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STAGE KEYBOARD CLAVIER DE SCÈNE TECLADO DE ESCENARIO

OWNER'S MANUAL MODE D'EMPLOI MANUAL DE INSTRUCCIONES Español

#### 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: STAGE KEYBOARD

Model Name: CK88, CK61

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.

(529-M02 FCC sdoc YCA 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 cannot locate the appropriate retailer, please contact Yamaha Corporation of America, 6600 Orangethorpe Ave., Buena Park, CA90620, USA.

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

(529-M04 FCC class B YCA 01)

# For AC adaptor



## **Explanation of Graphical Symbols**



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

# **IMPORTANT SAFETY INSTRUCTIONS**

- 1 Read these instructions.
- 2 Keep these instructions.
- 3 Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this apparatus near water.
- 6 Clean only with dry cloth.
- 7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

- 11 Only use attachments/accessories specified by the manufacturer.
- 12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.



- 13 Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

#### WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

(502-M01 UL 60065-1 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.

(1003-M06 plate bottom en 01)

Informat	Information for users on collection and disposal of old equipment and used batteries:		
X	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.		
X	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	<b>Note for the battery symbol (bottom symbol example):</b> 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.		
L			

(58-M03 WEEE battery en 01)

#### For Singapore

Users are only allowed to use EN 50075 detachable and interchangeable 2-pin plugs or BS 1363-3 or SS 145-3 detachable and interchangeable 3-pin plugs that are approved and suitable to use in Singapore.

(604-M02 SG adaptor 01)

#### This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

(554-M01)

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. This equipment should be installed and operated keeping the radiator at least 20 cm or more away from person's body.

(554-M03 FCC mobile SAR 01)

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment and meets RSS-102 of the ISED radio frequency (RF) Exposure rules. This equipment should be installed and operated keeping the radiator at least 20 cm or more away from person's body.

(555-M04 ISED mobile SAR en 01)

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.

2. This device must accept any interference, including interference that may cause undesired operation of the device.

(555-M13 ISED RSS en 01)

#### EN SIMPLIFIED EU DECLARATION OF CONFORMITY / SIMPLIFIED UK DECLARATION OF CONFORMITY

Hereby, Yamaha Music Europe GmbH declares that the radio equipment type [CK88, CK61] is in compliance with Directive 2014/53/ EU and the radio equipment regulations of UK. The full texts of the EU declaration of conformity and the UK declaration of conformity are available at the following internet address:

https://europe.yamaha.com/en/support/compliance/doc.html

#### FR DECLARATION UE DE CONFORMITE SIMPLIFIEE

Le soussigné, Yamaha Music Europe GmbH, déclare que l'équipement radioélectrique du type [CK88, CK61] est conforme à la directive 2014/53/UE. Le texte complet de la déclaration UE de conformité est disponible à l'adresse internet suivante : https://europe.yamaha.com/en/support/compliance/doc.html

#### DE VEREINFACHTE EU-KONFORMITÄTSERKLÄRUNG

Hiermit erklärt Yamaha Music Europe GmbH, dass der Funkanlagentyp [CK88, CK61] der Richtlinie 2014/53/EU entspricht. Der vollständige Text der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügbar: https://europe.yamaha.com/en/support/compliance/doc.html

#### SV FÖRENKLAD EU-FÖRSÄKRAN OM ÖVERENSSTÄMMELSE

Härmed försäkrar Yamaha Music Europe GmbH att denna typ av radioutrustning [CK88, CK61] överensstämmer med direktiv 2014/ 53/EU. Den fullständiga texten till EU-försäkran om överensstämmelse finns på följande webbadress: https://europe.yamaha.com/en/support/compliance/doc.html

#### IT DICHIARAZIONE DI CONFORMITÀ UE SEMPLIFICATA

Il fabbricante, Yamaha Music Europe GmbH, dichiara che il tipo di apparecchiatura radio [CK88, CK61] è conforme alla direttiva 2014/ 53/UE. Il testo completo della dichiarazione di conformità UE è disponibile al seguente indirizzo Internet: https://europe.yamaha.com/en/support/compliance/doc.html

#### ES DECLARACIÓN UE DE CONFORMIDAD SIMPLIFICADA

Por la presente, Yamaha Music Europe GmbH declara que el tipo de equipo radioeléctrico [CK88, CK61] es conforme con la Directiva 2014/53/UE. El texto completo de la declaración UE de conformidad está disponible en la dirección Internet siguiente: <u>https://europe.yamaha.com/en/support/compliance/doc.html</u>

#### PT DECLARAÇÃO UE DE CONFORMIDADE SIMPLIFICADA

O(a) abaixo assinado(a) Yamaha Music Europe GmbH declara que o presente tipo de equipamento de rádio [CK88, CK61] está em conformidade com a Diretiva 2014/53/UE. O texto integral da declaração de conformidade está disponível no seguinte endereço de Internet:

https://europe.yamaha.com/en/support/compliance/doc.html

#### NL VEREENVOUDIGDE EU-CONFORMITEITSVERKLARING

Hierbij verklaar ik, Yamaha Music Europe GmbH, dat het type radioapparatuur [CK88, CK61] conform is met Richtlijn 2014/53/EU. De volledige tekst van de EU-conformiteitsverklaring kan worden geraadpleegd op het volgende internetadres: https://europe.yamaha.com/en/support/compliance/doc.html

#### **ВС ОПРОСТЕНА ЕС ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ**

С настоящото Yamaha Music Europe GmbH декларира, че този тип радиосъоръжение [CK88, CK61] е в съответствие с Директива 2014/53/EC. Цялостният текст на EC декларацията за съответствие може да се намери на следния интернет адрес:

https://europe.yamaha.com/en/support/compliance/doc.html

#### CS ZJEDNODUŠENÉ EU PROHLÁŠENÍ O SHODĚ

Tímto Yamaha Music Europe GmbH prohlašuje, že typ rádiového zařízení [CK88, CK61] je v souladu se směrnicí 2014/53/EU. Úplné znění EU prohlášení o shodě je k dispozici na této internetové adrese: https://europe.yamaha.com/en/support/compliance/doc.html

#### DA FORENKLET EU-OVERENSSTEMMELSESERKLÆRING

Hermed erklærer Yamaha Music Europe GmbH, at radioudstyrstypen [CK88, CK61] er i overensstemmelse med direktiv 2014/53/EU. EU-overensstemmelseserklæringens fulde tekst kan findes på følgende internetadresse: https://europe.yamaha.com/en/support/compliance/doc.html

#### ET LIHTSUSTATUD ELI VASTAVUSDEKLARATSIOON

Käesolevaga deklareerib Yamaha Music Europe GmbH, et käesolev raadioseadme tüüp [CK88, CK61] vastab direktiivi 2014/53/EL nõuetele. ELi vastavusdeklaratsiooni täielik tekst on kättesaadav järgmisel internetiaadressil: https://europe.yamaha.com/en/support/compliance/doc.html

#### ΕL ΑΠΛΟΥΣΤΕΥΜΕΝΗ ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ ΕΕ

Με την παρούσα ο/η Yamaha Music Europe GmbH, δηλώνει ότι ο ραδιοεξοπλισμός [CK88, CK61] πληροί την οδηγία 2014/53/ΕΕ. Το πλήρες κείμενο της δήλωσης συμμόρφωσης ΕΕ διατίθεται στην ακόλουθη ιστοσελίδα στο διαδίκτυο: https://europe.yamaha.com/en/support/compliance/doc.html

#### HR POJEDNOSTAVLJENA EU IZJAVA O SUKLADNOSTI

Yamaha Music Europe GmbH ovime izjavljuje da je radijska oprema tipa [CK88, CK61] u skladu s Direktivom 2014/53/EU. Cjeloviti tekst EU izjave o sukladnosti dostupan je na sljedećoj internetskoj adresi: https://europe.yamaha.com/en/support/compliance/doc.html

LV VIENKĀRŠOTA ES ATBILSTĪBAS DEKLARĀCIJA

Ar šo Yamaha Music Europe GmbH deklarē, ka radioiekārta [CK88, CK61] atbilst Direktīvai 2014/53/ES. Pilns ES atbilstības deklarācijas teksts ir pieejams šādā interneta vietnē:

https://europe.yamaha.com/en/support/compliance/doc.html

#### LT SUPAPRASTINTA ES ATITIKTIES DEKLARACIJA

Aš, Yamaha Music Europe GmbH, patvirtinu, kad radijo įrenginių tipas [CK88, CK61] atitinka Direktyvą 2014/53/ES. Visas ES atitikties deklaracijos tekstas prieinamas šiuo interneto adresu:

https://europe.yamaha.com/en/support/compliance/doc.html

#### HU EGYSZERŰSÍTETT EU-MEGFELELŐSÉGI NYILATKOZAT

Yamaha Music Europe GmbH igazolja, hogy a [CK88, CK61] típusú rádióberendezés megfelel a 2014/53/EU irányelvnek. Az EUmegfelelőségi nyilatkozat teljes szövege elérhető a következő internetes címen: https://europe.yamaha.com/en/support/compliance/doc.html

#### PL UPROSZCZONA DEKLARACJA ZGODNOŚCI UE

Yamaha Music Europe GmbH niniejszym oświadcza, że typ urządzenia radiowego [CK88, CK61] jest zgodny z dyrektywą 2014/53/ UE. Pełny tekst deklaracji zgodności UE jest dostępny pod następującym adresem internetowym: https://europe.yamaha.com/en/support/compliance/doc.html

#### DECLARAȚIA UE DE CONFORMITATE SIMPLIFICATĂ

Prin prezenta, Yamaha Music Europe GmbH declară că tipul de echipamente radio [CK88, CK61] este în conformitate cu Directiva 2014/53/UE. Textul integral al declarației UE de conformitate este disponibil la următoarea adresă internet: https://europe.yamaha.com/en/support/compliance/doc.html

#### SK ZJEDNODUŠENÉ EÚ VYHLÁSENIE O ZHODE

Yamaha Music Europe GmbH týmto vyhlasuje, že rádiové zariadenie typu [CK88, CK61] je v súlade so smernicou 2014/53/EÚ. Úplné EÚ vyhlásenie o zhode je k dispozícii na tejto internetovej adrese: https://europe.yamaha.com/en/support/compliance/doc.html

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#### SL POENOSTAVLJENA IZJAVA EU O SKLADNOSTI

Yamaha Music Europe GmbH potrjuje, da je tip radijske opreme [CK88, CK61] skladen z Direktivo 2014/53/EU. Celotno besedilo izjave EU o skladnosti je na voljo na naslednjem spletnem naslovu: https://europe.yamaha.com/en/support/compliance/doc.html

#### FI YKSINKERTAISTETTU EU-VAATIMUSTENMUKAISUUSVAKUUTUS

Yamaha Music Europe GmbH vakuuttaa, että radiolaitetyyppi [CK88, CK61] on direktiivin 2014/53/EU mukainen. EUvaatimustenmukaisuusvakuutuksen täysimittainen teksti on saatavilla seuraavassa internetosoitteessa: https://europe.yamaha.com/en/support/compliance/doc.html

#### TR BASİTLEŞTİRİLMİŞ AVRUPA BİRLİĞİ UYGUNLUK BİLDİRİMİ

İşbu belge ile, Yamaha Music Europe GmbH, radyo cihaz tipinin [CK88, CK61], Direktif 2014/53/ AB'ye uygunluğunu beyan eder. AB uyumu beyanının tam metni aşağıdaki internet adresinden edinilebilir: https://europe.yamaha.com/en/support/compliance/doc.html

(559-M01 RED DoC URL 02)

# PRECAUTIONS

# PLEASE READ CAREFULLY BEFORE PROCEEDING

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

# 

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 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.
- Do not touch the product or the power plug during an electrical storm.
- Use only the correct voltage specified for the product. The required voltage is printed on the name plate of the product.
- Use the specified adaptor (page 69).
- Check the power plug periodically and remove any dirt or dust which may have accumulated on it.
- Insert the power plug firmly all the way into the AC outlet. Using the product when it is not plugged in sufficiently can cause dust to accumulate on the plug, possibly resulting in fire or skin burns.
- 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, as long as the power cord is not unplugged from the wall AC outlet, the product will not be disconnected from the power source.
- Do not connect the product to an electrical outlet using a multi-plug outlet extender. Doing so can result in lower sound quality, or possibly cause overheating in the outlet.
- When disconnecting the power plug, always hold the plug itself and not the cord. Pulling by the cord can damage it and cause electric shocks or a fire.
- If not using the product for long periods of time, be sure to pull the power plug from the AC outlet.

# Do not disassemble

• Do not attempt to disassemble the internal parts or modify them in any way.

# Water warning

 Do not expose the product 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 or places where water may drop. A liquid such as water getting into the product may cause a fire, electric shocks, or malfunctions.

- Use the AC adaptor indoors only. Do not use in any wet environments.
- · Never insert or remove a power plug with wet hands.

# Fire warning

• Do not place any burning items or open flames near the product, since they may cause a fire.

# Wireless unit

- Radio waves from this product may affect electro-medical devices, such as a heart pacemaker implant or defibrillator implant.
  - Do not use the product near medical devices or inside medical facilities. Radio waves from this product may affect electro-medical devices.
- Do not use the product within 15 cm (6 in.) of persons with a heart pacemaker implant or a defibrillator implant.

# Handling

- Magnetism from this product may affect electro-medical devices, such as a heart pacemaker implant or defibrillator implant.
  - Keep the product away from a heart pacemaker implant or a defibrillator implant.

# Batteries

- Do not dispose of a battery in a fire.
- Do not expose the battery to conditions of extreme low air pressure, cold or heat (such as in direct sunlight or a fire) or excessive dust or humidity.

Doing so may result in the battery bursting, causing a fire or injury.

- Follow the precautions below. Failure to do so might result in battery fluid leakage. If the contents of the battery gets on your hands or in your eyes, it can cause blindness, chemical burns, and damage of the product.
  - Use the specified battery type (page 69) only.
  - Do not use new batteries together with old ones.
  - Do not mix battery types.
  - Always make sure all batteries are inserted in conformity with the +/- polarity markings.
  - Do not disassemble a battery.

- When the batteries run out, or if the product is not to be used for a long time, remove the batteries from the product.
- Do not attempt to recharge batteries that are not designed to be charged.
- 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.
- When using rechargeable batteries, follow the instructions that came with the batteries. Use only the specified charger device and within the specified charging temperature range when charging.

Charging with an unspecified charger or at a temperature outside the range may cause leakage, overheating, explosion, or malfunction.

- Keep batteries away from children. A child could accidentally swallow a battery. Failure to observe this may also cause inflammation due to battery fluid leaks.
- Do not put batteries in a pocket or bag, or carry or store them together with pieces of metal. Batteries kept in such condition could short, burst, or leak, causing a fire or injury.

# If you notice any abnormality

• If any of the following problems occur, immediately turn off the power switch and disconnect the power plug from the outlet. If you are using batteries, remove all batteries from the product.

Finally have the device inspected by Yamaha service personnel.

- The power cord or plug becomes frayed or damaged.
- Unusual smells or smoke are emitted.
- Some object, or water has been dropped into the product.
- There is a sudden loss of sound during use of the product.
- Cracks or other visible damage appear on the product.

# 

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

# Location

• Do not place the product in an unstable position or a location with excessive vibration, where it might accidentally fall over and cause injury.

# Connections

- Before connecting the product 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 product to set the desired listening level.

# Handling

- Do not insert foreign materials such as metal or paper into any openings or gaps of the product. Failure to observe this may cause a fire, electric shocks, or malfunctions.
- Do not rest your weight on, or place heavy objects on the product, and do not use excessive force on the buttons, switches or connectors.
- Do not use the product 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.
- Remove the power plug from the AC outlet before cleaning the unit. Failure to observe this may cause electric shocks.

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

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

Even when the  $[\Phi]$  (Standby/On) switch is in standby status (display is 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 you unplug the power cord from the wall AC outlet. Make sure to discard used batteries according to local regulations.

# 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 app on your smart devices, such as a smartphone or tablet, we recommend that you enable "Airplane Mode" on the device to avoid noise caused by communication. When turning on airplane mode, **Bluetooth**<sup>®</sup> settings may be turned off. Make sure that the setting is turned on before use.
- Depending on the condition of surrounding radio waves, the instrument may possibly malfunction.
- 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 disfiguration, damage to the internal components, or unstable operation.
- Do not place vinyl, plastic, or rubber objects on the instrument, since this might discolor the instrument.

## Maintenance

• When cleaning the instrument, use a soft and dry/slightly damp cloth. Do not use paint thinners, solvents, alcohol, cleaning fluids, or chemical-impregnated wiping cloths.

## Saving settings

- Edited settings are lost when you turn off the power to the instrument. This also occurs when the power is turned off by the Auto Power Off function (page 22). Save the settings to the instrument, or a USB flash drive (page 27). However, the settings saved to the instrument may be lost due to some failure, an operation mistake, etc. Save your important settings onto a USB flash drive (page 27). Before using a USB flash drive, make sure to refer to page 23.
- To protect against settings loss through USB flash drive damage, we recommend that you save your important settings onto a spare USB flash drive as a backup file.

# Information

# About copyrights

The copyright of the "content"<sup>\*1</sup> installed in this product belongs to Yamaha Corporation or its copyright holder. Except as permitted by copyright laws and other relevant laws, such as copying for personal use, it is prohibited to "reproduce or divert"<sup>\*2</sup> without the permission of the copyright holder. When using the content, consult with a copyright expert.

If you create music or perform with the contents through the original use of the product, and then record and distribute them, the permission of Yamaha Corporation is not required regardless of whether the distribution method is paid or free of charge.

- \*1: The word "content" includes a computer program, audio data, Accompaniment Style data, MIDI data, waveform data, voice recording data, music score, and score data, etc.
- \*2: The phrase "reproduce or divert" includes taking out the content itself in this product, or recording and distributing it without changes in a similar manner.

# About this manual

- The illustrations and LCD screens as shown in this manual are for instructional purposes only.
- Unless indicated otherwise, the illustrations and displays as shown in this manual are based on the CK61 (in English).
- iPhone and iPad are trademarks of Apple Inc., registered in the U.S. and other countries.
- The Bluetooth<sup>®</sup> word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Yamaha Corporation is under license.

# **Bluetooth**°

• The company names and product names in this manual are the trademarks or registered trademarks of their respective companies.

## About disposal

When disposing of this product, please contact the appropriate local authorities.

## Firmware

To implement new functions and improve operability, this keyboard may be shipped with an updated version of the firmware installed. A set of manuals for the updated version of the firmware can be downloaded from the website below.

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

The firmware version of your keyboard can be checked from [MENU]  $\rightarrow$  Version Info.

# ΜΕΜΟ

# Welcome

Thank you for purchasing this Yamaha CK88 or CK61 Stage Keyboard!

As the name implies, it is an instrument designed especially for live performance.

With its high-quality sounds and comprehensive features, the CK is ideal in an exceptionally wide range of situations—from live venues, both indoors and outdoors, to studio rehearsal and recording, as well as practice and enjoyment at home.

We recommend that you read this manual carefully so that you can fully take advantage of the advanced and convenient functions of the CK. We also recommend that you keep this manual in a safe and handy place for future reference.

# Accessories

 $\Box$  Owner's Manual (this book)  $\times$  1  $\Box$  AC adaptor (PA-150B)  $\times$  1

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# About the CK88 and CK61

# **Main features**

The CK88 and CK61 are stage keyboards that are ideal for a wide variety of applications and locations.

- Uncompromising performance capabilities—on stage, in the studio, even outdoors
  - Loaded with authentic keyboard sounds such as pianos, electric pianos, and organs, as well as many other sounds crucial for contemporary keyboard performance.
  - Allows various combinations of three independent parts using layer and split functions, and features connectivity to an external keyboard, computer, or smartphone.
  - With its built-in stereo speakers and battery operation capability, you can use the CK virtually anywhere you want.

## Intuitive controls for instant sound crafting

- Features independent control sections for the filter, EG, and effects blocks. These are essential for dynamic sound-making, letting you tweak the sounds in real time as you perform.
- Built-in drawbars exclusively for real-time Organ Voice control—just as on an actual vintage organ.
- Single-button operation for enabling Portamento or unison sounds.

#### Extensive support functions for creative performance

- Convenient A/D INPUT jacks let you connect a microphone, and use exclusive built-in effects for the input. This is useful for singing and playing the keyboard in rehearsal or in small-group performances.
- Audio playback function via Bluetooth Audio connection enables performance along with playback of your favorite tunes or using background music from a Bluetooth-equipped device.
- Since the CK88 and CK61 are USB-compatible, connection with a computer or a smartphone is extremely quick and easy—a significant timesaver when setting up for video recording and online live streaming.

# **Basic structure**

The front panel of this keyboard is divided into three areas. Combining the settings in each of these areas gives you enormous flexibility in creating sounds.



Create and adjust the organ voice

Applying sound effects

Select a Voice for each of the three keyboard Parts A to C, as well as the On/Off settings and volume balance of each Part, the keyboard split, and effect settings, and then save these settings. You can call up these settings freely as you play and perform.

# Sound management system

The sound you create by combining these settings is managed through the Live Set function. Within each Live Set you can save a group of settings. One group of settings saved in the Live Set is called a "Live Set Sound."



Live Set Sounds can be switched instantly by using eight Live Set buttons on the front panel, even during a performance.

Also, eight Live Set Sounds can be registered on a Live Set Page, and you can call up other Live Set Pages by pressing the PAGE buttons.

There are 20 Live Set Pages, allowing you to use a total of 160 voices through this function.

As a factory default, Live Set Pages 1 to 10 contain preset Live Set Sounds.

Live Set	
Live Set Sound	
Part A Part B Part C DELAY REVERB EQ	
SETTINGS	
Live Set Page	
1 2 3 4 5 6 7 8 20 p	ages

Live Set Sounds can be saved to the internal memory of the keyboard or the USB flash drive, or through Soundmondo for backup and sharing.

