48	FngrBas1
49	FngrBas2
50	FngrBas3
51	CoolFunk
52	SlapBass
53	AcidBas1
54	AcidBas2
55	FunkyBas
56	CmbJazB1
57	CmbJazB2
58	CmbJazB3
59	NewR&BBs
60	HipHopBs
61	SmoothBs
62	DreamBas
63	TranceBs
64	LatinBas
STRINGS	
65	Strings1
66	Strings2
67	Strings3
68	Strings4
69	StrngDwn
70	StrngUp
71	OrcheStr
72	Jupiter
73	Pizz1
74	Pizz2
HARP	
75	Harp1
76	Harp2
BRASS	
77	BrasSec1
78	BrasSec2
79	BrasSec3
80	FunkBras
81	SoulReed
CHROMATIC PERC.	
82	PercArp
83	Trill
84	Cresendo
85	DiscoCP
SYNTH SEQUENCE	
86	UpOct
87	DownOct
88	UpDwnOct
89	SynArp1
90	SynArp2
91	SynArp3
92	SynArp4

No.	Type Name
93	SyncEcho
94	PulsLine
95	StepLine
96	Random
97	Down&Up
98	SuperArp
99	AcidLine
100	TekEcho
101	VelGruv
102	Planet
103	Trance1
104	Trance2
105	Trance3
106	DiscoLd
SYNTH CHORD	
107	ChordAlt
108	SynChrd1
109	SynChrd2
110	Syncopa
111	Hybrid1
112	Hybrid2
113	Hybrid3
114	Hybrid4
115	Hybrid5
116	SmoothPd
DRUMS	
117	Funk1
118	Funk2
119	Funk3
120	Soul
121	ClscHip
122	Smooth
123	NewGospl
124	CmbJazz1
125	Bebop
126	JazzHop
127	FolkRock
128	Unpluggd
129	Dream
130	2 Step
131	ClubHs1
132	ClubHs2
133	House
134	Ibiza2
135	Ibiza3
136	Garage
137	Samba
138	African

NOTE

- *For Nos. 117 – 138, play with a Drum Kit Voice (No. 39 Standard Kit or No. 40 Dance Kit).*

HINWEIS

- *Bei Nrn. 117–138 spielen Sie eine Drum-Kit-Voice (Nr. 39 Standard Kit oder Nr. 40 Dance Kit).*

NOTE

- *Pour les n° 117 à 138, jouez une voix de kit de percussion (Standard Kit n°39 ou Dance Kit n°40).*

NOTA

- *Para los números 117 – 138, toque con una voz de conjunto de batería (n.° 39 Standard Kit o n.° 40 Dance Kit).*

ПРИМЕЧАНИЕ

- *Для номеров 117–138 следует играть с тембром набора ударных (номер 39 в Standard Kit (стандартный набор) номер 40 в Dance Kit (танцевальная установка)).*

注

- *对于编号117 – 138，与鼓组音色一起演奏（Standard Kit编号39或Dance Kit编号40）。*

주

- *음 번호 117 - 138의 경우, 드럼 키트 음색(음 번호 39 Standard Kit 또는 음 번호 40 Dance Kit)과 함께 재생하십시오.*

Motion Effect List / Motion-Effect-Liste / Liste des effets de mouvement / Lista de efectos de movimiento / Список эффектов движения / 动态效果一览表 / 모션 이펙트 목록

No.	Type Name
A	**FILTER**
A01	Filter 1
A02	FIlter 2
A03	Filter Wah
A04	Filter 3
A05	Filter 4
A06	Filter 5
A07	Filter 6
A08	Filter 7
A09	Filter + Modulation 1
A10	Filter + Modulation 2
B	**PITCH**
B01	Pitch Whole-Note Up
B02	Pitch Half-Note Up
B03	Pitch Whole-Note Down
B04	Pitch Half-Note Down
B05	Choking Up
B06	Choking Down
B07	Pitch Down 1
B08	Pitch Down 2
B09	Pitch Up 1
B10	Pitch Up 2
B11	Pitch Up + Modulation
B12	Pitch Up 3
C	**MODULATION**
C01	Modulation On 1
C02	Modulation On 2
C03	Pitch Up + Modulation On 1
C04	Pitch Up + Modulation On 2
C05	Expression Slice 1
C06	Expression Slice 2
C07	Expression Slice + Filter 1
C08	Expression Slice + Filter 2
C09	Pitch Up + Expression Slice 1
C10	Pitch Up + Expression Slice 2
C11	Pitch Up + Expression Slice 3
C12	Pitch Up + Expression Slice 4

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.

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.

Cd

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 EU Battery Directive for the chemical involved.