- Internal memory
- USB flash drive
- Soundmondo (sound management and sharing service) https://www.yamaha.com/2/soundmondo

# **Panel controls**

# **Front panel**



# Pitch Bend Wheel

For use as the Pitch Bend controller. The Pitch Bend range can be set from the [SETTINGS] button  $\rightarrow$  Controllers  $\rightarrow$  Pitch Bend Range for each Part (page 31).

# **2** Modulation Wheel

For applying modulation to the sound. The modulation can be applied to pitch, amplitude, or filter.

You can change the Control Change number assigned to the wheel. Change the setting from the [SETTINGS] button  $\rightarrow$  Controllers  $\rightarrow$  Mod Wheel Assign (page 31).

#### NOTE

- Change the modulation depth and speed from the [SETTINGS] button → Sound → (Part) → Modulation (page 29).
- Modulation can be assigned to a different controller.

# [MASTER VOLUME] slider

For adjusting the overall volume of the CK.

# ROTARY [STOP] button

For stopping the rotation effect of the rotary speaker.

# BROTARY [SPEED] button

For changing the rotation speed of the rotary speaker. When the DRIVE is off, or the Drive Type other than *Rotary A* and *Rotary B* is selected, pressing the ROTARY [SPEED] button will activate the function and select *Rotary A*.

# **6** TRANSPOSE buttons

For adjusting the pitch of the entire keyboard in semitones. The value is transmitted as a MIDI message, but not saved for the Live Set Sound. Simultaneously press the [–] and [+] buttons to restore the value to "0."

#### NOTE

Simultaneously press one of the TRANSPOSE buttons and the [ENTER] button to set the *Sound Transpose* for the Live Set Sound (page 42).

The Sound Transpose setting is stored in a Live Set Sound.

# OCTAVE buttons

For changing the range of the keyboard in octaves. The value is transmitted as a MIDI message, but not saved for the Live Set Sound.

Simultaneously press the [–] and [+] buttons to restore the value to "0."

The octave setting can be set independently for each part by using the *Note Shift* function.

Pressing the OCTAVE button while holding down the PART button will make the OCTAVE button light in the corresponding part color (page 42).

The octave setting for the part (*Note Shift* setting) can be stored in a Live Set Sound.



# **3** VIBRATO/CHORUS [ON/OFF] button VIBRATO/CHORUS [TYPE] button

For setting the Vibrato/Chorus effects for the Organ voice.

These buttons can be used when the Organ Voices using the Organ Flutes tone generator (H, V, F, A, and Y) are selected (page 13).

Use the [ON/OFF] button to turn the Vibrato/Chorus effects on or off, and the [TYPE] button to select a vibrato or chorus type.

Pressing the button alternates sequentially between V (vibrato) 1 to 3 and C (chorus) 1 to 3.

#### NOTE

Simultaneously press the [ENTER] and VIBRATO/CHORUS [TYPE] buttons to show the list of VIBRATO/CHORUS types in reverse order. This is convenient for selecting a previous type on the list (page 42).

# PERCUSSION [ON/OFF] button PERCUSSION [Soft] button PERCUSSION [Fast] button PERCUSSION [2nd 3rd] button

For setting up the percussion sounds for Organ voice. These buttons can be used when the Organ Voices using the Organ Flutes tone generator (H, V, F, A, and Y) are selected.

Use the [ON/OFF] button to turn the percussion sounds on or off, the [Soft] button to lower the volume, and the [Fast] button to set the faster decay speed for the Percussion sounds.

Use the [2nd 3rd] button to change the pitch of the percussion sounds.

# **ORGAN FOOTAGE sliders**

For setting the component elements of the Organ Voice.

These sliders can be used only when the Organ Voices using the Organ Flutes tone generator (H, V, F, A, and Y) are selected.

Just as with the drawbars on a vintage organ, moving the sliders downwards (toward you) increases the volume of the component elements to make the overall organ tone louder. To create the organ tone you desire, you can move each of these sliders to change the component elements of the sound.

#### NOTE

- No organ sound will be produced if all the ORGAN FOOTAGE sliders are moved up.
- In many cases when calling up a setting from LIVE SET [1]–[8], the actual position of the sliders and the value of the setting do not match. Once you move a slider, its position is reflected in the settings. For changing the settings so that the values for the positions of all the sliders are immediately reflected in the settings without having to move the sliders, change the setting from the [MENU] button → General → Control Panel → Controller Mode (page 39).



The component tones produced by moving each of the sliders are shown below.



	Sliders	Tone
1	16'	8 scale degrees below
2	5 1/3'	5 scale degrees above
3	8'	Fundamental tone
4	4'	8 scale degrees above
5	2 2/3'	12 scale degrees above
6	2'	15 scale degrees above
7	1 3/5'	17 scale degrees above
8	1 1/3'	19 scale degrees above
9	1'	22 scale degrees above

# Part Volume Sliders

For setting the volume for each Part.

# Part [ON/OFF] buttons

For switching each Part on or off.

# Part [A]–[C] select buttons

For selecting the desired Part for changing the settings.

When the Part is enabled here, you can control the following settings from the front panel.

Voice category selection

- Organ voice settings
- MONO and UNISON settings
- Filter
- ۰EG
- Drive
- Effect1 and Effect2

By pressing multiple Part select buttons, you can set the same filter and effects for those selected Parts at once.

#### NOTE

By simultaneously holding down two of the Part select buttons, you can swap the settings for those Parts (page 42). This is convenient when you wish to switch the right- and left-hand Parts for the Split setting.

# Display (LCD)

For displaying the system messages, parameter settings, and other information depending on the function currently being used.

# [SETTINGS] button

For calling up the screens for making detailed settings for the currently selected Live Set Sound (page 28). You can make various settings, including the Part sound and controller customizations, Audio Trigger function, and the effects for A/D Input. After editing the settings, press the [STORE] button to store the settings.

Settings made here are stored in the Live Set Sound.

#### NOTE

Simultaneously press the [ENTER] and [SETTINGS] buttons to instantly initialize the Live Set Sound (page 42).

# (EXIT) button

While using the MENU and SETTINGS screens, press this button to exit from the current screen and return to the previous level.

Holding down the [EXIT] button returns to the Top screen.



# (MENU] button

For calling up the screens for making overall settings (page 36).

Simultaneously press the [ENTER] and [MENU] buttons to switch the panel lock on or off (page 42).

# (ENTER] button

For confirming the parameter value or each operation. By holding down the [ENTER] button and operating other buttons or knobs, you can use shortcut operations (page 42).

# VALUE buttons Encoder dial

For changing the currently selected parameter value. In the MENU and SETTINGS screens, use the encoder dial to move the cursor (or highlight) up and down.

# (SPLIT) button

For selecting the Split settings. Pressing the button turns on the Split function, and each time you press the button, the settings change alternately in the order listed below.

The lamp is on while the Split setting is selected, and the lamp is off while the Split setting is deselected, and the Layer setting is selected.

Settings	Descriptions
A/BC	Part A on the left section and Part B and C on the right section of the keyboard
AB/C	Part A and B on the left section and Part C on the right section of the keyboard
А/В/С	Part A on the left section, Part B on the center section, and Part C on the right section of the keyboard
ABC	Voices on Part A, B, and C are layered

The Split setting can be changed from the [SETTINGS] button  $\rightarrow$  Sound  $\rightarrow$  Common  $\rightarrow$  Layer/Split  $\rightarrow$  Mode (page 30).

# [SPLIT POINT] button

For viewing the screen for changing the Split Point or the lowest note on the right section.

Turn the Encoder dial or simply press the key you wish to assign as the Split Point.

Settings made here are stored in the Live Set Sound.

#### NOTE

- The Split Point can be set by simultaneously pressing the [SPLIT POINT] button and the key you wish to assign as a Split Point.
- The Split Point can be changed from the [SETTINGS] button → Sound → Common → Layer/Split → Split Point (page 30).

# CATEGORY buttons

For selecting a Voice from the Voice Category to use for the Part.

Every time you press the same button, the cursor moves to the next Voice in the same Category. Quickly pressing the button twice displays the Voice list. The Organ voices using the Organ Flutes tone generator (H, V, F, A, and Y) are available from the [Organ] button. These voices can be set using the ORGAN FOOTAGE sliders, PERCUSSION buttons, and VIBRATO/CHORUS buttons.

Types	Descriptions
н	A distinctive electric organ from the 1960s, characterized by sine-like waveforms that are simple yet warm. This type of organ was used in many genres of music, such as rock, pop, and jazz.
v	A transistor organ from the 1960s. With harmonic content very close to that of a square wave, it had a sound of great presence. This type of organ was often used in psychedelic rock and ska.
F	A transistor organ from the 1960s. This type of organ is notable for its thick sound with the sawtooth components boosted in volume. It was often used in 60s pop music and alternative pop of the 90s.
A	A transistor organ made in Japan during the 1970s. This type of organ was notable for a bright sound similar to that produced by the sawtooth waveforms of a synthesizer.

0

0

Types

#### γ A Yamaha transistor organ released in 1972. With

Descriptions

harmonic content very close to that of a square wave, it was characterized by significant presence in the high range and extreme sound clipping with increased distortion.

STOP

ROTARY SPEED

4

6

OCTAVE

7

TRAN - + C 8

o V3

o C2 o C3

# **B** MONO-TYPE buttons

For setting the tone generation mode for the selected Part.

Use the [MONO] button to switch between Mono and Poly. The Mono mode is for playing a single note at a time and the Poly mode is for playing chords. Use the MONO [TYPE] button to select the *Mono* mode type. This also features Portamento types commonly used for classic pitch slides in synth lead sounds.

Туре	Descriptions
Normal	Simple Mono mode without Portamento
Fingered Portamento	<i>Mono</i> mode with Portamento used only while playing legato
Full-Time Portamento	<i>Mono</i> mode with Portamento used even when lifting your fingers from the keyboard

#### NOTE

- The time and mode for Portamento can be changed from the [SETTINGS] button  $\rightarrow$  Sound  $\rightarrow$  Part  $\rightarrow$  Mono/Portamento (page 28).
- Simultaneously press the [ENTER] and MONO [TYPE] buttons to view the screen for the Portamento time setting (page 42).

# 2 UNISON-TYPE buttons

For setting Unison for the selected Part.

Use the [UNISON] button to turn the Unison mode on or off, and the UNISON [TYPE] button to select a Unison type. When the Unison mode is on, the Part sounds are layered to make them sound richer and thicker. In this Unison function, the Part sounds including the Insertion Effects are layered.

Туре	Description
Multi Layer	<i>Unison</i> that layers the Part sound played on the keyboard
Harmonics	<i>Unison</i> that layers the Part sound played on the keyboard at one octave higher
Sub Harmonics	<i>Unison</i> that layers the Part sound played on the keyboard at one octave lower

1

Plano

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21

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12

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Change the Unison volume and Detune setting from the [SETTINGS] button  $\rightarrow$  Sound  $\rightarrow$  Part  $\rightarrow$  Unison (page 28).

#### NOTE

Simultaneously press the [ENTER] and UNISON [TYPE] buttons to view the screen for the Unison Detune setting (page 42).

# (STORE] button

For saving (storing) the edited Live Set Sound. When storing, the following settings are saved to the internal memory of the keyboard.

Stored settings will be retained when the CK is turned off.

- Voices on Part A–C
- Organ voice settings (Rotary Speaker, Vibrato/ Chorus, and Percussion)
- Filter
- FG
- Drive
- Effect1 and Effect2
- Delay
- Reverb
- [SETTINGS] (including Split and Transpose)

#### NOTE

EQUALIZER settings are stored to a Live Set Sound if Live Set EQ is set to On (page 30).

# [INPUT] button

For setting the volume and effects for the audio input from the A/D INPUT jack. Pressing this button shows the same screen as

pressing the [SETTINGS] button  $\rightarrow$  A/D Input.



# PAGE buttons

For switching the Live Set Page. The Live Set Sound changes accordingly.

Simultaneously press the [<] and [>] buttons to call up the Live Set View. In the Live Set View, you can use the VALUE buttons and the Encoder Dial to select a Live Set Sound from a different Live Set Page. To go back to the Top screen, press the [EXIT] button.

# LIVE SET [1]–[8] buttons

For calling up a Live Set Sound from the eight of the Live Set Sounds in the currently selected Live Set Page. Change the Live Set Page using the PAGE button.

## FILTER [ON/OFF] button FILTER [CUTOFF] knob FILTER [RESONANCE] knob

For applying a filter to the currently selected Part. By setting the [ON/OFF] button to *off*, the filter is instantly reset to the initial value for the Voice.

## [CUTOFF] knob

For setting the cutoff frequency of the low-pass filter. The sound can be brightened by moving the knob to the right or darkened by moving it to the left.



#### NOTE

How the filter is applied varies depending on the Voice being used.

## [RESONANCE] knob

For setting the resonance, which changes the character of the sound. This effect can be made more pronounced by moving the knob to the right and less pronounced by moving it to the left.



# EG [ON/OFF] button EG [ATTACK] knob EG [RELEASE] knob

For applying an EG (Envelope Generator) to the currently selected Part.

By setting the [ON/OFF] button to *off*, the EG is instantly reset to the initial value for the Voice.

#### [ATTACK] knob

For adjusting the attack for the EG. Turn the knob to the left to make the attack faster, and to the right to make the attack slower.

#### [RELEASE] knob

For adjusting the release for the EG. Turn the knob to the left to make the release faster, and to the right to make the release slower.



#### NOTE

How the EG is applied varies depending on the Voice being used.

#### 0 0 6 8 TRAN - + C oV2 oV3 oC2 oC3 o 3rd o 2nd 1 11 OCTAVE [[ 7 12 **\_**₩ Plano STOP ß 21 ROTARY SPEED

# ORIVE [ON/OFF] button DRIVE [DEPTH] knob Drive type select buttons

For setting Drive, which applies on overdrive effect to the currently selected Part.

Use the [ON/OFF] button to turn Drive on or off, and use the [DEPTH] knob to adjust values. Use the Drive Type select buttons to select a type.

Туре	Description
O.Drive	Warm distortion effect (overdrive)
Dist	Hard rock distortion
Rotary A	Standard rotary speaker for organ.
Rotary B	The rotary speaker connected to a transistor preamplifier with strong distortion.
Comp	Versatile compressor controlled by a single knob

# EFFECT 1 [ON/OFF] button EFFECT 2 [ON/OFF] button EFFECT [DEPTH] knob EFFECT [RATE] knob EFFECT [TYPE] knob EFFECT1-EFFECT2 select button

For applying Insertion Effects to the currently selected Part. The Insertion Effects are applied in a path to Effect 1 and then to Effect 2.

Use the [ON/OFF] button to turn the Effect on or off, and use the EFFECT1–EFFECT2 select button to select EFFECT1 or EFFECT2. The [TYPE] knob is used to select a type, the [DEPTH] knob to adjust the Insertion Effect depth, and the [RATE] knob to adjust the Insertion Effect rate.

#### NOTE

Simultaneously press the [ENTER] and EFFECT1–EFFECT2 select buttons to swap the EFFECT 1 and EFFECT 2 settings. This conveniently lets you change the order of the applied effects (page 42). There are various types of Insertion Effects with different characteristics.

There are 10 effect type categories available. The category lamp for the selected effect type lights up.

Category	Description
Chorus	Adds spaciousness and thickness to the sound, as if multiple sounds are played at once.
Flanger	Creates metallic sweeping sounds like a jet plane.
Phaser	Creates a phase-shifting effect that uses feedback circuitry as well as phase shift circuitry that mixes the phase-shifted sound with the original sound.
Trm/Rtr	<i>Trm</i> (Tremolo) is an effect that cyclically modulates the volume. <i>Rtr</i> (Rotary Speaker) is an effect that simulates a rotary speaker, which is popular for Organ sounds.
Dist	An effect that distorts sounds.
Comp/EQ	<i>Comp</i> (compressor) is an effect that compresses loud sounds or boosts soft sounds to even out the dynamics of the audio signal. <i>EQ</i> is an effect that changes the tonal character of the sound.
Wah	Creates a characteristic "wah-wah" sound by changing the frequency response of the filter.
Delay	Creates echo effects by delaying the time of the input sound.
Reverb	Creates a sense of space and ambience by artificially producing complex echoes.
Others	Other types of effects that are not included in the above categories.

For more information on the effect types, see the "Effect list" on page 43.

#### NOTE

By holding down the [ENTER] button and operating the EFFECT [TYPE] knob, you can select the first item of the previous or the next category. This is convenient for quickly finding the category you wish to use (page 42).



# DELAY [ON/OFF] button DELAY [TYPE] button DELAY [DEPTH] knob DELAY [TIME] knob

Use the [ON/OFF] button to turn the Delay on or off. Use the [TYPE] button to select a type, the [DEPTH] knob to set the delay depth, and the [TIME] knob to adjust the delay length.

Туре	Description
Digital Delay	Clean digital delay Use the [DEPTH] knob to adjust the depth and feedback level, and the [TIME] knob to adjust the delay time.
Analog Delay	Delay with warm analog sound Use the [DEPTH] knob to adjust the feedback level and the [TIME] knob to adjust the delay time.
Cross Delay	Delay that crosses the delay sound from left to right and from right to left Use the [DEPTH] knob to adjust the depth and feedback level, and the [TIME] knob to adjust the speed.
Tempo Delay	A special delay that syncs to the tempo of the song. The delay is applied by specifying the Tempo ( <i>Tempo Delay Time</i> ) and the note length. The initial value is 1/4 (quarter note).
	Use the [DEPTH] knob to change the delay depth and feedback level, and the [TIME] knob to adjust the delay tempo. Another intuitive way of setting the tempo is to tap the [ENTER] button at least three times.
	Tempo Delay Time can be set by using the [TIME] knob while holding down the [ENTER] button (page 42), or from the [SETTINGS] button $\rightarrow$ Sound $\rightarrow$ Common $\rightarrow$ Tempo Delay Time.

# REVERB [ON/OFF] button REVERB [TYPE] button REVERB DEPTH knob

Use the [ON/OFF] button to turn the Reverb on or off. Use the [TYPE] button to select a type and the REVERB DEPTH knob to adjust the reverb depth.

Туре	Description		
Hall Reverb	Simulates the sound of a concert hall.		
Room Reverb	Simulates the sound of a room.		
Plate Reverb	Simulates the sound of a plate reverb.		

# EQUALIZER slider

For adjusting the Master EQ. The lamp turns on when the slider value is set to a value other than 0.

Set the Frequency for each type from the [MENU] button  $\rightarrow$  General  $\rightarrow$  System  $\rightarrow$  Master EQ (page 36).

Туре	Description	
[HIGH]	Gain for the high-frequency band (500 Hz–16 kHz)	
[MID]	Gain for the mid-frequency band (100 Hz–10 kHz)	
[LOW]	Gain for the low-frequency band (32 Hz–2 kHz)	

EQUALIZER settings are stored to a Live Set Sound if *Live Set EQ* is set to *On* (page 30).

The *Live Set EQ* setting is changed from the [SETTINGS] button  $\rightarrow$  Sound  $\rightarrow$  Common  $\rightarrow$  Live Set EQ (page 30).

# Rear panel



# IDC IN] jack (page 20)

For connecting the included AC adaptor.

# ② [<sup>⊕</sup>] (STANDBY/ON) switch (page 22)

For switching the CK to standby  $(\blacksquare)$  or turning it on  $(\blacksquare)$ .

# **3** OUTPUT jacks

Standard phone (unbalanced) jacks for outputting audio signals. For output in mono, connect only to the [L/MONO] jack.

# **4** A/D INPUT jacks

Standard phone jacks (1/4" mono phone plug) for receiving audio from the external audio device. Musical instruments such as synthesizers, audio devices, such as portable music players, as well as dynamic microphones can be connected to these jacks, and the audio input signals can be played as an audio Part. In addition, the effects can be applied to external audio signals. The effect type can be set from the [INPUT] button.

To switch the input source (to *Line* or *MIC*), use the [MENU] button  $\rightarrow$  *General*  $\rightarrow$  *Audio*  $\rightarrow$  *A/D Input Type*.

#### NOTE

The CK does not support phantom-powered condenser microphones.

# A/D INPUT [GAIN] knob

The external audio source input via these jacks is mixed in with the sounds played by the CK. Use this knob to adjust the balance between the external audio and the CK sounds.

# **6** FOOT PEDAL jacks

For connecting a separately sold sustain pedal. The compatible pedals are Foot Pedal FC3A, Footswitch FC4A, Footswitch FC5, and Foot Controller FC7. Set the pedal type from the [MENU] button  $\rightarrow$  General  $\rightarrow$  Foot Pedal.

#### NOTE

When the pedal connected to the jack and the *Foot Pedal* setting do not match, the pedal may not work properly or may malfunction. Make sure to select the correct pedal type for the pedal connected to the jack.

You can assign functions such as sustain or sostenuto from the [SETTINGS] button  $\rightarrow$  Controllers  $\rightarrow$  Foot Pedal 1 or Foot Pedal 2  $\rightarrow$  Assign (page 31).

# **⑦** SPEAKERS switch

For tuning the built-in speakers on or off. If this switch is on and the *Speaker Mute* is set to *Auto*, the built-in speakers will automatically be muted when the headphones are connected.

To change the Speaker Mute setting, set from the [MENU] button  $\rightarrow$  General  $\rightarrow$  System  $\rightarrow$  Speaker  $\rightarrow$  Speaker Mute.



# **8** MIDI terminals

With a standard MIDI cable (commercially available), you can connect an external MIDI instrument, and control it from the CK. Likewise, you can use an external MIDI device (such as a keyboard or sequencer) to control the internal tone generator on the CK.

# USB [TO DEVICE] terminal

For connecting a USB flash drive to the CK, allowing you to save a Live Set Sound you have stored, load a Live Set Sound back to the CK, or play audio files.

#### NOTE

- Only a USB flash drive can be connected to the USB [TO DEVICE] jack. No other USB devices such as a hard disk drive, CD-ROM drive, or USB hub can be used.
- You cannot record your performance onto a USB flash drive.

# USB [TO HOST] terminal

For connecting the CK to a computer, iPhone, or iPad via a USB cable for using the MIDI and audio capability. With the USB [TO HOST] terminal, two MIDI ports (page 48) can be used simultaneously.

#### NOTE

The USB [TO HOST] terminal has the capacity for handing two mono channels (or one stereo channel) of 24-bit audio at a sampling rate of 44.1 kHz.

# (PHONES) jack

For connecting a 6.3-mm standard stereo phone jack to connect headphones.

When the *Speaker Mute* is set to *Auto*, the built-in speakers will be muted when the headphones are connected.

# 

- To prevent hearing loss, avoid using headphones at high volumes for extended periods of time.
- Whenever connecting external audio devices, ensure that all devices are turned off.

#### NOTE

The sound output via the headphones is identical to that output via the OUTPUT jacks. The sound is output via OUTPUT jacks regardless of whether or not the headphones are connected.

The [PHONES] jack on the CK88 can be found on the front side.

## For CK88



# Setting up

Although the CK will run either from an AC adaptor or batteries, Yamaha recommends the use of an AC adaptor whenever possible. An AC adaptor is more environmentally friendly than batteries and does not deplete resources.

#### NOTICE

It is recommended to use the AC adaptor when executing USB flash drive operations, since battery power may not be reliable enough to last through these crucial operations.

# **Using an AC adaptor**

Make sure that the  $[\Phi]$  (Standby/On) switch is in a standby position (the switch is up), then connect the AC adaptor in the order shown in the illustration.

1. Wrap the DC output cable of the AC adaptor around the cord hook (as shown below), and then connect the plug of the adaptor to the DC IN jack on the rear panel.



#### NOTICE

Use of the cord hook prevents accidental unplugging of the cable during operation. Make sure to avoid tightening the cord more than necessary or pulling on the cord strongly while it is wrapped around the cord hook, in order to prevent wear on the cord or possible breakage of the hook.

# 2. Connect the other end of the AC adaptor to an AC outlet.





- Use the specified AC adaptor (page 69) only. Using the wrong AC adaptor can result in damage to the instrument or overheating.
- When using the AC adaptor with a removable plug, make sure to keep the plug attached to the AC adaptor. Using the plug alone can cause electric shock or fire.
- If the plug is accidentally removed from the AC adaptor, 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.



The shape of the plug differs depending on your area.

# 

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 the power off and disconnect the plug from the outlet.

#### NOTE

- Follow the order shown above in reverse when disconnecting the AC adaptor.
- When the AC adaptor is connected, the adaptor is used for supplying power to the instrument regardless of whether or not the batteries are installed to the instrument.
- Do not insert or remove the DC plug with the [Φ] (Standby/On) switch set to the On position (—). Failure to observe this precaution can lead to malfunction.

# **Using batteries**

The CK requires eight "AA" size, Alkaline (LR6) or rechargeable nickel-metal hydride batteries (rechargeable Ni-MH batteries). Use of the AC adaptor is recommended when keeping the CK on for an extended time.

## 1. Make sure that the CK is turned off.

2. Turn the CK over and place the top side on a soft cloth.



The bottom of the CK

#### 3. Open the battery compartment cover.





**4.** Insert the eight new batteries, being careful to follow the polarity markings on the inside (or next to) the compartment.

CK61



CK88



5. Close the compartment cover until it clicks into place.



## 6. Turn the CK face up.

Do not leave the CK with the front panel side down.

#### NOTICE

- Connecting or disconnecting the AC adaptor with batteries installed may turn the power off, resulting in loss of data being edited at the time.
- When battery power becomes too low for proper operation, the volume may be reduced, the sound may be distorted, and other problems may occur. When this happens, make sure to replace all batteries with new ones or already recharged ones.

#### NOTE

- This instrument cannot be used to charge the batteries. Use only the specified charger device when charging.
- Power will be automatically drawn from the AC adaptor if an AC adaptor is connected while batteries are installed in the instrument.

# Remaining battery power indication

Indication Description	
Indicates that the remaining power is sufficie	
	Indicates that the remaining power is insufficient for operation. The built-in speakers will be turned off after this indication is shown. Save the settings you are editing and replace all the batteries with new ones.

# Turning the power on Turning the power off

Make sure the volume settings of the CK and external devices such as powered speakers are turned down to the minimum before turning the power on. When connecting the CK to monitor speakers, turn on the power switch on each device in the following order.

# Turning on

Turn the [MASTER VOLUME] slider of the CK to its minimum  $\rightarrow$  set the [ $\oplus$ ] (STANDBY/ON) switch to on ( $\_$ ).  $\rightarrow$  turn the amplifier or speaker power on.

# Turning off

Turn the [MASTER VOLUME] slider of the CK to its minimum  $\rightarrow$  turn the amplifier or speaker power off  $\rightarrow$  set the [ $\oplus$ ] (STANDBY/ON) switch to standby (**L**).

# Setting the Auto Power Off function

The *Auto Power Off* function automatically turns off the CK after 15 minutes of inactivity. As a factory default, *Auto Power Off* is set to *Auto*.

With the *Auto* setting, the *Auto Power Off* function is disabled while the AC adaptor is being used, and enabled while the batteries are being used.

## NOTICE

- The setting will revert to its default value if not backed up before the power is turned off. Make sure to store the settings before the *Auto Power Off* function becomes activated (page 24).
- When the instrument is not operated for a specified period of time while connected to an external device such as an amplifier, speaker, or computer, make sure to follow the instructions in the Owner's Manual to turn off the power to the instrument and the connected devices in the proper sequence, in order to protect the devices from damage. If you do not want the power to turn off automatically when a device is connected, disable *Auto Power Off.*

# Auto Power Off setting

Change the setting from the [MENU] button  $\rightarrow$  General  $\rightarrow$  System  $\rightarrow$  Auto Power Off (page 36).

# **Connecting headphones**

Connect a pair of headphones to the [PHONES] jack.



Standard stereo phone plug

When a set of headphones are connected while the *Speaker Mute* is set to *Auto*, the built-in speakers will be muted. When set to *Manual*, the built-in speakers will be muted by setting the SPEAKERS switch on the rear panel to OFF.

The setting can be changed from the [MENU] button  $\rightarrow$  General  $\rightarrow$  System  $\rightarrow$  Speaker.

While the built-in speakers are muted, the output from the [PHONES] jack will also be output from OUTPUT jacks.

# 

- Do not use the headphones for a long period of time at a high volume level, since this can cause permanent hearing loss.
- Before connecting the instrument to other electronic components, turn off the power of all the components. Also, before turning any components on or off, make sure to set all volume levels to a minimum. 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, and then to the external device. When turning off the power, do so in reverse order: first turn off the power to the external device, and then to the instrument.

# Using a USB flash drive

By connecting a USB flash drive to the USB [TO DEVICE] terminal on the rear panel, you can save the Live Set Sounds as backup files or load settings back from the backup files.

# Precautions when using the USB [TO DEVICE] terminal

When connecting a USB flash drive to the USB [TO DEVICE] terminal, be sure to follow the important precautions shown below.

#### NOTE

For more information on the handling of the USB flash drives, refer to the Owner's Manual of your USB flash drive.

#### Compatible USB devices

• USB flash drives only

Other USB devices such as a USB hub, computer keyboard, or mouse cannot be used.

The instrument does not necessarily support all commercially available USB devices. Yamaha cannot guarantee the operation of USB devices that you purchase. Before purchasing a USB device for use with this instrument, please visit the following web page: <u>https://download.yamaha.com/</u>

Although USB 1.1 and 2.0 devices can be used on the CK, the amount of time for saving to or loading from the USB flash drive may differ depending on the type of data or the status of the instrument.

#### NOTICE

The rating of the USB [TO DEVICE] terminal is a maximum of 5 V / 500 mA. Do not connect USB devices having a rating above this, since this can cause damage to the instrument itself.

## Connecting a USB flash drive

When connecting a USB flash drive to the USB [TO DEVICE] terminal, make sure that it is connected in the proper direction.

#### NOTICE

- Avoid connecting or disconnecting the USB device during file management operations (such as Save, Copy, Delete, and Format), or when accessing the USB flash drive.
   Failure to observe this may result in "freezing" of the operation of the instrument or corruption of the USB flash drive.
- When connecting then disconnecting the USB flash drive (and vice versa), make sure to wait a few seconds between the two operations.
- Do not use cables for connecting the USB flash drive.

## Formatting the USB flash drive

Some USB flash drives should be formatted with this instrument before they can be used (page 36). The USB flash drives formatted on other instruments or devices may not work properly.

#### NOTICE

The format operation erases any existing files. Make sure that the USB flash drive you are formatting does not contain any important files.

#### ■ To protect your files (Write Protection)

To prevent important files from being inadvertently erased, write-protect the USB flash drive. When you are saving files to the USB flash drive, make sure you disable the write-protection first.

## Turning off the instrument

When turning off the instrument, make sure that the instrument is NOT accessing the USB flash drive by file management (such as during Save, Copy, Delete and Format operations). Failure to do so may corrupt the USB flash drive and the files.

# **Basic operations**

# **Top screen configuration**

This section explains the Top screen which appears when the CK is turned on.



# 1 Live Set Sound number

Shows the currently selected Live Set Sound number. With the initial setting, number 1-1 will be called up at startup.

To use a different Live Set Sound number for startup, change the setting from the [MENU] button  $\rightarrow$  General  $\rightarrow$  System  $\rightarrow$  Power on Sound (page 36).

# **2** Voice

Shows the Voice name when the Part is on. With some Organ voices, the Voice name and the Drawbar settings will be shown.

# **③** Split and Layer

Shows the current split and layer status of each Part. The split point is the lowest key on the right keyboard range.

# Other icons

4		Panel lock is on. The setting can be changed by simultaneously pressing both the [ENTER] and [MENU] buttons.
6	TP: +2	Sound Transpose for the Live Set Sound is set to a value other than $0$ (-12 to +12).
6	EQ	Live Set EQ is set to on.
0	TRG	Audio Trigger is set to ON.
8	MST	Master Keyboard is set to ON.
9	*	Connected via Bluetooth.
Image: Battery level (shown of battery operation).		Battery level (shown only during battery operation).
0	(For Part A)	<i>Touch Sensitivity</i> for the Part has been changed.



External Keyboard for the Part is set to ExtOnly

Play the external keyboard to sound the internal tone generator.



Note Shift for the Part is set to a value other than 0 ( $\pm$ 24) When the note value is -24, -12, +12, and +24, it is shown as OCT-2, OCT-1, OCT+1, and OCT+2

# **Creating a Live Set Sound**

Use the Live Set Sound for sound-making.

Select a voice and combine voices

1::=0	000	0000000

Adjust the organ sound

Apply sound effects

Select a Live Set Sound

The basic sound-making procedures are as shown below.

- 1. Select a Live Set Sound.
- 2. Select a Voice for each Part.
- 3. Set a combination of these Voices.
- 4. Creating an Organ voice.
- 5. Modify sounds using EG, Filter, Effects, MONO, and Unison settings.
- **6.** Save the Live Set Sound.

# Saving the Live Set Sound

Edited Live Set Sounds are saved to the internal memory of the CK by pressing the [STORE] button.

## 1. Press the [STORE] button.

A screen for selecting the Live Set Sound to be stored appears.



#### 2. Use the Encoder dial to select the desired Live Set Sound number for saving to.

You can audition the Voice already saved to the Live Set Sound number by playing the keyboard before saving the new one.

#### NOTICE

- The settings will be overwritten if you select the same number as an existing Live Set Sound.
- The settings currently editing will be lost if you select a different Live Set Sound or turn off the power before storing the settings.

## 3. Press the [ENTER] button to store.

When the store operation is complete, the message *"Completed"* will appear and operation returns to the Top screen.

If a different Live Set Sound Number was selected when saving the currently editing Live Set Sound, the Live Set Sound before the edit will be kept unchanged in the original Live Set Sound Number.

#### NOTE

If you have accidentally changed to a different Live Set Sound causing your edits to be lost, you can use the *Edit Recall* function to recall the last edited status (page 40).

# **Other Live Set Sound features**

These powerful and convenient features for Live Set Sound let you apply effects to the audio input via A/D input or play back an audio file while performing on the keyboard.

# Applying effects to audio signals from the A/D INPUT jacks

You can connect another electronic musical instrument, guitar, or a microphone to the A/D INPUT jacks, and apply dedicated effects to those external audio sources.

Here, we'll cover how to use a dynamic microphone.

## 1. Connect a dynamic mic to the A/D Input [L/ MONO] jack on the rear panel.

Example for a dynamic mic



- **2.** Select Mic from the [MENU] button  $\rightarrow$  *General*  $\rightarrow$  *Audio*  $\rightarrow$  *A/D Input Type.*
- **3. Press the [INPUT] button.** The *A/D Input* screen appears.
- **4.** Select an effect type from the Input Effect1 or Input Effect2 TYPE.

This completes the setup. Press the [STORE] button to save the *A/D Input* settings to the Live Set Sound.

# Playing back an audio file

While playing the Live Set Sound, you can play back an audio file saved on a USB flash drive using a single key on the keyboard.

# 1. Save the desired audio file (.wav) to the USB flash drive from a computer.

The supported audio file is in .wav format (44.1 kHz, 16-bit, Stereo). Files of .wav format in 48-kHz or mono cannot be played back on the CK.

# 2. Insert the USB flash drive to the USB [TO DEVICE] terminal on the rear panel.

**3.** Select from the [SETTINGS] button  $\rightarrow$  *Function*  $\rightarrow$  *Audio Trigger*.

## 4. Change the settings.

- Switch: Set to ON
- File: Select the audio file to play back
- Volume: Set the playback volume
- *Key Assign*: Select the rightmost key or the leftmost key to start or stop playback.
- Play Mode: Sets the mode for playback

# 5. Press the key specified in *Key Assign* to start playback at the desired timing.

Playback then starts.

Set the mode for playing back audio files from *Play Mode*.

The Play Mode setting can be changed from the [SETTINGS] button  $\rightarrow$  Function  $\rightarrow$  Audio Trigger  $\rightarrow$  Play Mode (page 32).

# **Managing Live Set Sounds**

# **Editing Live Set Sound names**

Select the desired Live Set Sound for which you wish to edit the name  $\rightarrow$  [SETTINGS] button  $\rightarrow$  Name  $\rightarrow$  Edit the name  $\rightarrow$  [ENTER] button  $\rightarrow$  Select Store.

#### NOTE

If "Do not store now" is selected, the Live Set Sound will not be stored, but the edited name will be retained.

# Operations during name edit

Use the Live Set Sound [1] and [2] buttons to move the cursor to the position of the character you wish to edit. Use the VALUE buttons and Encoder dial to select characters, and then use other buttons as listed below to edit the name.

Cursor



Character selected for entry

Buttons	Functions	
LIVE SET [1]	Moves the cursor to left.	
LIVE SET [2]	Moves the cursor to right.	
LIVE SET [3]	Inserts a highlighted character at the cursor position.	
LIVE SET [4]	Deletes the character at the cursor position.	
LIVE SET [5]	Changes the highlighted character at the cursor position to the desired one.	
LIVE SET [7]	Reverts all characters to the unedited name.	
LIVE SET [8]	Deletes all characters.	
[ENTER]	Saves the name and ends editing.	
[EXIT]	Ends editing without saving the name.	

# Swapping or copying Live Set Sounds

- 1. Call up the Live Set Sound you want to swap from or copy from.
- **2.** Use the [MENU] button  $\rightarrow$  Job  $\rightarrow$  Live Set Manager  $\rightarrow$  Swap or Copy.
- **3.** Use the Encoder dial to select the desired Live Set Sound to swap to or to copy to.



## 4. Press the [ENTER] button.

When the operation is completed, the message "Completed" appears on the screen, and then operation returns to the Top screen.

# **Initializing a Live Set Sound**

When initializing a Live Set Sound, only Part A is enabled (set to ON), and the first Voice in the Piano category will be selected. All settings for Filters, EG, and effects will be reset to their initial values.

- 1. Call up the Live Set Sound you want to initialize.
- **2.** Select from the [MENU] button  $\rightarrow$  Job  $\rightarrow$  Live Set Manager  $\rightarrow$  Initialize.
- **3.** Use the Encoder dial to select *Live Set Sound Init*.

## 4. Press the [ENTER] button.

When initialization is complete, the message "Completed" appears on the screen, and then operation returns to the Top screen.

#### NOTE

If you want to reset the Live Set Sound to the default settings, simultaneously press the [EXIT] and [SETTINGS] buttons (page 42). This operation does not overwrite the stored Live Set Sound.

# Saving the Live Set Sound to a USB flash drive

The Live Set Sound stored in the internal memory of the CK can be saved to a USB flash drive as a backup file.

Before using a USB flash drive, be sure to read "Precautions when using the USB [TO DEVICE] terminal" (page 23).

# 1. Connect a USB flash drive to the USB [TO DEVICE] terminal of the CK.

**2.** Select the [MENU] button  $\rightarrow$  *File*.

#### 3. Select the type of file you wish to save.

File type	Description
Back Up File	All Live Set Sounds including the settings for the entire instrument.
Live Set All File	All Live Set Pages.
Live Set Page File	Currently selected Live Set Page.
Live Set Sound File	Currently selected Live Set Sound.

# **4.** Select *Save* and press the [ENTER] button to call up the screen for selecting the destination.

- When saving as a new file Select New File.
- When overwriting an existing file Select the desired file from the displayed list.

#### 5. Press the [ENTER] button.

The Save \*\*\* File screen for editing file name appears. For details on name editing operations, see "Operations during name edit" (page 26).

#### **6.** Press the [ENTER] button to save.

When the save operation is complete, a "Completed" message appears in the display, and then operation returns to the Top screen.

# Changing a previously saved file name

[MENU] button  $\rightarrow$  File  $\rightarrow$  File Utility  $\rightarrow$  Rename  $\rightarrow$ Select the desired file for which you wish to edit the name  $\rightarrow$  Edit the name  $\rightarrow$  [ENTER] button to save the file.

# Loading a Live Set Sound from a USB flash drive

For file types other than a *Live Set Sound File*, you can select and load a single desired Live Set Sound included in the file.

To do this, select *Load Live Set Sound* in step 6 to call up the screen for selecting a specific Live Set Sound in the file. Then select the desired Live Set Sound to load. The setting is loaded into the currently selected Live Set Sound number.

#### NOTICE

The Load operation overwrites the Live Set Sounds stored in the CK. Important settings should always be saved to a USB flash drive.

- 1. Connect a USB flash drive to the USB [TO DEVICE] terminal of the CK.
- **2.** Select the [MENU] button  $\rightarrow$  *File*.

# **3.** Select the type of file you wish to load from the USB flash drive.

File type	Description
<i>Back Up File</i> (Extension .Y1A)	All Live Set Sounds including the settings for the entire instrument.
<i>Live Set All File</i> (Extension .Y1L)	All Live Set Pages.
Live Set Page File (Extension .Y1P)	One Live Set Page. The file will be loaded to the currently selected Live Set Page.
Live Set Sound File (Extension .Y1S)	One Live Set Sound. The file will be loaded to the currently selected Live Set Sound.

## 4. Select *Load* and press the [ENTER] button.

## 5. Select the file in the USB flash drive.

To cancel the load operation, select *Cancel* and press the [ENTER] button.

# **6.** Select *Load All* or *Load to \*\*\** and then press the [ENTER] button.

When the load operation is complete a "*Completed*" message appears in the display, and then operation returns to the Top screen.

# **Advanced settings**

# Live Set (SETTINGS button)

From the [SETTINGS] button, you can configure and store the various settings of the currently selected Live Set Sound. After editing, make sure to save the settings by pressing the [STORE] button. The changes made here will be stored to the Live Set Sound.

## Operation

## 1. Press the [SETTINGS] button.

## 2. Use the VALUE buttons and Encoder dial to select an item, and then press the [ENTER] button.

#### NOTE

You can also use the LIVE SET buttons [1] to [6] to select the item. The LIVE SET buttons [1] to [6] correspond to the items shown on the display in order from the top. The buttons light up when this feature is available.

## **3.** Use the VALUE buttons or Encoder dial to change the value, and then press the [ENTER] button.

When the setting has been changed, the operation goes back to the previous screen for selecting the settings item.