(weee_battery_eu_en_02)

Verbraucherinformation zur Sammlung und Entsorgung alter Elektrogeräte und benutzter Batterien

Befinden sich diese Symbole auf den Produkten, der Verpackung und/oder beiliegenden Unterlagen, so sollten benutzte elektrische Geräte und Batterien nicht mit dem normalen Haushaltsabfall entsorgt werden.
In Übereinstimmung mit Ihren nationalen Bestimmungen bringen Sie alte Geräte und benutzte Batterien bitte zur fachgerechten Entsorgung, Wiederaufbereitung und Wiederverwendung zu den entsprechenden Sammelstellen.

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

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

Information für geschäftliche Anwender in der Europäischen Union:
Wenn Sie Elektrogeräte ausrangieren möchten, kontaktieren Sie bitte Ihren Händler oder Zulieferer für weitere Informationen.

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

Cd

Anmerkung zum Batteriesymbol (untere zwei Symbolbeispiele):
Dieses Symbol kann auch in Kombination mit einem chemischen Symbol verwendet werden. In diesem Fall entspricht dies den Anforderungen der EU-Batterierichtlinie zur Verwendung chemischer Stoffe.

(weee_battery_eu_de_02)

Informations 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 usagées 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.

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.

Informations sur la mise au rebut 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.

Cd

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 européenne relative aux piles pour le produit chimique en question.

(weee_battery_eu_fr_02)

Información para usuarios sobre la recogida y eliminación de los equipos antiguos y las pilas usadas

Estos símbolos en los productos, embalajes y documentos anexos significan que los productos eléctricos y electrónicos y sus pilas no deben mezclarse con los desperdicios domésticos normales.
Para el tratamiento, recuperación y reciclaje apropiados de los productos antiguos y las pilas usadas, llévelos a puntos de reciclaje correspondientes, de acuerdo con la legislación nacional.

Al deshacerse de estos productos y pilas de forma correcta, ayudará a ahorrar recursos valiosos y a impedir los posibles efectos desfavorables en la salud humana y en el entorno que de otro modo se producirían si se trataran los desperdicios de modo inapropiado.

Para obtener más información acerca de la recogida y el reciclaje de los productos antiguos y las pilas, póngase en contacto con las autoridades locales, con el servicio de eliminación de basuras o con el punto de venta donde adquirió los artículos.

Para los usuarios empresariales de la Unión Europea:
Si desea desechar equipos eléctricos y electrónicos, póngase en contacto con su vendedor o proveedor para obtener más información.

Información sobre la eliminación en otros países fuera de la Unión Europea:
Estos símbolos solamente son válidos en la Unión Europea. Si desea desechar estos artículos, póngase en contacto con las autoridades locales o con el vendedor y pregúnteles el método correcto.

Cd

Nota sobre el símbolo de pila (dos ejemplos de símbolos en la parte inferior):
Este símbolo se puede utilizar en combinación con un símbolo químico. En este caso, cumple el requisito establecido por la Directiva de la UE sobre pilas correspondiente a la sustancia química utilizada.

(weee_battery_eu_es_02)

产品中有害物质的名称及含量

部件名称	有害物质					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (CrVI)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
印刷线路板	X	O	O	O	O	O
扩音装置	X	O	O	O	O	O

本表格依据 SJ/T 11364 的规定编制。
O：表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。
X ：表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求。
（此产品符合EU的RoHS指令。）
（この製品はEUのRoHS指令には適合しています。）
(This product conforms to the RoHS regulations in the EU.)
(Dieses Produkt entspricht der RoHS-Richtlinie der EU.)
(Ce produit est conforme aux réglementations RoHS de l'UE.)
(Este producto cumple con los requisitos de la directiva RoHS en la UE.)

此标识适用于在中华人民共和国销售的电器电子产品。

标识中间的数字为环保使用期限的年数。

保护环境

如果需要废弃设备（及电池）时，请与本地相关机构联系，获取正确的废弃方法。请勿将设备（及电池）随意丢弃或作为生活垃圾处理。

雅马哈乐器音响（中国）投资有限公司

上海市静安区新闸路1818 号云和大厦2 楼
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Important Notice: Guarantee Information for customers in European Economic Area (EEA) and Switzerland

English

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

Deutsch

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-EWR*- und Schweizer Garantieservice, besuchen Sie bitte entweder die folgend angegebene Internetadresse (eine druckfähige Version befindet sich auch auf unserer Webseite), oder wenden Sie sich an den für Ihr Land zuständigen Yamaha-Vertrieb. *EWR: Europäischer Wirtschaftsraum

Français

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

Nederlands

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 vind een afdrukbaar bestand op onze website) of neemt u contact op met de vertegenwoordiging van Yamaha in uw land. * EER: Europese Economische Ruimte