# Sound

Function name			Description	
Part A Part B Part C	Mono/ Portamento	Mono/Poly	Selects whether to play the Part as monophonic ( <i>Mono</i> ) or polyphonic ( <i>Poly</i> ). <b>Default:</b> <i>Poly</i>	
Parte		Туре	<ul> <li>Determines how the portamento effect is used depending on how you play the keys.</li> <li><i>Normal</i>: The normal mono sound is played. Portamento is not used.</li> <li><i>Fingered</i>: Portamento is used only when you play legato (playing a key while still holding the previous key).</li> <li><i>Full-time</i>: Portamento is always used.</li> <li>Default: Normal</li> </ul>	
		Portamento Time	Determines the speed or time that takes for the portamento pitch change. <b>Settings:</b> 0–127	
		Portamento Time Mode	<ul> <li>Determines the time standard for portamento pitch change.</li> <li><i>Rate</i>: The pitch changes at the specified speed.</li> <li><i>Time</i>: The pitch changes over the specified time.</li> <li><b>Default:</b> <i>Rate</i></li> </ul>	
	Unison	Switch	Enables or disables the Unison function.	
		Туре	<ul> <li>Selects a Unison type.</li> <li>Multi Layer: The Part sound played on the keyboard is layered</li> <li>Harmonics: The Part sound played on the keyboard is layered at one octave higher</li> <li>Sub Harmonics: The Part sound played on the keyboard is layered at one octave lower</li> <li>Default: Multi Layer</li> </ul>	
		Volume	Adjusts the Part volume layered with the Unison function. <b>Settings:</b> 0–127	
		Detune	Sets the amount of detuning between the Parts layered with the Unison function. By layering the detuned sounds, you can achieve a chorus-like effect. Settings: 0–127	

Function name			Description
Part A Part B Part C	Note Shift		Shifts the keyboard pitch in semitones. <b>Settings:</b> -24-+0-+24 <b>Default:</b> +0 <b>NOTE</b> The value is not transmitted as a MIDI message.
	Modulation	P.Mod Depth	Pitch Modulation cyclically changes the pitch. <i>P.Mod Depth</i> determines the pitch modulation depth. Settings: 0–127
		F.Mod Depth	Filter Modulation cyclically changes the cutoff frequency. <i>F.Mod Depth</i> determines the filter modulation depth. Settings: 0–127
		A.Mod Depth	Amplitude Modulation cyclically changes the volume. <i>A.Mod Depth</i> determines the amplitude modulation depth. Settings: 0–127
		Modulation Speed	Determines the modulation speed. This setting is applied commonly to <i>P.Mod</i> , <i>F.Mod</i> , and <i>A.Mod</i> . <b>Settings:</b> -64-+0-+63
	Touch Sensitivity	Depth	Determines the degree to which the resulting volume of the tone generator responds to your playing strength. The higher the value, the more the volume changes in response to your playing strength (as shown below). When Offset (below) is set to 64 Use the tone generator of the tone g
			Settings: 0–127

Function name				Description		
Part A Part B Part C	Touch Sensitivity	Offset		Determines the amount by which played velocities are adjusted for the actual resulting velocity effect. This lets you raise or lower all velocities based on this setting value—allowing you to automatically compensate for playing too strongly or too softly. However, because of automatic compensation, the value will be set to 1 when the result is smaller than 1, and the value will be set to 127 when the result is larger than 127.		
				When $Depth = 64$ and $Offset = 32$ Actual resulting velocity (affecting the tone generator) 0 $64$ $127$ $0$ $64$ $127$		
				Velocity with which you play a note When <i>Depth</i> = 64 and <i>Offset</i> = 96		
				0 64 127 Velocity with which you play a note Settings: 0–127		
Common	Transpose			Changes the pitch up or down in semitones. Settings: -12-+12 Default: +0 NOTE This setting does not affect MIDI output messages.		
	Layer/Split	olit Mode 		Selects the combination of Layer and Split. You can also use the [SPLIT] button for this setting. Settings: ABC, A/BC, AB/C, A/B/C Default: ABC		
				Sets the Split Point or the lowest note on the right keyboard range using a note name. When using the split mode <i>A/B/C</i> , two Split Points are needed. You can also use the [SPLIT] button to set the split point. Settings: C#-2–G8 Default: G2		
	Live Set EQ	Q Mode SW		C3 is MIDI note number 60. Turns the <i>Live Set EQ Mode on/off.</i> <b>Default:</b> Off		
	EQ Settings		15	Sets the EQ for the Live Set Sound.		
		High Gain		Sets the gain for the high band. Settings: -12 dB-0-+12 dB		
			High Frequency	Sets the frequency for the high band. Settings: 500 Hz–16 kHz		
Function n	ame			Description		
------------	-------------	----------------	---------------	---		
Common	Live Set EQ	EQ Settings	Mid Gain	Sets the gain for the mid-band. Settings: -12 dB-0-+12 dB		
			Mid Frequency	Sets the frequency for the mid-band. Settings: 100 Hz–10 kHz		
			Low Gain	Sets the gain for the low band. Settings: -12 dB-0-+12 dB		
			Low Frequency	Sets the frequency for the low band. Settings: 32 Hz–2.0 kHz		
	Tempo Delay	Time		When <i>Tempo Delay</i> is selected for <i>Delay</i> , this sets the delay time in note lengths to match the tempo.		
				Settings: 1/32 Tri.–1/2		
				Default: 1/4		
				<b>NOTE</b> The tempo should be set with the [TIME] knob or with <i>Tap Tempo</i> using the [ENTER] button.		

# Controllers

Function name			Description
Pitch Bend Range	Part A		Determines the pitch bend range in semitones.
	Part B		Settings: -24-+0-+24 Default: +2
	Part C		
Mod Wheel Assign			Determines the function to be assigned to the Modulation wheel. You can assign the Modulation wheel to Control Change numbers 1 to 119 or the USB Audio volume. Settings: Off, 1–119, USB Audio Volume Default: 1 (Modulation)
Foot Pedal 1 Foot Pedal 2	Assign		Determines the Control Change number to be assigned to a pedal connected to the FOOT PEDAL jack. You can assign each Foot Pedal to Control Change numbers 1 to 119, or to control the USB Audio volume.
			<b>Settings:</b> Off, 1–119, USB Audio Volume <b>Default:</b> Foot Pedal 1: 64 (Sustain) Foot Pedal 2: 11 (Expression)
	Limit Low		Determines the lowest value for the foot controller (FC7) connected to the FOOT PEDAL jack. Settings: 0–127 Default: 0
	Limit High		Determines the highest value for the foot controller (FC7) connected to the FOOT PEDAL jack. Settings: 0–127 Default: 127
Receive SW	Expression	Part A	Determines whether each Part receives (On) or ignores (Off) the corresponding
	Sustain	Part B Part C	MIDI messages received from external devices or the messages generated by operating the footswitch or foot controller.
	Sostenuto		Default: On
	Soft		

# Function

Function n	ame	Description
Part Color	Part A	Sets the LED color for the Part.
	Part B	Settings: Red, Orange, Yellow, Lime, Green, Spring, Cyan, Azure, Blue, Violet, Magenta, Rose
	Part C	
Audio Trigger	Switch	Switches the Audio Trigger function. Default: Off
	File	Selects the audio file to use with the Audio Trigger function.
	Volume	Sets the playback volume for the audio file. <b>Settings:</b> 0–127
	Key Assign	Selects the key for starting playback of the audio file. Settings: Lowest, Highest Default: Highest
	Play Mode	<ul> <li>Sets the playback mode for the audio file.</li> <li>One Shot: Plays back the audio file from the beginning every time the key is pressed.</li> <li>Play/Stop: Starts or stops the playback of the audio file each time the key is pressed. The playback starts from the beginning of the file.</li> <li>Play/Pause: Starts or pauses the playback of the audio file each time the key is pressed. The playback resumes from the paused place.</li> <li>Default: One Shot</li> </ul>
Keyboard	play from the external keybo NOTE	<ul> <li>a set up the CK with an external keyboard like a two-manual organ, or set up only a specific Part to ard.</li> <li>m an external keyboard, the Split setting shown on the Top screen changes from III to IIII to IIII.</li> <li><i>Ext+Int</i>: Internal tone generator plays sounds with both key-on signals received from an external MIDI device and performance on the CK's keyboard.</li> </ul>
	Part C	<ul> <li><i>ExtOnly</i>: Internal tone generator plays sounds only for key-on signals received from an external MIDI device. No sound is played when the keyboard on the CK is played.</li> <li><i>Off</i>: Internal tone generator does not play sounds for key-on signals received from an external MIDI device. Sound is played only when the keyboard on the CK is played.</li> <li><b>Default:</b> <i>Ext+Int</i></li> </ul>
		Connection example (for setting up the piano for Part A on the CK61 to be played only on the MX88) Part A = <i>ExtOnly</i> , Part B = <i>Off</i> , Part C = <i>Off</i>
		MIDI [OUT] terminal
		MIDI [IN] terminal

Function n	ame			Description		
Master Keyboard	each of whic	ch can contro	l a separate tone g	keyboard. It allows you to assign different areas of the keyboard to up to four zones, lenerator. For example, you can make a Live Set Sound combining Voices from both nerators, or a Live Set Sound composed entirely with Voices of external tone		
	Example f	or combini	ng the internal	tone generator and Zones 1 to 3		
	g I g	Internal tone enerator External tone enerator (Zone)		Zone 1 T $T$ $T$ $T$ $T$ $T$ $T$ $T$ $T$ $T$		
	Mode SW Advanced Zone SW			Switches the Master Keyboard mode. When On is selected, the Master Keyboard mode is enabled, and the indication MST appears on the Top screen. <b>Default:</b> Off		
				Changes the settings shown for <i>Master Keyboard</i> mode. When <i>On</i> is selected, the items with an asterisk (*) will be shown on the display. <b>Default:</b> <i>Off</i>		
	Zone Settings	Zone1 Zone2	Zone Switch	Determines whether to enable ( <i>On</i> ) or disable ( <i>Off</i> ) the zone. <b>Default:</b> Zone $1 = On$ , Zone $2-4 = Off$		
		Zone3 Zone4	Tx Channel	Determines the MIDI transmit channel for the zone. <b>Settings:</b> 1–16 <b>Default:</b> Zone 1 = 1, Zone 2 = 2, Zone 3 = 3, Zone 4 = 4		
			Octave Shift	Shifts the pitch of the zone in octaves. Settings: -3-+3 Default: +0		
			Transpose	Changes the pitch of the zone in semitones. Settings: -11-+11 Default: +0		
			Note Limit Low	Sets the lowest key in the zone. <b>Default:</b> C-2		
			Note Limit High	Sets the highest key in the zone. <b>Default:</b> G8		
			Bank MSB *	Determines the Bank Select MSB sent as a MIDI message to the external tone generator played by the zone. Default: 0		
			Bank LSB *	Determines the Bank Select LSB sent as a MIDI message to the external tone generator played by the zone. Default: 0		

Function n	ame			Description
Master Keyboard	Zone Settings	Zone1 Zone2 Zone3	Program Change *	Determines the Program Change Number sent as a MIDI message to the external tone generator played by the zone. Default: 1
		Zone4	Volume *	Determines the volume sent as a MIDI message to the external tone generator played by the zone. Default: 100
			Pan *	Determines the panning sent as a MIDI message to the external tone generator played by the zone. Default: C
			Tx SW Note *	Determines whether to transmit ( <i>On</i> ) or not transmit ( <i>Off</i> ) MIDI note messages to the external tone generator played by the zone. <b>Default:</b> <i>On</i>
			Tx SW Bank *	Determines whether to transmit ( <i>On</i> ) or not transmit ( <i>Off</i> ) MIDI Bank Select messages to the external tone generator played by the zone. <b>Default:</b> <i>On</i>
			Tx SW Program *	Determines whether to transmit ( <i>On</i> ) or not transmit ( <i>Off</i> ) MIDI Program Change messages to the external tone generator played by the zone. <b>Default:</b> <i>On</i>
			Tx SW Volume *	Determines whether to transmit ( <i>On</i> ) or not transmit ( <i>Off</i> ) MIDI volume messages to the external tone generator played by the zone. <b>Default:</b> <i>On</i>
			Tx SW Pan *	Determines whether to transmit ( <i>On</i> ) or not transmit ( <i>Off</i> ) MIDI Pan messages to the external tone generator played by the zone. <b>Default:</b> <i>On</i>
			Tx SW PB *	Determines whether to transmit ( <i>On</i> ) or not transmit ( <i>Off</i> ) MIDI Pitch Bend messages to the external tone generator played by the zone. <b>Default:</b> <i>On</i>
			Tx SW Mod *	Determines whether to transmit ( <i>On</i> ) or not transmit ( <i>Off</i> ) MIDI Modulation messages to the external tone generator played by the zone. <b>Default:</b> <i>On</i>
			Tx SW Foot Pedal 1 *	Determines whether to transmit ( <i>On</i> ) or not transmit ( <i>Off</i> ) MIDI messages for FOOT PEDAL [1] to the external tone generator played by the zone. <b>Default:</b> <i>On</i>
			Tx SW Foot Pedal 2 *	Determines whether to transmit ( <i>On</i> ) or not transmit ( <i>Off</i> ) MIDI messages for FOOT PEDAL [2] to the external tone generator played by the zone. <b>Default:</b> <i>On</i>

# A/D Input

Function name		Description
Volume		Adjusts the volume of the audio signal input from the A/D INPUT jack for the Live Set Sound. <b>NOTE</b> Adjust the overall volume with the A/D INPUT [GAIN] knob. <b>Settings:</b> 0–127
Input Effect 1 Input Effect 2	Туре	Selects the type of Effect applied to the audio. Settings: Thru, Effect type (see "Effect list" on page 43) Default: Thru
	Depth	Adjusts the depth of the Effect applied to the audio. <b>Settings:</b> 0–127
	Rate	Adjusts the rate of Effect applied to the audio. Settings: 0–127
Input EQ		Sets the 3-band EQ for the audio.
	High Gain	Sets the signal level for the high band. <b>Settings:</b> -12 dB-0-+12 dB
	High Frequency	Sets the frequency for the high band. <b>Settings:</b> 500 Hz–16 kHz
	Mid Gain	Sets the signal level for the mid-band. Settings: -12dB-0-+12dB
	Mid Frequency	Sets the frequency for the mid-band. <b>Settings:</b> 100 Hz–10 kHz
	Low Gain	Sets the signal level for the low band. Settings: -12 dB-0-+12 dB
	Low Frequency	Sets the frequency for the low band. <b>Settings:</b> 32 Hz–2.0 kHz
Noise Gate	Switch	Turns the noise gate for the audio on/off. Settings: Off, On Default: Off
	Threshold	Sets the threshold for the noise gate for the audio. Settings: -73 dB30 dB Default: -45 dB

## Name

Determines the name of a Live Set Sound. For details on editing Live Set Sound names, see Editing Live Set Sound names (page 26).

To store the edited Live Set Sound names, you'll need to use the Store operation (page 10).

# **Entire instrument (MENU button)**

From the [MENU] button, you can configure various parameters and functions that affect the entire instrument. The changes made here will be stored in the CK.

#### NOTICE

After the value has been changed, the setting will be saved when the operation goes back to the Top screen. Changes will not be saved if the CK has been turned off before the operation has gone back to the Top screen.

#### Operation

#### **1.** Press the [MENU] button.

## 2. Use the VALUE buttons and Encoder dial to select an item, and then press the [ENTER] button.

#### NOTE

You can also use the LIVE SET buttons [1] to [6] to select the item. The LIVE SET buttons [1] to [6] correspond to the items shown on the display in order from the top. The buttons light up when this feature is available.

#### 3. Use the VALUE buttons and Encoder dial to change the value, and then press the [ENTER] button.

When the setting has been changed, the operation goes back to the previous screen for selecting the menu item.

Function n	ame		Description
System	Master Tune		Determines the tuning for the entire instrument. Settings: 414.72 Hz–466.78 Hz Default: 440.00 Hz
	Master EQ		Sets the Master EQ.
		High Frequency	Sets the frequency for the high band. Settings: 500 Hz–16 kHz
		Mid Frequency	Sets the frequency for the mid-band. Settings: 100 Hz–10 kHz
		Low Frequency	Sets the frequency for the low band. Settings: 32 Hz–2.0 kHz
	Speaker	Speaker EQ	Selects the optimal sound quality of the built-in speakers for setting the CK on a keyboard stand where the bottom of the CK is open ( <i>Normal</i> ) or for setting on the table where the bottom of the CK is covered ( <i>Table</i> ).
			Settings: Normal, Table Default: Normal
		Speaker Mute	Selects to mute the built-in speakers automatically ( <i>Auto</i> ) or to mute the built-in speakers manually using the SPEAKERS switch ( <i>Manual</i> ) when the headphones are connected.
			Settings: Auto, Manual Default: Auto
	Auto Power O	ff	<ul> <li>Switches the Auto Power Off function setting.</li> <li>Disable: The CK is not automatically turned off.</li> <li>Enable: The CK is turned off automatically after being inactive for 15 minutes.</li> <li>Auto: The Auto Power Off function is disabled while the AC adaptor is being used, and enabled while batteries are being used.</li> <li>Default: Auto</li> </ul>
	Power On Sou	nd	Selects which Live Set Sound is automatically called up when the CK is turned on. <b>Default:</b> 1-1

# General

Function	name		Description
MIDI	MIDI Port	MIDI	<ul> <li>Determines whether to use the MIDI terminals for transmitting or receiving MIDI messages with the internal tone generator.</li> <li>On: Used as Port 1 (transmit or receive MIDI messages with the internal tone generator).</li> <li>Off: Used as Port 2 (USB-MIDI interface). In this case, MIDI messages received by the MIDI [IN] terminal are sent to USB Port 2 (MIDI OUT 2). MIDI messages received by the USB Port 2 (MIDI IN 2) are sent to the MIDI [OUT] terminal.</li> <li>Default: On</li> </ul>
		USB	Determines whether to use ( <i>On</i> ) the USB [TO HOST] terminal for transmission/ reception of MIDI messages, or not ( <i>Off</i> ). <b>Default:</b> <i>On</i>
	MIDI Channel	Transmit	Determines the MIDI transmit channel. When this is set to <i>Off</i> , MIDI messages are not transmitted. Settings: 1–16, <i>Off</i> Default: 1
		Receive	Determines the MIDI receive channel. When this is set to <i>All</i> , MIDI messages will be received over all channels. <b>Settings:</b> 1–16, <i>All</i> <b>Default:</b> 1
	MIDI Control		<ul> <li>Sets the MIDI control message to be sent out when using knobs and sliders on the front panel. For <i>MIDI Control</i>, the keyboard, Pitch Bend, Modulation, and pedals are excluded.</li> <li>On: MIDI messages are transmitted when the corresponding controllers such as knobs and sliders are used, allowing you to use a DAW and external MIDI devices to receive and record the operation information.</li> <li>Off: MIDI messages are not transmitted when the corresponding controllers are used.</li> <li>Default: Off</li> <li>NOTE</li> <li>When MIDI messages corresponding to knobs and sliders are received from the DAW, the settings for those knobs and sliders are changed.</li> <li>The MIDI message assignment for each knob or the slider is fixed. If you want to control the parameters in the DAW from the knobs and sliders on the CK, set up the computer to receive messages from the knobs and sliders. For details on MIDI message, see page 54.</li> </ul>
	Local Control	1	Determines whether <i>Local Control</i> is on or off. When this is set to <i>Off</i> , the CK's tone generator is disconnected from the keyboard, and no sound will be produced when the keyboard is played. However, regardless of the setting here, performance information from the CK's keyboard is transmitted as MIDI messages, and the CK's tone generator will continue to produce sound in response to the MIDI messages received from MIDI input, depending on the MIDI settings. <b>Default:</b> <i>On</i>
	Controller Re	set	Determines whether to keep ( <i>Hold</i> ) or initialize ( <i>Reset</i> ) the values of controllers (such as Modulation wheel and Foot Controller) when switching to a different Live Set Sound. When this is set to <i>Reset</i> , the controllers are reset to the default as shown below when switching to a different Live Set Sound. • Pitch Bend: Center • Modulation: Minimum • Expression: Maximum • Pedal Wah: Minimum <b>Default:</b> <i>Reset</i>

#### Advanced settings

Function n	name		Description	
MIDI	Advanced	Device Number	Determines the MIDI device number. The device number of the CK must match the device number of the external MIDI device when transmitting or receiving Bulk Dump, Parameter Changes, or other System Exclusive messages. Settings: 1–16, All, Off Default: All	
		Control Delay	Adjusts the transmission timing for MIDI control messages transmitted when switching to a different Live Set Sound. Adjust the setting when the application on your computer does not receive messages correctly. Settings: 0–1500 msec Default: 0 msec	
		Tx/Rx Pgm Change	Determines whether transmission/reception of Program Change messages between the CK and external MIDI devices is enabled ( <i>On</i> ) or disabled ( <i>Off</i> ). <b>Default:</b> <i>On</i>	
		Tx/Rx Bank Select	Determines whether transmission/reception of Bank Select messages between the CK and external MIDI devices is enabled ( <i>On</i> ) or disabled ( <i>Off</i> ). <b>Default:</b> <i>On</i>	
Audio	Output Gain		Adjusts the overall final output level of the CK. Settings: -24 dB-+0 dB-+24 dB Default: +0 dB	
	A/D Input Typ	De la la la la la la la la la la la la la	Selects a line input ( <i>Line</i> ) or a dynamic mic ( <i>Mic</i> ) for use as the input source from the A/D INPUT jack. <b>Default:</b> <i>Line</i>	
	USB Audio Vo	lume	Determines the volume of the USB Audio input. Settings: 0–127 Default: 64	
	USB Audio Lo	opback	Determines whether to mix the USB Audio input to the USB Audio Output ( <i>On</i> ) or not ( <i>Off</i> ). <b>Default:</b> <i>Off</i>	
Control	Panel Lock	Live Set	When the Panel Lock function is enabled, this allows you to set Panel Lock for specific	
Panel	Settings	Organ	<ul> <li>functions/operations on or off.</li> <li>Default: On</li> </ul>	
		Filter/EG	-	
		Drive/Effect	-	
		Delay/Reverb	-	
		Equalizer	-	
	Display	Value Indication	Determines whether to show ( <i>On</i> ) or not show ( <i>Off</i> ) the values on the display (LCD) when the values for the controllers of each Part are changed. <b>Default:</b> <i>On</i>	
		LCD Switch	Determines whether to show ( <i>On</i> ) or not show ( <i>Off</i> ) the Top screen on the display (LCD). The MENU and SETTINGS screens are always shown on the display regardless of the settings selected here. <b>Default:</b> <i>On</i>	
		LCD Contrast	Adjusts the contrast of the Display (LCD). Settings: -10-+10 Default: +0	

Function name			Description
Control Panel	Controller Mo	de	<ul> <li>Sets the conditions for a controller position to be reflected when the controllers' actual position and values called up with the LIVE SET [1] to [8] buttons do not match.</li> <li>Jump: The position of a controller is reflected immediately when that controller is moved.</li> <li>Catch: The current setting will be held until the controller's position matches (catches) values called up with the LIVE SET [1] to [8] buttons. Once the values have matched, the controller's position will be reflected.</li> <li>Default: Jump</li> </ul>
	Filter/EG Reset	t	Determines whether to reset ( <i>On</i> ) or maintain without resetting ( <i>Off</i> ) the EG and FILTER parameters when a Voice for the Part has been changed. <b>Default:</b> <i>On</i>
	Effect On/Off	Reset	Determines whether to reset ( <i>On</i> ) or maintain without resetting ( <i>Off</i> ) the Effect parameters when a Voice for the Part has been changed. <b>Default:</b> <i>On</i>
Keyboard	Touch Curve Fixed Velocity		<ul> <li>Determines how actual velocities will be generated according to the strength with which you play notes on the keyboard.</li> <li><i>Normal:</i> This linear "curve" produces one-to-one correspondence between the strength of your keyboard playing (velocity) and the actual sound change.</li> <li><i>Soft:</i> This curve provides an increased response, especially for lower velocities.</li> <li><i>Hard:</i> This curve provides an overall decreased response, especially for higher velocities, meaning that greater strength is needed to produce louder sound.</li> <li><i>Wide:</i> This curve accentuates your playing strength by producing lower velocities in response to softer playing and louder velocities in response to harder playing. As such, you can use this setting to expand your dynamic range.</li> <li><i>Fixed:</i> This setting produces the same amount of sound change, no matter what your playing strength. The velocity of the notes you play is fixed at the value set here.</li> <li>Default: <i>Normal</i></li> <li>When <i>Touch Curve</i> above is set to <i>Fixed</i>, this lets you set the desired fixed velocity, letting you keep the same, regardless of how hard or soft you play the keyboard.</li> <li>Settings: 1–127</li> <li>Default: 64</li> </ul>
Foot Pedal	Pedal 1 Pedal 2	Pedal Type Live Set Inc/Dec	Sets the type of pedal connected to the FOOT PEDAL [1] jack or the FOOT PEDAL [2] jack. Select FC3A (HalfOn) when using a Half Damper pedal.         Settings:       FC3A (HalfOn), FC3A (HalfOff), FC4A/FC5, FC7         Default:       Pedal 1: FC3A (HalfOn)         Pedal 2: FC7       Sets the type of operation for using the pedals connected to the FOOT PEDAL [1] jack or the FOOT PEDAL [2] jack.         •       Off: Operates the control change assigned to the Live Set Sound.
			<ul> <li><i>Live Set Inc</i>: Selects the next Live Set Sound when operating the pedal.</li> <li><i>Live Set Dec</i>: Select the previous Live Set Sound when operating the pedal.</li> <li><b>Default:</b> Off</li> </ul>

## Job

Function name			Description
Live Set Manager	Swap Copy		Swaps the currently selected Live Set Sound with another user-specified Live Set Sound.
			Copies the currently selected Live Set Sound to another user-specified Live Set Sound.
	Initialize		Resets all parameters of the currently selected Live Set Sound to their defaults.
Part/Effect	Сору	Part A	Copies the Part A settings of the Live Set Sound.
Manager		Part B	Copies the Part B settings of the Live Set Sound.
		Part C	Copies the Part C settings of the Live Set Sound.
		Delay	Copies the Delay settings of the Live Set Sound.
		Reverb	Copies the Reverb settings of the Live Set Sound.
	Paste	Part A	Pastes the copied settings. The paste function cannot be used when nothing has been
		Part B	— copied. —
		Part C	
		Delay	
		Reverb	
	Swap Part	Part A ↔ B	Swaps the Part A settings and the Part B settings of the Live Set Sound.
		Part B ↔ C	Swaps the Part B settings and the Part C settings of the Live Set Sound.
		Part C ↔ A	Swaps the Part C settings and the Part A settings of the Live Set Sound.
	Swap	Part A	Swaps the EFFECT 1 settings and the EFFECT 2 settings of a specified Part in the Live Se
	EFFECT 1/2	Part B	— Sound.
		Part C	
Edit Recall			Recalls the last edited but not yet stored Live Set Sound settings. If, while editing a Live Set Sound, you select a different Live Set Sound and then return to the one currently being edited, the latest stored version will be called up instead of the current one. If this occurs, use this function to restore the Live Set Sound setting you are currently editing
			<i>NOTICE</i> The latest edited Live Set Sound will be lost when the CK is turned off.
Menu Initialize			Resets the settings of MENU screens to the default values.
Factory Reset			Restores the CK including all Live Set Sounds to its factory default.

## File

Function name		Description
Back Up File	Save	Saves all the Live Set settings and other settings for the entire instrument stored in the CK to a USB flash drive as a backup file (with the extension .Y1A).
	Load (*)	Loads the settings to the CK from a backup file saved on a USB flash drive.
Live Set All File	Save	Saves all the Live Set settings stored in the CK to a USB flash drive as a <i>Live Set All File</i> (with the extension .Y1L).
	Load (*)	Loads the settings to the CK from a Live Set All File saved on a USB flash drive.
Live Set Page File	Save	Saves the currently selected Live Set Page stored in the CK to a USB flash drive as a <i>Live Set Page File</i> (with the extension .Y1P).
	Load (*)	Loads the settings to the CK from a <i>Live Set Page File</i> saved on a USB flash drive.
Live Set Sound File	Save	Saves the currently selected Live Set Sound stored in the CK to a USB flash drive as a <i>Live Set Sound File</i> (with the extension .Y1S).
	Load	Loads the settings to the CK from a Live Set Sound File saved on a USB flash drive.
File Utility	Rename	Changes the name of a file in a USB flash drive.
	Delete	Deletes a file in a USB flash drive.
	Format	Formats (initializes) a USB flash drive. Formatting is required when using a new USB flash drive.
		<b>NOTICE</b> When a USB flash drive is formatted, all of its content will be deleted. Make sure before formatting that the USB flash drive contains no irreplaceable data.

\* You can load a single Live Set Sound you choose from a file containing multiple Live Set Sounds such as *Backup file, Live Set All file*, and *Live Set Page file*.

# Bluetooth

Function name	Description
Switch	Switches the <i>Bluetooth</i> function on/off. Settings: Off, On
	Default: Off
Volume <sup>*1</sup>	Adjusts the <i>Bluetooth</i> audio volume.
	Settings: 0–127
	Default: 64
Pairing *1	Pairs with the <i>Bluetooth</i> -equipped device.

\*1 When the Switch is set to Off, Volume and Pairing will be hidden.

# Version Info

Shows the version of the CK's firmware.

# **Shortcut operations**

By using the buttons or knob, while holding down the [ENTER] button, you can use the shortcut operations to access the functions in the Live Set Sound SETTINGS.

Locations	Operations	Descriptions				
Transpose &	[ENTER] button + TRANSPOSE [–] button	Transposes the pitch of the keyboard up or down in semitones.				
Octave	[ENTER] button + TRANSPOSE [+] button	<ul> <li>This operation is the same as Sound Transpose.</li> <li>NOTE</li> <li>The value is not transmitted as a MIDI message.</li> </ul>				
	TRANSPOSE buttons [–] + [+] (together)	Keyboard Transpose is set to "0."				
	Part select button ([A]–[C]) + OCTAVE [–] button	Shifts the octave range of the specified Part up or down. This operation is the same as setting the Note Shift to "+12" or "-12." The Not				
	Part select button ([A]–[C]) + OCTAVE [+] button	<ul> <li>Shift range is from -12 to +12.</li> <li>NOTE</li> <li>The value is not transmitted as a MIDI message.</li> </ul>				
	OCTAVE buttons [-] + [+]	Keyboard Octave is set to "0."				
Organ	[ENTER] button + VIBRATO/CHORUS [TYPE] button	Switches the Vibrato/Chorus type in reverse order. This is useful when you want to return to the previous type.				
Live Set	Pressing two or three Part select buttons ([A]–[C]) at once	Selects multiple Parts at once. Useful for selecting the same settings for Fil EG, and Insertion Effects.				
	Holding down two of the Part select buttons ([A]–[C]) at once	Swaps the settings of the selected Parts. This operation is the same as [MENU] button $\rightarrow$ Job $\rightarrow$ Part/Effect Manager $\rightarrow$ Swap Part.				
	[ENTER] button + [SETTINGS] button	Resets the Live Set Sound currently being edited to its default state. This operation does not overwrite the stored Live Set Sound. This operation is useful when you want to reset all values to start over.				
		<b>NOTE</b> To reset both the Live Set Sound currently being edited as well as the stored Live Set Sound, use the [MENU] button $\rightarrow$ Job $\rightarrow$ Live Set Manager $\rightarrow$ Initialize (page 40).				
	[ENTER] button + [MENU] button	Determines whether the panel lock function is enabled (On) or disabled (Off).				
	[ENTER] button + MONO [TYPE] button	Opens the Portamento Time setting screen.				
	[ENTER] button + UNISON [TYPE] button	Opens the Unison Detune setting screen.				
	PAGE buttons [<] + [>]	Shows the Live Set View. To close the Live Set View, press the [EXIT] button.				
Effect	[ENTER] button + EFFECT1–EFFECT2 select button	Swaps the settings of EFFECT 1 and EFFECT 2 in the selected Part. This operation is useful when you want to change the order in which the two Insertion Effects are applied. This operation is the same as the [MENU] button $\rightarrow$ Job $\rightarrow$ Part/Effect Manager $\rightarrow$ Swap EFFECT 1/2.				
	[ENTER] button + Effect [TYPE] knob	Moves to the beginning of the next or previous category. This operation is useful when you want to quickly switch to the desired type. For more information on Insertion Effect Types, see the "Effect list" (page 43).				

# When using Tempo Delay for DELAY

Operations		Descriptions
[ENTER] butto	on	Use the [ENTER] button as a Tap button. Press the button at least three times to set the tempo.
[ENTER] butto	n + DELAY [TIME] knob	Changes the Tempo Delay Time.

# **Effect list**

## Effect diagram



Category	Туре	Description	Stereo/ Mono
Chorus	G Chorus	Chorus effect that produces a deep sound with complex modulation. Turn the [DEPTH] knob to adjust the depth, and the [RATE] knob to adjust the speed.	Stereo
	SPX Chorus	Chorus effect that uses a three-phase LFO to create a richer and warmer sound, with a wider stereo spread. Turn the [DEPTH] knob to adjust the depth, and the [RATE] knob to adjust the speed.	Stereo
	Symphonic	Chorus effect that features multiple sound modulations to give a greater sense of spaciousness. Turn the [DEPTH] knob to adjust the depth, and the [RATE] knob to adjust the speed.	Stereo
	816 Chorus	Chorus effect that simulates the detuned FM chorus of the TX816. Turn the [DEPTH] knob to adjust the modulation depth, and the [RATE] knob to adjust the speed.	Stereo
Flanger	VCM Flanger	Vintage flanger effect featuring a warm analog sound. Turn the [DEPTH] knob to adjust the depth and feedback level, and the [RATE] knob to adjust the speed.	Stereo
	Cross FB Flanger	Vintage flanger effect featuring a complex sound by cross feedback. Turn the [DEPTH] knob to adjust the depth and feedback level, and the [RATE] knob to adjust the speed.	Stereo
Phaser	VCM Stereo Phaser	Vintage phaser effect featuring a warm analog sound. Turn the [DEPTH] knob to adjust the depth and feedback level, and the [RATE] knob to adjust the speed.	Stereo
	Small Phaser	Vintage phaser effect that features a smooth and unique sweeping effect. Turn the [DEPTH] knob to switch the modulation type—which differs depending on whether the knob is set to the left or the right—and turn the [RATE] knob to adjust the speed.	Mono
	Max90	Classic vintage phaser effect. Turn the [DEPTH] knob to switch the feedback level type—which differs depending on whether the knob is set to the left or the right—and turn the [RATE] knob to adjust the speed.	Mono
	Dual Phaser	Vintage phaser effect that features two phasers with different characteristics. Turn the [DEPTH] knob to adjust the speed of the phaser 1, and the [RATE] knob to adjust the speed of the phaser 2.	Mono
Trm/Rtr	Tremolo	A modulation effect that changes the volume cyclically. Turn the [DEPTH] knob to adjust the depth, and the [RATE] knob to adjust the speed.	Stereo
	Auto Pan	A modulation effect that moves the sound in the stereo field cyclically left and right. Turn the [DEPTH] knob to adjust the width for the stereo field, and the [RATE] knob to adjust the speed.	Stereo
	Simple Rotary	Simple rotary speaker effect. Turn the [DEPTH] knob to adjust the volume and distortion level, and the [RATE] knob to adjust the rotation speed.	Mono

Category	Туре	Description	Stereo/ Mono
Dist	British Combo	Warm distortion effect (overdrive). Turn the [DEPTH] knob to adjust the distortion level, and the [RATE] knob to adjust the brilliance (brightness of the sound).	Mono
	British Lead	Hard rock type distortion effect. Turn the [DEPTH] knob to adjust the distortion level, and the [RATE] knob to adjust the treble (attack for the high band).	Mono
	Small Stereo	Stereo distortion effect. Turn the [DEPTH] knob to adjust the distortion level, and the [RATE] knob to adjust the presence (clearness of sound).	Stereo
Comp/EQ	Compressor	Stereo compressor. Turn the [DEPTH] knob to adjust the threshold, and the [RATE] knob to adjust the output volume.	Stereo
	Tone Control	Shelving equalizer. Use the [DEPTH] knob to adjust the low band, and the [RATE] knob to adjust the high band.	Stereo
	1 Band EQ Narrow	Peaking equalizer with narrow Q (bandwidth). Use the [DEPTH] knob to adjust the gain, and the [RATE] knob to adjust the center frequency.	Stereo
	1 Band EQ Wide	Peaking equalizer with wide Q (bandwidth). Use the [DEPTH] knob to adjust the gain, and the [RATE] knob to adjust the center frequency.	Stereo
Wah	Auto Wah	Wah modulation effect that changes cyclically. Turn the [DEPTH] knob to adjust the resonance level, and the [RATE] knob to adjust the speed.	Stereo
	Touch Wah	Wah effect that responds to volume changes by keyboard touch. Turn the [DEPTH] knob to adjust the sensitivity, and the [RATE] knob to adjust the resonance level.	Stereo
	Pedal Wah	Wah effect that is pedal-controlled. Turn the [DEPTH] knob to adjust the distortion level, and the [RATE] knob to adjust the resonance level. The <i>pedal wah</i> effect can be controlled with a pedal if <i>Foot Pedal Assign</i> is set to 4 (Pedal Wah).	Stereo
Delay	Digital Delay	Clean digital delay. Turn the [DEPTH] knob to adjust the depth and feedback level, and the [RATE] knob to adjust the delay time.	Stereo
	Analog Delay	Delay featuring a warm analog sound. Turn the [DEPTH] knob to adjust the feedback level, and the [RATE] knob to adjust the delay time.	Stereo
	Cross Delay	Delay that alternates between the left and right. Turn the [DEPTH] knob to adjust the depth and feedback level, and the [RATE] knob to adjust the delay time.	Stereo
Reverb	Hall Reverb	Simulates the reverberation of a hall. Turn the [DEPTH] knob to adjust the depth, and the [RATE] knob to adjust the reverb time (reverberation length).	Stereo
	Room Reverb	Simulates the reverberation of a room. Turn the [DEPTH] knob to adjust the depth, and the [RATE] knob to adjust the reverb time (reverberation length).	Stereo
	Reverse Reverb	The effect that simulates reverse playback Gated Reverb. Turn the [DEPTH] knob to adjust the depth, and the [RATE] knob to adjust the reverb time (reverberation length).	Stereo
Others	Ring Modulator	An effect that changes the sound in metallic and wildly distorting synth ways. Turn the [DEPTH] knob to adjust the depth, and the [RATE] knob to adjust the frequency.	Stereo
	Slicer	An effect that slices the input sound into rhythmically interrupted segments. Turn the [DEPTH] knob to adjust the gate time (length for the sliced note), and the [RATE] knob to adjust the fineness of slicing.	Stereo
	LP Filter	Filter that cuts sounds at frequencies higher than the cutoff frequency. Turn the [DEPTH] knob to adjust the cutoff frequency, and the [RATE] knob to adjust the resonance.	Stereo
	HP Filter	Filter that cuts sounds at frequencies lower than the cutoff frequency. Turn the [DEPTH] knob to adjust the cutoff frequency, and the [RATE] knob to adjust the resonance.	Stereo

Category	Туре	Description	Stereo/ Mono
Others	Lo-Fi	An effect that re-samples and degrades the input sound.Turn the [DEPTH] knob to adjust the coarseness of the sound, and the [RATE] knob to adjust the sampling frequency. Turn each knob clockwise to make them sound more degraded and less clear.	Mono
	Damper Resonance	An effect that reproduces the sound produced by open strings of a piano while the damper pedal is pressed. Turn the [DEPTH] knob to adjust the depth, and the [RATE] knob to adjust the damper openness.	Stereo
	Harmonic Enhancer	An effect that adds harmonic overtones to the input sound to makes the sound stand out. Turn the [DEPTH] knob to adjust the cutoff frequency of the high-pass filter, and the [RATE] knob to adjust the effect level.	Stereo

# **Using with External Devices**

By connecting external devices, you can take advantage of various convenient and powerful features of the CK.

For example, you can:

- Play the CK along with the songs played on your smartphone or a portable music player.
- Use smart device apps to manage the Live Set Sounds, create videos, and post videos on social media.
- Play the CK using sounds on external sound modules or other synthesizers.
- Play the CK sounds from an external keyboard.

# Precautions when using the USB [TO HOST] terminal

When connecting the computer to the USB [TO HOST] terminal, make sure to observe the following points to avoid freezing the computer/ instrument and corrupting or losing the edited settings in SETTINGS.

#### NOTICE

- Use an AB type USB cable of less than 3 meters. USB 3.0 cables cannot be used.
- Perform the following before turning the power to the instrument on/off or plugging/unplugging the USB cable to/from the USB [TO HOST] terminal.
  - Quit any open application software on the computer.
  - Make sure that MIDI data is not being transmitted from the instrument. (MIDI data is transmitted when the notes on the keyboard are played.)
- While the computer is connected to the instrument, you should wait for six seconds or more between these operations: (1) when turning the power of the instrument off then on again, or (2) when alternately connecting/disconnecting the USB cable.

If the computer or the instrument freezes, restart the application software or the computer OS or turn the power to the instrument off then on again.

# **Using Smart Devices**

There are two ways of connecting a smart device: wireless connection via Bluetooth Audio and wired connection using a USB cable.

For more information on smart device applications that you can use with the CK, refer to the following website.

https://www.yamaha.com/kbdapps/

#### NOTICE

Be sure to place your smart device on a stable surface to prevent it from falling over and being damaged.

#### NOTE

To eliminate the risk of interference due to noise by your smart device when used in combination with the CK, turn on the Airplane Mode and then turn on Wi-Fi.

# **Connecting via Bluetooth audio**

## Bluetooth capability

Depending on the country in which you purchased the product, the CK may not have Bluetooth capability.

By using the Bluetooth audio function, you can connect a Bluetooth-equipped device such as a smartphone and portable audio player wirelessly to the CK and use the speakers on the CK to play back the audio from the Bluetooth device.

#### NOTE

- Bluetooth headphones or speakers cannot be connected.
- There is no Bluetooth MIDI capability on the CK.

# Pairing with a Bluetooth-equipped device

"Pairing" means registering Bluetooth-equipped smart devices on the CK and establish mutual recognition for wireless communication between the two. Once the device is paired with the CK, it is not necessary to pair the two again (unless you've disabled pairing.)

# **1.** Select the setting from the [MENU] button $\rightarrow$ Bluetooth $\rightarrow$ Switch to On $\rightarrow$ press the [ENTER] button $\rightarrow$ Pairling.

The CK will be paired, and the "*Bluetooth pairing...*" message will appear on the display.

To cancel the pairing, press the [EXIT] button.

#### 2. Turn the Bluetooth setting ON on the Bluetooth-equipped device and select CK61 or CK88 from the list.

- Make sure to complete the settings on the smart device within a minute. After that, the pairing mode ends automatically.
- If you are required to enter a passkey, enter the numerals "0000."

When the pairing is completed, the **B** (Bluetooth) mark appears on the top screen.

Use the Bluetooth-equipped device to adjust the volume of the sound input via Bluetooth. To adjust

the volume balance between the sound input via Bluetooth and your performance on the CK, you can also use the [MENU] button  $\rightarrow$  Bluetooth  $\rightarrow$  Volume.

3. Playback audio on the Bluetooth-equipped device to confirm that the built-in speakers or the headphones connected to the CK can output the audio sound.

When you turn on the CK the next time, the last connected smart device will be connected to the CK automatically if the Bluetooth function of the smart device and the CK are set to on. If it is not connected automatically, select the model name of the CK from the connection list on the smart device.

## Switching the Bluetooth off

Select the setting from the [MENU] button  $\rightarrow$  Bluetooth  $\rightarrow$  Switch to Off.

# Connecting using the USB [TO HOST] terminal

For more information on how to connect a device to the USB [TO HOST] terminal, refer to the "Smart Device Connection Manual."

### Smart Device Connection Manual

Access the website below and then open "Manual Library." Select your language, and then enter "smart device" in the "Model Name or Keyword" field and finally click "Search." https://download.yamaha.com/

For setting the sound input from the USB audio to output to the computer or smart device connected to the USB [TO HOST] jack of the CK, set from the [MENU] button  $\rightarrow$  General  $\rightarrow$  Audio  $\rightarrow$  USB Audio Loopback (page 38).