Español

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 version del archivo para imprimir esta disponible en nuestro sitio web) o póngase en contacto con el representante de Yamaha en su país. * EEE: Espacio Económico Europeo

Italiano

Avviso 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 nei paesi 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

Português

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 Econômica Européia

Ελληνικά

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 ιστοσελίδα μας) ή απευθυνθείτε στην αντιπροσωπεία της Yamaha στη χώρα σας. * ΕΟΧ: Ευρωπαϊκός Οικονομικός Χώρος

Svenska

Viktigt: Garantiinformation för kunder i EES-området* och Schweiz

För detaljerad information om denna Yamahaprodukt samt garantiservice i hela EES-området* och Schweiz kan du antingen besöka nedanstående webbaddress (en utskriftsvänlig fil finns på webbplatsen) eller kontakta Yamahas officiella representant i ditt land. * EES: Europeiska Ekonomiska Samarbetsområdet

Norsk

Viktig merknad: Garantiinformasjon for kunder i EØS* og Sveits

Detaljert garantiinformasjon om dette Yamaha-produktet og garantiservice for hele EØS-området* og Sveits kan fås enten ved å besøke nettadressen nedenfor (utskriftsversjon finnes på våre nettsider) eller kontakte kontakte Yamaha-kontoret i landet der du bor. *EØS: Det europeiske økonomiske samarbeidsområdet

Dansk

Vigtig oplysning: Garantioplysninger til kunder i EØO* og Schweiz

De kan finde detaljerede garantioplysninger om dette Yamaha-produkt og den fælles garantiserviceordning for EØO* (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. * EØO: Det Europæiske Økonomiske Område

Suomi

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

Polski

Ważne: Warunki gwarancyjne 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

Česky

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 uvedené webové adrese (soubor k tisku je dostupný na našich webových stránkách) nebo se můžete obrátit na zastoupení firmy Yamaha ve své zemi. * EHS: Evropský hospodářský prostor

Magyar

Fontos figyelmeztetés: 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 keresse fel webhelyünket az alábbi címen (a webhelyen nyomtatható fájlt is talál), vagy pedig lépjen kapcsolatba az országában működő Yamaha képviseleti irodával. * EGT: Európai Gazdasági Térség

Eesti keel

Oluline märkus: Garantiiteave Euroopa Majanduspiirkonna (EMP)* ja Šveitsi klientidele

Täpsema teabe saamiseks selle Yamaha toote garantii ning kogu Euroopa Majanduspiirkonna ja Šveitsi garantiiteeninduse kohta, külastage palun veebisaiti alljärgneval aadressil (meie saidil on saadaval prinditav fail) või pöörduge Teie regiooni Yamaha esinduse poole. * EMP: Euroopa Majanduspiirkond

Latviešu

Svarīgs paziņojums: garantijas informācija klientiem EEZ* un Šveicē

Lai saņemtu detalizētu garantijas informāciju par šo Yamaha produktu, kā arī garantijas apkalpošanu EEZ* un Šveicē, lūdzu, apmeklējiet zemāk norādīto tīmekļa vietnes adresi (tīmekļa vietnē ir pieejams drukājams fails) vai sazinieties ar jūsu valsti apkalpojošo Yamaha pārstāvniecību. * EEZ: Eiropas Ekonomikas zona

Lietuvių kalba

Dėmesio: informacija dėl garantijos pirkėjams EEE* ir Šveicarijoje

Jei reikia išsamios informacijos apie šį „Yamaha" produktą ir jo techninę priežiūrą visoje EEE* ir Šveicarijoje, apsilankykite mūsų svetainėje toliau nurodytu adresu (svetainėje yra spausdintinas failas) arba kreipkitės į „Yamaha" atstovybę savo šalyje. *EEE – Europos ekonominė erdvė

Slovenčina

Dôležité upozornenie: Informácie o záruke pre zákazníkov v EHP* a Švajčiarsku

Podrobné informácie o záruke týkajúce sa tohto produktu od spoločnosti Yamaha a garančnom 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

Slovenščina

Pomembno obvestilo: Informacije o garanciji za kupce v EGP* in Švici

Za podrobnejše informacije o tem Yamahinem 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

Български език

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

Limba română

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

Hrvatski

Važna obavijest: Informacije o jamstvu za države EGP-a i Švicarske

Za detaljne informacije o jamstvu za ovaj Yamahin proizvod te jamstvenom servisu za cijeli EGP i Švicarsku, molimo Vas da posjetite web-stranicu navedenu u nastavku ili kontaktirate ovlaštenog Yamahinog dobavljača u svojoj zemlji. * EGP: Europski gospodarski prostor

https://europe.yamaha.com/warranty/

URL_5

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