# **Connecting to a computer**

By connecting the CK to your computer, you can expand your musical possibilities by using music production software or DAWs. Here are some of the creative options you can explore.

- Recording your performance to a DAW
- Playing the software synthesizer from the CK
- Playing the internal sound generator of the CK from a DAW

A USB cable and the Yamaha Steinberg USB Driver are necessary to connect the CK to the computer. Follow the instructions below to make the connection. Before connecting the USB [TO HOST] terminal to a computer, be sure to read "Precautions when using the USB [TO HOST] terminal" on page 46.

## Download the latest Yamaha Steinberg USB Driver from the URL below. https://download.yamaha.com/

#### NOTE

- For more information on the system requirements for the Yamaha Steinberg USB Driver, refer to the URL above.
- The Yamaha Steinberg USB Driver may be revised and updated without prior notice. For details and the latest information, refer to the URL above.
- **2.** Install the Yamaha Steinberg USB Driver on your computer.

Refer to the Installation Guide included in the downloaded file.

3. Change the settings from the [MENU] button → General → MIDI → MIDI Port → USB to On to set the CK to send and receive MIDI through the USB [TO HOST] terminal.

# Controlling a synthesizer or tone generator module from the CK

You can play the sounds of an external MIDI tone generator by playing on the CK's keyboard. By setting the [MENU] button  $\rightarrow$  General  $\rightarrow$  MIDI  $\rightarrow$ MIDI Control to On (page 37), you can use the ORGAN FOOTAGE sliders and knobs for Filter and EG, for example, for controlling an external device.



# Controlling the CK from an external keyboard

By combining with another keyboard, you can have the two connected instruments function like a twomanual organ. For example, if you wish to play both the CK and the other instrument by setting the [SETTINGS] button  $\rightarrow$  Function  $\rightarrow$  External Keyboard (page 32) to Ext+Int, or to play only the other instrument by setting to ExtOnly.



External keyboard

# Setting the MIDI transmit and receive channels

To control a device using MIDI, you must set the transmit channel on the controlling device and the receive channel on the controlled device to match. You can change the transmit channel (Tx) and receive channel (Rx) on the CK from the [MENU] button  $\rightarrow$  General  $\rightarrow$  MIDI  $\rightarrow$  MIDI Channel.

### NOTE

For details on setting the transmit channel of an external MIDI keyboard or the receive channel of an external MIDI tone generator, refer to the owner's manual of that device.

# Disabling the internal tone generator sound when the built-in keyboard is played

If you want only the external tone generator connected to the MIDI [OUT] terminal or USB [TO HOST] terminal to produce sound when the keyboard of the CK is played, you can lower the CK's volume, or turn off all Parts, or set the value for *Local Control* under the [MENU] button  $\rightarrow$  *General*  $\rightarrow$  *MIDI*  $\rightarrow$  *Local Control* to *Off* (page 37). The last method is especially convenient when recording with a DAW.

# Setting how the MIDI terminals are used (MIDI Port settings)

The CK provides two MIDI ports, each with different purposes.

- Port 1: For communication between the CK and a computer.
- Port 2: For communication between a computer and an external MIDI device by using the CK.

You can set whether to use the MIDI terminals as Port 1 or Port 2, from the [MENU] button  $\rightarrow$  General  $\rightarrow$  MIDI  $\rightarrow$  MIDI Port  $\rightarrow$  MIDI (page 37). Initially, it is set to Port 1.

## Port 1

Use this Port to control the tone generator of the CK from an external device, or to control an external tone generator from the CK.

Set the value under the [MENU] button  $\rightarrow$  General  $\rightarrow$  MIDI  $\rightarrow$  MIDI Port  $\rightarrow$  MIDI to On.

# Port 2

Use this port when you want to connect an external MIDI device to a computer via the CK. Set the values under the [MENU] button  $\rightarrow$  General  $\rightarrow$  MIDI  $\rightarrow$  MIDI Port as follows.

- MIDI: Off
- USB: On

## Example



# Data List

# Live Set Sound List

## CK88

Page	No.	Name	Split Point	Part	Voice Name	MSB	LSB	PC
1	1	CFX Grand	G2	Α	CFX Stereo	63	0	1
				В	-			
				С	-			
1	2	Mono U1	G2	Α	U1	63	0	2
				В	-			
				С	-			
1	3	CF3 Pad	G2	Α	Live CF3	63	0	3
				В	Back Pad			
				C	-		-	
1	4	Acoustic Split	G2	A	Acoustic Bass	63	0	4
				В	U1			
	-			C	H			-
1	5	Panning Tines	G2	A	78Rd	63	0	5
				B	-	_		
	0	W. D. I.		C	-	00	0	0
1	6	Warm Reeds	G2	A	Wr Warm	63	0	6
				B	-			
-	7	lana Calit	00	C	-	<u></u>	0	7
1	7	Jazz Split	C3	A	Н	63	0	7
				B	H _	_		
-	0	Ouchester	00	-		<u></u>	0	0
1	8	Orchestra	G2	AB	Orchestra 2 Concert Str	63	0	8
				B C	Horn Section			
2	1	S700 Grand	G2	A	S700	63	1	1
2	1	5700 Granu	62	B	-	03		1
				C	_	_		
2	2	Rock Piano	G2	A	– Live CF3	63	1	2
2	2	NUCK FIAIIU	92	B		03		2
				C	_			
2	3	80's Layer	G2	A	CFX St Bright	63	1	3
2	5	00 S Layer	U2	B	73Rd Studio	03		5
				C	-	_		
2	4	DX/Minilead	G2	A	DX 7 II	63	1	4
-		Dielinia		B	Classic Mini			
				C	-	_		
2	5	78Rd Chorus	G2	A	78Rd	63	1	5
-	-			В	-			-
				C	-	_		
2	6	Funky Land Clav	G2	A	Clavi S	63	1	6
		,		В	-	-		
				C	-	-		
2	7	Rock Rotary	G2	A	Н	63	1	7
				В	-	1		
				С	-	1		
2	8	Brass Section	G2	A	BrassSection5	63	1	8
				В	-	1		
				С	-	-		

Page	No.	Name	Split Point	Part	Voice Name	MSB	LSB	PC
3	1	CP80 Dirty Funk	G2	Α	CP80 1	63	2	1
				В	-	1		
				С	-	1		
3	2	Phasing 73	G2	Α	73Rd Studio	63	2	2
				В	-	1		
				С	-	1		
3	3	Fusion Layer	G2	Α	73Rd Studio	63	2	3
				В	OB Brass 1			
				С	-			
3	4	EDM Pluck Split	G2	Α	Synth Bass 2	63	2	4
				В	Popcorn			
				С	Sky Walk			
3	5	Amped Tines	G2	Α	73Rd Studio	63	2	5
				В	-	1		
				С	-	1		
3	6	The Red Organ	G2	Α	V	63	2	6
				В	-	1		
				С	-			
3	7	JP Strings	G2	Α	JP Strings	63	2	7
				В	-			
				С	-	1		
3	8	Soft Synth Lead	G2	Α	Wire Lead	63	2	8
				В	-	1		
				С	-	1		

## CK61

Page	No.	Name	Split Point	Part	Voice Name	MSB	LSB	PC
1	1	CFX Grand	G2	Α	CFX Stereo	63	0	1
				В	-			
1	2	Panning Tines	G2	C	- 78Rd	63	0	2
	-	T unning Thios	GL.	B	-	00	Ŭ	2
				С	-			
1	3	Warm Reeds	G2	A	Wr Warm	63	0	3
				B	-			
1	4	80's Layer	G2	A	CFX St Bright	63	0	4
				В	73Rd Studio			
_	-	E de la colo	0.0	C	-	00	_	-
1	5	Funky Land Clav	G2	AB	Clavi S –	63	0	5
				C	-			
1	6	Brass Section	G2	Α	BrassSection5	63	0	6
				B	-	_		
1	7	Jazz Split	C3	C	- H	63	0	7
	,	ouzz opin	00	B	н	00	Ŭ	
				С	-			
1	8	Soft Synth Lead	G2	A	Wire Lead	63	0	8
				B C	-	-		
2	1	S700 Grand	G2	A		63	1	1
				В	-			
				С	-			
2	2	78Rd Chorus	G2	A	78Rd -	63	1	2
				B	_	-		
2	3	CP80 Dirty Funk	G2	A	CP80 1	63	1	3
				В	-			
		050 0		C	-			
2	4	CF3 Pad	G2	AB	Live CF3 Back Pad	63	1	4
				C	-	-		
2	5	Amped Tines	G2	Α	73Rd Studio	63	1	5
				В	-			
2	6	JP Strings	G2	CA	– JP Strings	63	1	6
2	0	JF Stilligs	92	B	–	03		U
				С	-			
2	7	Rock Rotary	G2	Α	Н	63	1	7
				B C	-	-		
2	8	Orchestra	G2	A	– Orchestra 2	63	1	8
				В	Concert Str			
				С	Horn Section			
3	1	Mono U1	G2	A B	U1 -	63	2	1
				B C	-	1		
3	2	Rock Piano	G2	A	Live CF3	63	2	2
				В	-	]		
0	0	Phasing 70	00	C	- 72Dd Studio	60	0	0
3	3	Phasing 73	G2	A B	73Rd Studio	63	2	3
				C	-	1		
3	4	DX/Minilead	G2	Α	DX 7 II	63	2	4
				B	Classic Mini	_		
3	5	Acoustic Split	G2	C A	- Acoustic Bass	63	2	5
5	5	ouolio opiit	92	B	U1	55	-	5
L			L	С	н	1		
3	6	Fusion Layer	G2	A	73Rd Studio	63	2	6
				B	OB Brass 1	4		
3	7	The Red Organ	G2	A	- V	63	2	7
				В	-		-	
				С	-	1		
3	8	EDM Pluck Split	G2	A	Synth Bass 2	63	2	8
				B C	Popcorn Sky Walk	-		
		1		U U	Sity Hain	1	I	

## CK88 CK61

Page	No.	Name	Split Point	Part	Voice Name	MSB	LSB	PC
4	1	Live CF3 Grand	G2	A	Live CF3	63	3	1
				В	-	1		
	•	B. H. H. S. H.	00	C	-		0	
4	2	Pretty Upright	G2	A B	U1 -	63	3	2
				C	-	-		
4	3	Honky Dogs	G2	А	S700	63	3	3
				B	U1	-		
4	4	House Piano	G2	CA	– Digi Piano 2	63	3	4
		Thouse Filano	GE .	B	-		Ū	
				С	-			
4	5	Bubble Rds	C4	A	78Rd	63	3	5
				B	-	-		
4	6	Bright Reeds	G2	A	Wr Bright	63	3	6
				В	-			
	7	01	00	C	-	00		-
4	7	Clavi S	G2	A B	Clavi S –	63	3	7
				C	-	-		
4	8	Trippy DX	G2	А	DX Legend	63	3	8
				В	-	]		
-	1	Ormaine Drewber	00	C	- H	<u> </u>	4	1
5	1	Comping Drawbar	G2	A B	H -	63	4	I
				C	-	-		
5	2	Jazz Swish	G2	Α	Н	63	4	2
				В	-			
5	3	Coopel Lavore	G2	CA	- H	63	4	3
5	3	Gospel Layers	62	B	Н	03	4	3
				C	-	1		
5	4	Lead Organ	G2	Α	Н	63	4	4
				В	-			
5	5	British Organ	G2	CA	- V	63	4	5
5	5	Diffish Organ	62	B	-	03	4	5
				C	-	1		
5	6	Aged Tone Organ	G2	Α	A	63	4	6
				B	A	4		
5	7	Concert Organ	G2	CA	– Concert Organ	63	4	7
Ŭ	,	oonoort organ	UL.	B	Church Organ1			,
				С	Church Organ1			
5	8	Big Pipes	G2	Α	Organo Pleno	63	4	8
				B	Concert Organ	-		
6	1	Echo Guitar	G2	A	– Nylon Guitar1	63	5	1
-				В	-		-	-
				С	-			
6	2	Acoustic Steel	G2	A	Steel Gt 2	63	5	2
				B	-	-		
6	3	Clean El-Gtr	G2	A	Clean Gt 1	63	5	3
				В	-	1		
				C	-		_	
6	4	Overdrive Gtr	G2	A B	Clean Gt 3	63	5	4
				В С	-	-		
6	5	Slap Bass	G2	A	Slap Bass	63	5	5
				В	-	]		
	~	101 0-1	00	C	-	00	-	_
6	6	101 Bass	G2	A B	Synth Bass 3 Fundamental	63	5	6
				В С	-	-		
6	7	Mini Bass	G2	A	Unison Bass	63	5	7
				В	-	]		
	•		00	C	-		-	
6	8	Click Syn Bass	G2	A B	Click SynBass –	63	5	8
				C	-	1		
		1	I		1	1	I	

Page	No.	Name	Split Point	Part	Voice Name	MSB	LSB	PC
7	1	Quartet Strings	G2	A B	Quartet –	63	6	1
				C	-	-		
7	2	Ancient Sampler	G2	Α	Tron Strings	63	6	2
				В	-			
7	3	On top	G2	CA	– Orchestra 1	63	6	3
1	5		uz	B	Oboe	00	0	5
				С	French Horn	-		
7	4	2310 Orchestra	G2	Α	Alto Flute	63	6	4
				B C	Orchestra 2 Section Str 2	_		
7	5	Party Brass	G2	A	BrassSection2	63	6	5
	-			В	Forte Brass		-	-
				С	BrassSection3			
7	6	Sax Section	G2	A	Sax Section 2	63	6	6
				B C	-	-		
7	7	Flute	G2	A	Flute 1	63	6	7
				В	-		-	
				С	-			
7	8	Epic Calliope	G2	A	Calliope Ld 1	63	6	8
				B C	-	-		
8	1	Comp and Solo	G2	A	73Rd Studio	63	7	1
				В	Dynmic Mini			
				С	-			
8	2	Nu Saw Lead	C3	A	-	63	7	2
				B C	Saw Lead 1 –	_		
8	3	Arena Lead	G2	A	– Dancy Hook	63	7	3
U	U	riiona zoaa	02	B	-			Ū
				С	-			
8	4	Vx Based PolyLd	C4	Α	-	63	7	4
				B C	- V	_		
8	5	Analog Pad	G2	A	V Soft Pad 2	63	7	5
	-			В	-			-
				С	-			
8	6	Zen Pad	C4	A	Atmosphere	63	7	6
				B	ZEN -	_		
8	7	Magic Bells Pad	G2	A	Bell Pad 1	63	7	7
				В	Slow Choir			
				С	Glocken 1			
8	8	Slow Choir	G2	A	Slow Choir	63	7	8
				B	-	-		
9	1	OB Brass	G2	A	OB Brass 1	63	8	1
				В	-			
			-	С	-			
9	2	Synth F.Horns	G2	A	Analog Brass1	63	8	2
				B	-	-		
9	3	Jumping Synths	G2	A	Jump Brass	63	8	3
				В	-			
		-		С	-			
9	4	Synth Strings	G2	A	Analog Str	63	8	4
				B C	Syn Strings 1 –	-		
9	5	Warm Analog Str	G2	A	Lite Strings2	63	8	5
		Ŭ		В	Back Pad			
				С	-			
9	6	Mallet Lead	G2	A	Marimba 1	63	8	6
				B	-	-		
9	7	Dream Vibes	G2	A	– Vibraphone	63	8	7
				В	-		-	
				С	-	1		
9	8	Enchantment	G2	A	Glocken 1	63	8	8
				B C	-	-		
				U		1		

Page	No.	Name	Split Point	Part	Voice Name	MSB	LSB	PC			
10	1	Sweet Piano	G2	Α	S700	63	9	1			
				В	Warm Strings	1					
				С	-	1					
10	2	BrghtPianoLayer	G2	Α	CFX Stereo	63	9	9	9	9	2
				В	CP80 1						
				С	DX Woody						
10	3	80's CP Brassy	G2	Α	CP80 1	63	9	3			
				В	Synth Brass 2						
				С	-						
10	4	Gtr Pad Strings	G2	Α	Classic Gt	63	9	4			
				В	Soft Pad 2						
				С	Warm Strings						
10	5	Slow Piano Pad	G2	Α	Live CF3	63	9	5			
				В	V						
				С	Ring Pad						
10	6	Cinematic	G2	Α	High Brass	63	9	6			
				В	Orchestra 1						
				С	-						
10	7	Ambient Piano	G2	Α	CFX St Warm	63	9	7			
				В	CFX St Warm						
				С	Balimba	1					
10	8	Tricky Piano	G2	Α	CFX Stereo	63	9	8			
				В	-	1					
				С	-	1					

# Voice List

Piano         Grand         1         CFX Stereo         0           2         CFX St Bright         1           3         CFX St Warm         2           4         CFX Mono         3           5         CFX Mono         3           6         CFX Mm Warm         5           7         S700         6           8         Live CF3         7           9         Digi Piano 1         8           10         Digi Piano 1         8           11         U1         10           CP         12         CP801         11           13         CP80 2         12           E.Plano         Rd         1         78Rd         13           2         73Rd Studio         14         Wr         3           4         Wr Warm         15         1         1           7         Harpsi 1         19         1         1           8         Harpsi 2         20         1         1         1           11         DX Fine         2         1         1         1         1           13         DX Helgend         2         1 <th>Category</th> <th>Sub Category</th> <th>No</th> <th>Name</th> <th>Parameter Value</th>	Category	Sub Category	No	Name	Parameter Value
3         CFX St Warm         2           4         CFX Mono         3           5         CFX Mn Bright         4           6         CFX Mn Warm         5           7         S700         6           8         Live CF3         7           9         Digi Piano 1         8           10         Digi Piano 1         8           10         Digi Piano 1         8           11         U1         10           CP         12         CP80 1         11           13         CP80 2         12           E.Piano         Rd         1         7Rd         13           2         73Rd Studio         14         16           Clavi         3         Wr Warm         15           4         Wr Bright         16         16           Clavi         5         Clavi S         18           7         Harpsi 1         19         8           4         Nr Brapis 1         19         20           10         DX Frine         23         12         DX Frine         23           12         DX Frine         23         14	Piano		1	CFX Stereo	0
4         CFX Mono         3           5         CFX Mn Bright         4           6         CFX Mn Warm         5           7         S700         6           8         Live CF3         7           9         Digi Plano 1         8           10         Digi Plano 2         9           Upright         11         U1         10           CP         12         CP80 1         11           13         CP80 2         12           E.Piano         Rd         1         78Rd         13           2         73Rd Studio         14         4           Wr         3         Wr Warm         15           4         Wr Bright         16         Clavi B         17           6         Clavi B         17         18           7         Harpsi 1         19         18           8         Harpsi 2         20         11           10         DX Grapd         22         11           11         DX Frine         23         12           12         DX T II         24         3           10         DX Grapd         34 <td></td> <td></td> <td>2</td> <td>CFX St Bright</td> <td>1</td>			2	CFX St Bright	1
Image: space			3	CFX St Warm	2
6         CFX Mn Warm         5           7         S700         6           8         Live CF3         7           9         Digi Piano 1         8           10         Digi Piano 2         9           Upright         11         U1         10           CP         12         CP80 1         11           13         CP80 2         12         14           V         1         78Rd Studio         14           Wr         3         Wr Warm         15           2         73Rd Studio         14           Wr         3         Wr Warm         15           4         Wr Bright         16         17           6         Clavi B         17         6           7         Harpsi 1         19         18           7         Harpsi 2         20         10           7         Harpsi 1         19         13           8         Harpsi 2         20         12           7         Noody         22         11         0X Funo           10         DX Helow         20         12         13           11         <			4	CFX Mono	3
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8         Live CF3         7           9         Digi Piano 1         8           10         Digi Piano 2         9           Upright         11         U1         10           CP         12         CP80 1         11           13         CP80 2         12           E.Piano         Rd         1         78Rd         13           Wr         3         Wr Warm         15         3           4         Wr Bright         16         17           6         Clavi B         17         6         Clavi B         17           6         Clavi B         17         6         Clavi B         17           7         Harpsi 1         19         8         Harpsi 2         20           FM         9         DX Legend         21         10         DX Woody         22           11         DX Rellow         25         14         DX Mellow         25           14         DX Crisp         28         3         F         29           4         A         30         5         Y         31           Organ         1         H Croso         38			6	CFX Mn Warm	5
9         Digi Plano 1         8           10         Digi Plano 2         9           Upright         11         U1         10           CP         12         CP80 1         111           13         CP80 2         12           E.Piano         Rd         1         73Rd Studio         144           Wr         3         Wr Warm         155           E.Piano         Rd         1         73Rd Studio         14           Wr         Birstrain         156         164         177           6         Clavi B         177         166         Clavi S         18           7         Harpsi 1         19         8         Harpsi 2         200           FM         9         DX Legend         21         10         DX Woody         22           11         DX Frine         23         12         DX 7 II         24           13         DX Mellow         25         14         DX Mellow         25           14         DX Crisp         28         3         F         29         4         A         30           15         Combo         2         V         28<			7	S700	6
I0         Digi Piano 2         9           Upright         11         U1         10           CP         12         CP80 1         11           13         CP80 2         12           E.Piano         Rd         1         78Rd         13           VW         3         Wr Warm         15           4         Wr Bright         16           Clavi         5         Clavi B         17           6         Clavi S         18           7         Harpsi 1         19           8         Harpsi 2         20           FM         9         DX Legend         21           10         DX Woody         22         11         DX Frine         23           12         DX 7 II         24         13         DX Mellow         25           14         DX Crisp         26         14         DX Crisp         26           Organ         Tone Wheel         1         H         27         29           4         A         30         5         Y         31           Pipe         6         Pipe Organ 1         32         7         Pipe Organ 2			8	Live CF3	7
Upright         11         U1         10           CP         12         CP80 1         11           13         CP80 2         12           E.Piano         Rd         1         78Rd         13           Y         3         Wr Warm         15         4           Wr         3         Wr Warm         16           Clavi         5         Clavi B         17           6         Clavi S         18           7         Harpsi 1         19           8         Harpsi 2         20           FM         9         DX Legend         21           10         DX Wody         22         11           11         DX FTine         23         12           12         DX 7 II         24         13           13         DX Mellow         25         14         DX Crisp         26           Organ         Tone Wheel         1         H         27         29           4         A         30         5         Y         31           Pipe         Combo         2         V         28         3           3         Frand Jeu			9	Digi Piano 1	8
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E.Piano         Rd         1         78Rd         13           2         73Rd Studio         14           Wr         3         Wr Warm         15           4         Wr Bright         16           Clavi         5         Clavi B         17           6         Clavi S         18           7         Harpsi 1         19           8         Harpsi 2         20           FM         9         DX Legend         21           10         DX Woody         22         1           11         DX FTine         23         1           12         DX 7 II         24         3           13         DX Mellow         25         14           14         DX Crisp         26           Organ         Tone Wheel         1         H         27           Combo         2         V         28         3           3         F         29         4         A         30           5         Y         31         13         13           10         FondsEtAnches         36         11         Organ         38           10		CP			
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7         Harpsi 1         19           8         Harpsi 2         20           FM         9         DX Legend         21           10         DX Woody         22           11         DX FTine         23           12         DX 7 II         24           13         DX Mellow         25           14         DX Crisp         26           Organ         Tone Wheel         1         H           Combo         2         V         28           3         F         29         4           4         A         30         5           7         Pipe Organ 1         32         7           7         Pipe Organ 2         33         8           6         Pipe Organ 1         32         7           7         Pipe Organ 1         32         7           9         Grand Jeu         35         10           10         FondsEtAnches         36         11           11         Organo Pieno         37         12           12         Diapason         38         13           13         Claribel&Flut         39		GIAVI			
8         Harpsi 2         20           FM         9         DX Legend         21           10         DX Woody         22           11         DX FTine         23           12         DX 7 II         24           13         DX Mellow         25           14         DX Crisp         26           Organ         Tone Wheel         1         H         27           Combo         2         V         28           3         F         29         4           4         A         30         5           5         Y         31         7           Pipe Organ 1         32         7         Pipe Organ 2         33           8         Concert Organ         344         9         Grand Jeu         35           10         FondsEtAnches         36         11         Organo Pleno         37           12         Diapason         38         13         Claribel&Flut         39           14         Soft Reeds         40         15         Church Organ 44           16         Church Organ 44         44         3           18         Church Organ					
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I2         DX 7 II         24           13         DX Mellow         25           14         DX Crisp         26           Organ         Tone Wheel         1         H         27           Combo         2         V         28           3         F         29         4           4         A         30         5           5         Y         31         31           Pipe         6         Pipe Organ 1         32           7         Pipe Organ 2         33         8           8         Concert Organ         34         9           9         Grand Jeu         35         10         FondsEtAnches         36           10         FondsEtAnches         36         11         Organo Pleno         37           12         Diapason         38         13         Claribel&Flut         39           14         Soft Reeds         40         15         Church Organ1         41           16         Church Organ3         43         18         Church Organ4         44           Accordion         19         Accordion         45           20         Mu				-	
Id         DX Crisp         26           Organ         Tone Wheel         1         H         27           Combo         2         V         28           3         F         29           4         A         30           5         Y         31           Pipe         6         Pipe Organ 1         32           7         Pipe Organ 2         33         3           8         Concert Organ         34         9           9         Grand Jeu         35         10         FondsEtAnches         36           10         FondsEtAnches         36         11         Organo Pleno         37           12         Diapason         38         13         Claribel&Flut         39           14         Soft Reeds         40         15         Church Organ1         41           16         Church Organ3         43         18         Church Organ4         44           Accordion         19         Accordion         45         20         Musette         46           Brass/Woodwind)         Ensemble         1         BrassSection1         47         2         BrassSection5         51 <td></td> <td></td> <td>12</td> <td>DX 7 II</td> <td>24</td>			12	DX 7 II	24
Organ         Tone Wheel         1         H         27           Combo         2         V         28           3         F         29           4         A         30           5         Y         31           Pipe         6         Pipe Organ 1         32           7         Pipe Organ 2         33           8         Concert Organ         34           9         Grand Jeu         35           10         FondsEtAnches         36           11         Organo Pleno         37           12         Diapason         38           13         Claribel&Flut         39           14         Soft Reeds         40           15         Church Organ1         41           16         Church Organ3         43           18         Church Organ4         44           Accordion         19         Accordion         45           20         Musette         46           Brass/Wind (Brass/         Ensemble         1         BrassSection1         47           2         BrassSection5         51         6         52         7 <tr< td=""><td></td><td></td><td>13</td><td>DX Mellow</td><td>25</td></tr<>			13	DX Mellow	25
Combo         2         V         28           3         F         29         4         A         30           5         Y         31         5         Y         31           Pipe         6         Pipe Organ 1         32         7         Pipe Organ 2         33           8         Concert Organ         34         9         Grand Jeu         35         10           9         Grand Jeu         35         10         FondsEtAnches         36         11         Organo Pleno         37           12         Diapason         38         13         Claribel&Flut         39         14         Soft Reeds         40           15         Church Organ1         41         16         Church Organ3         43           18         Church Organ3         43         18         Church Organ4         44           Accordion         19         Accordion         45         20         Musette         46           Brass/Wind (Brass/         Ensemble         1         BrassSection1         47         2         BrassSection3         49         4         3         BrassSection5         51         6         52         7			14	DX Crisp	26
3         F         29           4         A         30           5         Y         31           Pipe         6         Pipe 0rgan 1         32           7         Pipe 0rgan 2         33         3           8         Concert Organ         34         9           9         Grand Jeu         35         10           10         FondsEtAnches         36         11         Organo Pleno         37           12         Diapason         38         13         Claribel&Flut         39           14         Soft Reeds         40         15         Church Organ1         41           16         Church Organ3         43         18         Church Organ4         44           Accordion         19         Accordion         45         20         Musette         46           Brss/Wind (Brass/         Ensemble         1         BrassSection1         47         2           20         Musette         46         30         BrassSection3         49           4         BrassSection3         49         4         BrassSection5         51           6         St2 Brass         52	Organ	Tone Wheel	1	Н	27
4         A         30           5         Y         31           Fipe         6         Pipe Organ 1         32           7         Pipe Organ 2         33           8         Concert Organ         34           9         Grand Jeu         35           10         FondsEtAnches         36           11         Organo Pleno         37           12         Diapason         38           13         Claribel&Flut         39           14         Soft Reeds         40           15         Church Organ1         41           16         Church Organ3         43           18         Church Organ4         44           Accordion         19         Accordion         45           20         Musette         46           Brass/Wind (Brass/         Ensemble         1         BrassSection1         47           2         BrassSection3         49         4         BrassSection5         51           6         St2 Brass         52         7         Forte Brass         53           8         StorzandoFall         54         9         High Brass         55		Combo	2	V	28
5         Y         31           Pipe         5         Pipe Organ 1         32           7         Pipe Organ 2         33           8         Concert Organ         34           9         Grand Jeu         35           10         FondsEtAnches         36           11         Organo Pleno         37           12         Diapason         38           13         Claribel&Flut         39           14         Soft Reeds         40           15         Church Organ1         41           16         Church Organ3         43           18         Church Organ4         44           Accordion         19         Accordion         45           20         Musette         46           Brass/Wind (Brass/         Ensemble         1         BrassSection1         47           2         BrassSection3         49         4         3         BrassSection5         51           6         St2 Brass         52         7         Forte Brass         53         8         StorzandoFall         54           9         High Brass         555         10         Mellow Brass2			3	F	29
Pipe         6         Pipe Organ 1         32           7         Pipe Organ 2         33         3         8         Concert Organ         34         9         Grand Jeu         35         10         FondsEtAnches         36         11         Organ 2         33         8         Concert Organ         34         9         Grand Jeu         35         10         FondsEtAnches         36         11         Organo Pleno         37         12         Diapason         38         13         Claribel&Flut         39         14         Soft Reeds         40         15         Church Organ1         41         16         Church Organ3         43         18         Church Organ4         44         44         46         19         Accordion         45         20         Musette         46         6         18         RassSection1         47         2         BrassSection3         49         4         BrassSection3         49         4         BrassSection3         49         4         BrassSection5         51         6         52         7         Forte Brass         52         7         10         Mellow Brass1         56         11         Mellow Brass1         56         11         Mellow Brass2 <t< td=""><td></td><td></td><td>4</td><td>A</td><td>30</td></t<>			4	A	30
7         Pipe Organ 2         33           8         Concert Organ         34           9         Grand Jeu         35           10         FondsEtAnches         36           11         Organo Pleno         37           12         Diapason         38           13         Claribel&Flut         39           14         Soft Reeds         40           15         Church Organ1         41           16         Church Organ3         43           18         Church Organ4         44           Accordion         19         Accordion         45           20         Musette         46           Brs/Wind (Brass/ Woodwind)         Ensemble         1         BrassSection1         47           2         BrassSection3         49         4         80         3           3         BrassSection5         51         6         52         7         Forte Brass         53           3         StorzandoFall         54         9         High Brass         55           10         Mellow Brass2         57         57         52         57           12         Soft Brass         <			5	Y	31
8         Concert Organ         34           9         Grand Jeu         35           10         FondsEtAnches         36           11         Organo Pleno         37           12         Diapason         38           13         Claribel&Flut         39           14         Soft Reeds         40           15         Church Organ1         41           16         Church Organ3         43           18         Church Organ4         44           Accordion         19         Accordion         45           20         Musette         46           Brs/Wind (Brass/ Woodwind)         Ensemble         1         BrassSection1         47           2         BrassSection3         49         4         BrassSection5         51           6         Stz Brass         52         7         Forte Brass         53           8         SforzandoFall         54         9         High Brass         55           10         Mellow Brass2         57         57         51         66           11         Mellow Brass2         57         51         60         51           9		Pipe	6	Pipe Organ 1	32
9         Grand Jeu         35           10         FondsEtAnches         36           11         Organo Pleno         37           12         Diapason         38           13         Claribel&Flut         39           14         Soft Reeds         40           15         Church Organ1         41           16         Church Organ3         43           18         Church Organ4         44           Accordion         19         Accordion         45           20         Musette         46           Brs/Wind (Brass/         Insemble         InsersSection1         47           2         BrassSection2         48         3           3         BrassSection3         49         4           4         BrassSection4         50         5           5         BrassSection5         51         6           6         Stg Brass         52         7           7         Forte Brass         53         8           8         SforzandoFall         54           9         High Brass         55           10         Mellow Brass1         56			7		
10         FondsEtAnches         36           11         Organo Pleno         37           12         Diapason         38           13         Claribel&Flut         39           14         Soft Reeds         40           15         Church Organ1         41           16         Church Organ3         43           18         Church Organ4         44           Accordion         19         Accordion         45           20         Musette         46           Brs/Wind (Brass/ Woodwind)         Ensemble         1         BrassSection1         47           2         BrassSection3         49         4         87         85           10         BrassSection5         51         6         Sfz Brass         52           7         Forte Brass         53         8         SforzandoFall         54           9         High Brass         55         10         Mellow Brass1         56           11         Mellow Brass1         56         11         Mellow Brass         55           10         Mellow Brass         55         10         Mellow Brass         58           13 <td< td=""><td></td><td></td><td></td><td>-</td><td></td></td<>				-	
11         Organo Pleno         37           12         Diapason         38           13         Claribel&Flut         39           14         Soft Reeds         40           15         Church Organ1         41           16         Church Organ3         43           18         Church Organ4         44           Accordion         19         Accordion         45           20         Musette         46           Brs/Wind (Brass/ Woodwind)         Ensemble         1         BrassSection1         47           2         BrassSection3         49         4         87           3         BrassSection4         50         5         51           6         Stz Brass         52         7         Forte Brass         53           8         SforzandoFall         54         9         High Brass         55           10         Mellow Brass1         56         11         Mellow Brass2         57           12         Soft Brass         58         13         Tp&Tb Section         59           14         Trb. Section         60         15         Horn Section         61					
12         Diapason         38           13         Claribel&Flut         39           14         Soft Reeds         40           15         Church Organ1         41           16         Church Organ3         43           18         Church Organ4         44           Accordion         19         Accordion         45           20         Musette         46           Brs/Wind (Brass/ Woodwind)         Ensemble         1         BrassSection1         47           2         BrassSection3         49         4         83         BrassSection5         51           6         Sfz Brass         52         7         Forte Brass         53           8         SforzandoFall         54         9         High Brass         55           10         Mellow Brass1         56         11         Mellow Brass2         57           12         Soft Brass         58         13         Tp&Tb Section         59           14         Trb. Section         60         15         Horn Section         61					
13         Claribel&Flut         39           14         Soft Reeds         40           15         Church Organ1         41           16         Church Organ2         42           17         Church Organ3         43           18         Church Organ4         44           Accordion         19         Accordion         45           20         Musette         46           Brs/Wind (Brass/ Woodwind)         Ensemble         1         BrassSection1         47           2         BrassSection3         49         4         BrassSection3         49           4         BrassSection5         51         6         Sfz Brass         52           7         Forte Brass         53         8         SforzandoFall         54           9         High Brass         55         10         Mellow Brass1         56           11         Mellow Brass2         57         12         Soft Brass         58           13         Tp&Tb Section         59         14         Trb. Section         60           15         Horn Section         61         16         Horn Strings         62				-	
14         Soft Reeds         40           15         Church Organ1         41           16         Church Organ2         42           17         Church Organ3         43           18         Church Organ4         44           Accordion         19         Accordion         45           20         Musette         46           Brs/Wind (Brass/ Woodwind)         Ensemble         1         BrassSection1         47           2         BrassSection3         49         4         8         3         8           3         BrassSection5         51         6         57         8         52           7         Forte Brass         53         8         SforzandoFall         54           9         High Brass         55         10         Mellow Brass1         56           11         Mellow Brass2         57         12         Soft Brass         58           13         Tp&Tb Section         59         14         Trb. Section         60           15         Horn Section         61         16         Horn Strings         62					
15         Church Organ1         41           16         Church Organ2         42           17         Church Organ3         43           18         Church Organ4         44           Accordion         19         Accordion         45           20         Musette         46           Brs/Wind (Brass/ Woodwind)         Ensemble         1         BrassSection1         47           2         BrassSection3         49         4         8         3         8           3         BrassSection5         51         6         57         8         52           7         Forte Brass         53         8         SforzandoFall         54           9         High Brass         55         10         Mellow Brass1         56           11         Mellow Brass2         57         12         Soft Brass         58           13         Tp&Tb Section         59         14         Trb. Section         60           15         Horn Section         61         16         Horn Strings         62					
16         Church Organ2         42           17         Church Organ3         43           18         Church Organ4         44           Accordion         19         Accordion         45           20         Musette         46           Brs/Wind (Brass/ Woodwind)         Ensemble         1         BrassSection1         47           2         BrassSection2         48         3         BrassSection3         49           4         BrassSection3         49         4         BrassSection4         50           5         BrassSection5         51         6         Sfz Brass         52           7         Forte Brass         53         8         SforzandoFall         54           9         High Brass         55         10         Mellow Brass1         56           11         Mellow Brass2         57         12         Soft Brass         58           13         Tp&Tb Section         59         14         Trb. Section         60           15         Horn Section         61         16         Horn Strings         62					
17         Church Organ3         43           18         Church Organ4         44           Accordion         19         Accordion         45           20         Musette         46           Brs/Wind (Brass/ Woodwind)         Ensemble         1         BrassSection1         47           2         BrassSection2         48         3         BrassSection3         49           4         BrassSection3         49         4         BrassSection4         50           5         BrassSection5         51         6         Sfz Brass         52           7         Forte Brass         53         8         SforzandoFall         54           9         High Brass         55         10         Mellow Brass1         56           11         Mellow Brass2         57         12         Soft Brass         58           13         Tp&Tb Section         59         14         Trb. Section         60           15         Horn Section         61         16         Horn Strings         62			-		
I8         Church Organ4         44           Accordion         19         Accordion         45           20         Musette         46           Brs/Wind (Brass/ Woodwind)         Ensemble         1         BrassSection1         47           2         BrassSection2         48         3         BrassSection3         49           4         BrassSection3         49         4         BrassSection4         50           5         BrassSection5         51         6         Sfz Brass         52           7         Forte Brass         53         8         SforzandoFall         54           9         High Brass         55         10         Mellow Brass1         56           11         Mellow Brass2         57         12         Soft Brass         58           13         Tp&Tb Section         59         14         Trb. Section         60           15         Horn Section         61         16         Horn Strings         62					
Accordion         19         Accordion         45           20         Musette         46           Brs/Wind (Brass/ Woodwind)         Ensemble         1         BrassSection1         47           2         BrassSection2         48         3         BrassSection3         49           4         BrassSection3         49         4         BrassSection4         50           5         BrassSection5         51         6         Sfz Brass         52           7         Forte Brass         53         8         SforzandoFall         54           9         High Brass         55         10         Mellow Brass1         56           11         Mellow Brass2         57         12         Soft Brass         58           13         Tp&Tb Section         59         14         Trb. Section         60           15         Horn Section         61         16         Horn Strings         62				-	
20         Musette         46           Brs/Wind (Brass/ Woodwind)         Ensemble         1         BrassSection1         47           2         BrassSection2         48         3         BrassSection3         49           4         BrassSection3         49         4         BrassSection3         50           5         BrassSection4         50         5         51         6         51           6         Sfz Brass         52         7         Forte Brass         53         8         SforzandoFall         54           9         High Brass         55         10         Mellow Brass1         56         11         Mellow Brass2         57           12         Soft Brass         58         13         Tp&Tb Section         59         14         Trb. Section         60           15         Horn Section         61         16         Horn Strings         62		Accordion			
(Brass/ Woodwind)         2         BrassSection2         48           3         BrassSection3         49           4         BrassSection3         49           4         BrassSection4         50           5         BrassSection5         51           6         Stz Brass         52           7         Forte Brass         53           8         SforzandoFall         54           9         High Brass         55           10         Mellow Brass1         56           11         Mellow Brass2         57           12         Soft Brass         58           13         Tp&Tb Section         59           14         Trb. Section         60           15         Horn Section         61           16         Horn Strings         62					
Woodwind)         2         BrassSection12         48           3         BrassSection3         49           4         BrassSection4         50           5         BrassSection5         51           6         Sfz Brass         52           7         Forte Brass         53           8         SforzandoFall         54           9         High Brass         55           10         Mellow Brass1         56           11         Mellow Brass2         57           12         Soft Brass         58           13         Tp&Tb Section         59           14         Trb. Section         60           15         Horn Section         61           16         Horn Strings         62		Ensemble	1	BrassSection1	47
3         BrassSection3         49           4         BrassSection4         50           5         BrassSection5         51           6         Sfz Brass         52           7         Forte Brass         53           8         SforzandoFall         54           9         High Brass         55           10         Mellow Brass1         56           11         Mellow Brass2         57           12         Soft Brass         58           13         Tp&Tb Section         59           14         Trb. Section         60           15         Horn Section         61           16         Horn Strings         62			2	BrassSection2	48
5         BrassSection5         51           6         Sfz Brass         52           7         Forte Brass         53           8         SforzandoFall         54           9         High Brass         55           10         Mellow Brass1         56           11         Mellow Brass2         57           12         Soft Brass         58           13         Tp&Tb Section         59           14         Trb. Section         60           15         Horn Section         61           16         Horn Strings         62	moouwilluj		3	BrassSection3	49
6         Sfz Brass         52           7         Forte Brass         53           8         SforzandoFall         54           9         High Brass         55           10         Mellow Brass1         56           11         Mellow Brass2         57           12         Soft Brass         58           13         Tp&Tb Section         59           14         Trb. Section         60           15         Horn Section         61           16         Horn Strings         62			4		50
7         Forte Brass         53           8         SforzandoFall         54           9         High Brass         55           10         Mellow Brass1         56           11         Mellow Brass2         57           12         Soft Brass         58           13         Tp&Tb Section         59           14         Trb. Section         60           15         Horn Section         61           16         Horn Strings         62			5	BrassSection5	51
8         SforzandoFall         54           9         High Brass         55           10         Mellow Brass1         56           11         Mellow Brass2         57           12         Soft Brass         58           13         Tp&Tb Section         59           14         Trb. Section         60           15         Horn Section         61           16         Horn Strings         62					
9         High Brass         55           10         Mellow Brass1         56           11         Mellow Brass2         57           12         Soft Brass         58           13         Tp&Tb Section         59           14         Trb. Section         60           15         Horn Section         61           16         Horn Strings         62					
10         Mellow Brass1         56           11         Mellow Brass2         57           12         Soft Brass         58           13         Tp&Tb Section         59           14         Trb. Section         60           15         Horn Section         61           16         Horn Strings         62					
11Mellow Brass25712Soft Brass5813Tp&Tb Section5914Trb. Section6015Horn Section6116Horn Strings62				-	
12Soft Brass5813Tp&Tb Section5914Trb. Section6015Horn Section6116Horn Strings62			-		
13Tp&Tb Section5914Trb. Section6015Horn Section6116Horn Strings62			-		
14Trb. Section6015Horn Section6116Horn Strings62					
15Horn Section6116Horn Strings62					
16 Horn Strings 62			-		
11 Diado Otilingo 00				_	
	I	1		S.uoo oningo	00

Category	Sub	No	Name	Parameter
Brs/Wind	Category Solo	18	Sweet Trumpet	Value 64
(Brass/	5010	19	Trumpet	65
Woodwind)		20	Trombone	66
		21	French Horn	67
		22	Horn	68
	Saxophone	23	Sax Section 1	69
		24	Sax Section 2	70
		25	Sax Section 3	71
		26	Sweet Alto Alto Sax	72 73
		27 28	Tenor Sax 1	73
		29	Tenor Sax 2	75
		30	Soprano Sax	76
		31	Baritone Sax	77
	Woodwind	32	Oboe	78
		33	Bassoon	79
		34	Clarinet	80
		35	Flute 1	81
		36 37	Flute 2 Alto Flute	82 83
		37	Tape Flute	84
		39	Recorder	85
		40	Pan Flute 1	86
		41	Pan Flute 2	87
		42	Bottle	88
		43	Shakuhachi	89
		44	Ocarina	90
		45	Harmonica 1	91
		46	Harmonica 2	92
	Curath	47	Bagpipe Custh Busse 1	93
	Synth	48 49	Synth Brass 1 Synth Brass 2	94 95
		49 50	Synth Brass 2 Synth Brass 3	95
		51	Synth Brass 4	97
		52	Jump Brass	98
		53	OB Brass 1	99
		54	OB Brass 2	100
		55	OB Brass 3	101
		56	OB Brass 4	102
		57	OB Brass 5	103
		58	SoftSynBrs 1	104
		59	SoftSynBrs 2	105
		60	Big Squish	106
		61 62	Analog Brass1 Analog Brass2	107 108
Gtr/Bass	Guitar	1	Classic Gt	109
(Guitar/		2	Nylon Guitar1	110
Bass)		3	Nylon Gt Harm	111
		4	Nylon Guitar2	112
		5	Steel Gt 1	113
		6	Steel Gt 2	114
		7	Steel Gt 3	115
		8 9	12 Str Gt 1 12 Str Gt 2	116 117
		9 10	Clean Gt 1	117
		11	Clean Gt 2	119
		12	Clean Gt 3	120
		13	60's Clean Gt	121
		14	Funk Guitar	122
		15	12 Str Clean	123
		16	Dist Guitar 1	124
		17	Dist Guitar 2	125
		18	Over The Top	126
		19	Crunch Guitar	127
		20 21	Crunch Oct Mute Dist	128 129
		21	Jazz Guitar	129
		22	Hawaiian Gt	130
	1	20	. amalian ut	101

Category         Category         Ref         Name         Val           Gtr/Bass (Guitar/ Bass)         Bass         24         Acoustic Bass         13           25         Upright Bass         13         26         Finger Bass         13           26         Finger Bass         13         27         Finger Bass         13           27         Finger Bass         13         29         Finger Bass         13           29         Finger Bass         13         29         Finger Bass         14           30         Pick Bass 10M         13         21         Pick Bass 10M         13           31         Pick Bass 10M         13         21         Pick Bass 1         14           33         Pick Bass 1         14         33         Pick Bass 1         14           33         Pick Bass 2         14         34         S12 Pass         14           34         S12 Pass         14         35         Frettless Ba 1         14           36         Frettless Ba 2         14         36         Frettless Ba 2         14           35         Synth Bass 1         14         40         Synth Bass 1         14	2 3 4 5 6 7 7 8 9 0 1 1 2 2 3 4 4 5 5 6 6 7 7 8 8 9 9
(Guitar/ Bass)         25         Upright Bass         13           26         Finger Bass 1         13           27         Finger Bass 2         13           28         Finger Bass 3         13           29         Finger Bass 4         13           30         Pick Bass 10M         13           31         Pick Bass 10         14           33         Pick Bass 1         14           34         Slap Bass         14           35         Fretless Ba 1         14           36         Fretless Ba 2         14           36         Fretless Ba 2         14           36         Fretless Ba 2         14           36         Fretless Ba 2         14           37         A Bass + Cym         14           40         Synth Bass 1         14           40         Synth Bass 3         14           41         Synth Bass 1         14           42         Synth Bass 1         14           42         Synth Bass 1         14           42         Synth Bass 1         14           42         Synth Bass 1         15           45         101 Bas	3       4       5       6       7       8       9       0       1       2       3       4       5       6       7       8       9       9
Bass)         26         Finger Bass 1         13           27         Finger Bass 2         13           28         Finger Bass 3         13           29         Finger Bass 4         13           30         Pick Bass 10M         13           31         Pick Bass 10         14           33         Pick Bass 10         14           33         Pick Bass 1         14           34         Slap Bass         14           35         Fretless Ba 1         14           36         Fretless Ba 2         14           36         Fretless Ba 2         14           36         Fretless Ba 1         14           36         Fretless Ba 2         14           40         Synth Bass 1         14           40         Synth Bass 1         14           40         Synth Bass 3         14           41         Synth Bass 1         14           42         Synth Bass 1         14           42         Synth Bass 1         14           42         Synth Bass 1         15           43         Synth Bass 1         15           44         Big Bass	4 5 6 7 8 9 9 0 1 2 3 3 4 5 5 6 7 7 8 8 9
28         Finger Bass 3         13           29         Finger Bass 4         13           30         Pick Bass 1 0M         13           31         Pick Bass 1 0         14           33         Pick Bass 1 0         14           33         Pick Bass 2         14           34         Slap Bass         14           35         Fretless Ba 1         14           36         Fretless Ba 2         14           36         Fretless Ba 2         14           36         Fretless Ba 2         14           36         Fretless Ba 2         14           37         A Bass + Cym         14           40         Synth Bass 1         14           40         Synth Bass 3         14           41         Synth Bass 4         15           43         Synth Bass 5         15           44         Big Bass         15           45         101 Bass         15           46         Competitor         15           47         Perc Punch         15           50         Click SynBass         15           51         Acid Bass         15	6 7 8 9 0 1 2 3 3 4 5 5 6 6 7 8 8 9
29         Finger Bass 4         13           30         Pick Bass 10M         13           31         Pick Bass 10M         13           32         Pick Bass 10M         13           32         Pick Bass 10M         14           33         Pick Bass 10         14           33         Pick Bass 10         14           34         Slap Bass         14           35         Fretless Ba 1         14           36         Fretless Ba 2         14           36         Fretless Ba 2         14           36         Fretless Ba 2         14           37         A.Bass + Cym         14           40         Synth Bass 1         14           40         Synth Bass 3         14           41         Synth Bass 3         14           42         Synth Bass 1         14           41         Synth Bass 1         14           42         Synth Bass 1         14           43         Synth Bass 1         15           44         Big Bass         15           45         101 Bass         15           50         Click SynBass         15 <td>7 8 9 0 1 2 3 3 4 5 5 6 6 7 8 8 9</td>	7 8 9 0 1 2 3 3 4 5 5 6 6 7 8 8 9
30         Pick Bass 10M         13           31         Pick Bass 10         14           33         Pick Bass 10         14           33         Pick Bass 10         14           33         Pick Bass 10         14           33         Pick Bass 2         14           34         Slap Bass         14           35         Fretless Ba 1         14           36         Fretless Ba 2         14           37         A.Bass + Cym         14           40         Synth Bass 1         14           40         Synth Bass 2         14           41         Synth Bass 3         14           42         Synth Bass 3         14           42         Synth Bass 1         14           41         Synth Bass 1         14           42         Synth Bass 1         14           43         Synth Bass 1         14           44         Bynth Bass 1         14           45         101 Bass 1         15           45         101 Bass 1         15           46         Competitor         15           50         Click SynBass 15         15	8 9 0 1 2 3 4 5 6 7 8 9 9
31         Pick Bass 1 M         13           32         Pick Bass 1 0         14           33         Pick Bass 2         14           34         Slap Bass         14           35         Fretless Ba 1         14           36         Fretless Ba 2         14           36         Fretless Ba 2         14           36         Fretless Ba 2         14           36         Fretless Ba 2         14           37         A.Bass + Cym         14           40         Synth Bass 1         14           40         Synth Bass 2         14           41         Synth Bass 3         14           42         Synth Bass 3         14           42         Synth Bass 1         14           41         Synth Bass 1         14           42         Synth Bass 1         14           42         Synth Bass 1         15           43         Synth Bass 1         15           44         Big Bass         15           45         101 Bass         15           46         Competitor         15           50         Click SynBass         15	9 0 1 2 3 4 5 6 7 8 9
32         Pick Bass 1 0         14           33         Pick Bass 2         14           34         Slap Bass         14           35         Fretless Ba 1         14           36         Fretless Ba 2         14           36         Fretless Ba 2         14           36         Fretless Ba 2         14           36         Fretless Ba 2         14           37         A.Bass + Cym         14           38         E.Bass + Cym         14           39         Synth Bass 1         14           40         Synth Bass 2         14           41         Synth Bass 3         14           42         Synth Bass 4         15           43         Synth Bass 15         14           43         Synth Bass 15         15           44         Big Bass         15           45         101 Bass         15           46         Competitor         15           47         Perc Punch         15           48         Trance Bass         15           50         Click SynBass         15           51         Acid Bass         16	0 1 2 3 4 5 6 7 7 8 9
33         Pick Bass 2         14           34         Slap Bass         14           35         Fretless Ba 1         14           36         Fretless Ba 2         14           36         Fretless Ba 2         14           36         Fretless Ba 2         14           37         A.Bass + Cym         14           38         E.Bass + Cym         14           39         Synth Bass 1         14           40         Synth Bass 1         14           40         Synth Bass 2         14           41         Synth Bass 3         14           42         Synth Bass 4         15           43         Synth Bass 5         15           44         Big Bass         15           45         101 Bass         15           46         Competitor         15           47         Perc Punch         15           48         Trance Bass         15           50         Click SynBass         15           51         Acid Bass         15           52         Square Bass         16           55         One Voice         16	1 2 3 4 5 6 7 8 9
34         Slap Bass         14           35         Fretless Ba 1         14           36         Fretless Ba 2         14           36         Fretless Ba 2         14           37         A.Bass + Cym         14           38         E.Bass + Cym         14           39         Synth Bass 1         14           40         Synth Bass 1         14           40         Synth Bass 2         14           41         Synth Bass 3         14           42         Synth Bass 3         14           42         Synth Bass 4         15           43         Synth Bass 5         15           44         Big Bass         15           45         101 Bass         15           46         Competitor         15           47         Perc Punch         15           48         Trance Bass         15           50         Click SynBass         15           51         Acid Bass         15           52         Square Bass         16           55         One Voice         16           55         Inou Son Bass         16	2 3 4 5 6 7 8 9
35         Fretless Ba 1         14           36         Fretless Ba 2         14           36         Fretless Ba 2         14           37         A.Bass + Cym         14           38         E.Bass + Cym         14           39         Synth Bass 1         14           40         Synth Bass 1         14           40         Synth Bass 2         14           41         Synth Bass 3         14           42         Synth Bass 3         14           42         Synth Bass 4         15           43         Synth Bass 5         15           44         Big Bass         15           45         101 Bass         15           46         Competitor         15           47         Perc Punch         15           48         Trance Bass         15           50         Click SynBass         15           51         Acid Bass         15           52         Square Bass         16           53         Long Spit         16           54         Fundamental         16           55         One Voice         16	3 4 5 6 7 8 9
36         Fretless Ba 2         14           Bass +Drum         37         A.Bass + Cym         14           38         E.Bass + Cym         14           Synth         39         Synth Bass 1         14           40         Synth Bass 2         14           41         Synth Bass 3         14           42         Synth Bass 3         14           42         Synth Bass 4         15           43         Synth Bass 5         15           44         Big Bass         15           45         101 Bass         15           46         Competitor         15           47         Perc Punch         15           48         Trance Bass         15           50         Click SynBass         15           51         Acid Bass         15           52         Square Bass         16           53         Long Spit         16           54         Fundamental         16           55         One Voice         16           55         Ine Voice         16           55         Ine Voice         16           55         Ine Section Str 1	4 5 6 7 8 9
+Drum         38         E.Bass + Cym         14           Synth         39         Synth Bass 1         14           40         Synth Bass 1         14           40         Synth Bass 2         14           41         Synth Bass 3         14           42         Synth Bass 3         14           42         Synth Bass 4         15           43         Synth Bass 5         15           44         Big Bass         15           45         101 Bass         15           45         101 Bass         15           46         Competitor         15           47         Perc Punch         15           48         Trance Bass         15           50         Click SynBass         15           51         Acid Bass         15           52         Square Bass         16           53         Long Spit         16           54         Fundamental         16           55         One Voice         16           54         Fundamental         16           55         Ine Constronstronstronstronstronstronstronstr	6 7 8 9
Synth         30         E.Bass + Uyin         14           Synth         39         Synth Bass 1         14           40         Synth Bass 2         14           41         Synth Bass 3         14           42         Synth Bass 4         15           43         Synth Bass 4         15           44         Big Bass         15           45         101 Bass         15           46         Competitor         15           47         Perc Punch         15           48         Trance Bass         15           40         Dark Bass         15           50         Click SynBass         15           51         Acid Bass         15           52         Square Bass         16           53         Long Spit         16           54         Fundamental         16           55         One Voice         16           56         Fat Sine         16           57         Fat Sine Res         16           58         Unison Bass         16           58         Unison Bass         16           58         Section Str 3 <td< td=""><td>7 8 9</td></td<>	7 8 9
40         Synth Bass 2         14           41         Synth Bass 3         14           42         Synth Bass 3         14           42         Synth Bass 3         14           42         Synth Bass 3         14           42         Synth Bass 5         15           43         Synth Bass 5         15           44         Big Bass         15           45         101 Bass         15           45         101 Bass         15           46         Competitor         15           47         Perc Punch         15           48         Trance Bass         15           50         Click SynBass         15           51         Acid Bass         15           52         Square Bass         16           53         Long Spit         16           54         Fundamental         16           55         One Voice         16           56         Fat Sine         16           57         Fat Sine Res         16           58         Unison Bass         16           58         Unison Bass         16           58	8 9
41         Synth Bass 3         14           42         Synth Bass 4         15           43         Synth Bass 5         15           44         Big Bass         15           45         101 Bass         15           46         Competitor         15           47         Perc Punch         15           48         Trance Bass         15           50         Click SynBass         15           51         Acid Bass         15           52         Square Bass         16           53         Long Spit         16           54         Fundamental         16           55         One Voice         16           54         Fundamental         16           55         One Voice         16           56         Fat Sine         16           57         Fat Sine Res         16           58         Unison Bass         16           58         Unison Bass         16           58         Section Str 1         16           53         Section Str 3         16           4         Strings 1         17           5	9
42         Synth Bass 4         15           43         Synth Bass 5         15           43         Big Bass         15           44         Big Bass         15           45         101 Bass         15           46         Competitor         15           47         Perc Punch         15           48         Trance Bass         155           49         Dark Bass         155           50         Click SynBass         155           51         Acid Bass         155           52         Square Bass         16           53         Long Spit         16           54         Fundamental         16           55         One Voice         16           56         Fat Sine         16           57         Fat Sine         16           58         Unison Bass         16           58         Unison Bass         16           58         Section Str 1         16           3         Section Str 3         16           4         Strings 1         17           5         Strings 2         17           6	
43         Synth Bass 5         15           44         Big Bass         15           45         101 Bass         15           46         Competitor         15           47         Perc Punch         15           48         Trance Bass         155           49         Dark Bass         155           50         Click SynBass         155           51         Acid Bass         155           52         Square Bass         16           53         Long Spit         16           54         Fundamental         16           55         One Voice         16           56         Fat Sine         16           57         Fat Sine Res         16           58         Unison Bass         16           58         Unison Bass         16           3         Section Str 1         16           3         Section Str 3         16           4         Strings 1         17           5         Strings 2         17           6         Orchestra 1         17           7         Orchestra 2         17           8         <	0
44         Big Bass         15           45         101 Bass         15           46         Competitor         15           47         Perc Punch         15           48         Trance Bass         15           49         Dark Bass         15           50         Click SynBass         15           51         Acid Bass         15           52         Square Bass         16           53         Long Spit         16           54         Fundamental         16           55         One Voice         16           56         Fat Sine         16           57         Fat Sine Res         16           58         Unison Bass         16           58         Unison Bass         16           58         Section Str 1         16           3         Section Str 3         16           4         Strings 1         17           5         Strings 2         17           6         Orchestra 1         17           7         Orchestra 2         17           8         Arco String         17           9         Fa	
45         101 Bass         15           46         Competitor         15           47         Perc Punch         15           48         Trance Bass         15           49         Dark Bass         155           50         Click SynBass         155           51         Acid Bass         155           52         Square Bass         16           53         Long Spit         16           54         Fundamental         16           55         One Voice         16           56         Fat Sine         16           57         Fat Sine Res         16           58         Unison Bass         16           58         Unison Bass         16           58         Section Str 1         16           3         Section Str 3         16           4         Strings 1         17           5         Strings 2         17           6         Orchestra 1         17           7         Orchestra 2         17           8         Arco String         17           9         Fast Strings         17	
47         Perc Punch         15           48         Trance Bass         15           49         Dark Bass         15           50         Click SynBass         15           51         Acid Bass         15           52         Square Bass         16           53         Long Spit         16           54         Fundamental         16           55         One Voice         16           56         Fat Sine         16           57         Fat Sine Res         16           58         Unison Bass         16           58         Unison Bass         16           58         Section Str 1         16           3         Section Str 3         16           4         Strings 1         17           5         Strings 2         17           6         Orchestra 1         17           7         Orchestra 2         17           8         Arco String         17           9         Fast Strings         17	3
48         Trance Bass         15           49         Dark Bass         15           50         Click SynBass         15           51         Acid Bass         15           52         Square Bass         16           53         Long Spit         16           54         Fundamental         16           55         One Voice         16           56         Fat Sine         16           57         Fat Sine Res         16           56         Fat Sine Res         16           57         Fat Sine Res         16           58         Unison Bass         16           58         Unison Bass         16           58         Section Str 1         16           3         Section Str 3         16           4         Strings 1         17           5         Strings 2         17           6         Orchestra 1         17           7         Orchestra 2         17           8         Arco String         17           9         Fast Strings         17	4
49         Dark Bass         15           50         Click SynBass         15           51         Acid Bass         15           52         Square Bass         16           53         Long Spit         16           54         Fundamental         16           55         One Voice         16           56         Fat Sine         16           57         Fat Sine Res         16           57         Fat Sine Res         16           58         Unison Bass         16           58         Unison Bass         16           3         Section Str 1         16           3         Section Str 2         16           3         Section Str 3         16           4         Strings 1         17           5         Strings 2         17           6         Orchestra 1         17           7         Orchestra 2         17           8         Arco String         17           9         Fast Strings         17	5
50         Click SynBass         15           51         Acid Bass         15           52         Square Bass         16           53         Long Spit         16           54         Fundamental         16           55         One Voice         16           56         Fat Sine         16           57         Fat Sine Res         16           58         Unison Bass         16           58         Unison Bass         16           58         Section Str 1         16           3         Section Str 2         16           3         Section Str 3         16           4         Strings 1         17           5         Strings 2         17           6         Orchestra 1         17           7         Orchestra 2         17           8         Arco String         17           9         Fast Strings         17	
51         Acid Bass         15           52         Square Bass         16           53         Long Spit         16           54         Fundamental         16           55         One Voice         16           56         Fat Sine         16           57         Fat Sine Res         16           58         Unison Bass         16           58         Unison Bass         16           2         Section Str 1         16           3         Section Str 2         16           3         Section Str 3         16           4         Strings 1         17           5         Strings 2         17           6         Orchestra 1         17           7         Orchestra 2         17           8         Arco String         17           9         Fast Strings         17	
52         Square Bass         16           53         Long Spit         16           54         Fundamental         16           55         One Voice         16           56         Fat Sine         16           57         Fat Sine Res         16           58         Unison Bass         16           58         Unison Bass         16           58         Section Str 1         16           3         Section Str 2         16           3         Section Str 3         16           4         Strings 1         17           5         Strings 2         17           6         Orchestra 1         17           7         Orchestra 2         17           8         Arco String         17           9         Fast Strings         17	
53         Long Spit         16           54         Fundamental         16           55         One Voice         16           56         Fat Sine         16           57         Fat Sine Res         16           58         Unison Bass         16           58         Unison Bass         16           2         Section Str 1         16           3         Section Str 2         16           3         Section Str 3         16           4         Strings 1         17           5         Strings 2         17           6         Orchestra 1         17           7         Orchestra 2         17           8         Arco String         17           9         Fast Strings         17	
54         Fundamental         16           55         One Voice         16           56         Fat Sine         16           57         Fat Sine Res         16           58         Unison Bass         16           58         Unison Bass         16           58         Unison Bass         16           2         Section Str 1         16           3         Section Str 2         16           3         Section Str 3         16           4         Strings 1         17           5         Strings 2         17           6         Orchestra 1         17           7         Orchestra 2         17           8         Arco String         17           9         Fast Strings         17	-
55         One Voice         16           56         Fat Sine         16           57         Fat Sine Res         16           58         Unison Bass         16           58         Unison Bass         16           58         Section Str 1         16           2         Section Str 2         16           3         Section Str 3         16           4         Strings 1         17           5         Strings 2         17           6         Orchestra 1         17           7         Orchestra 2         17           8         Arco String         17           9         Fast Strings         17	
57         Fat Sine Res         16           58         Unison Bass         16           Strings         Ensemble         1         Section Str 1         16           2         Section Str 2         16         3         Section Str 3         16           3         Section Str 3         16         4         Strings 1         17           5         Strings 2         17         6         Orchestra 1         17           7         Orchestra 2         17         8         Arco String         17           9         Fast Strings         17         9         Fast Strings         17	
58         Unison Bass         16           Strings         Ensemble         1         Section Str 1         16           2         Section Str 2         16         3         Section Str 3         16           3         Section Str 3         16         4         Strings 1         17           5         Strings 2         17         6         Orchestra 1         17           7         Orchestra 2         17         8         Arco String         17           9         Fast Strings         17         7         7	4
Strings         Ensemble         1         Section Str 1         16           2         Section Str 2         16         3         3         16           3         Section Str 3         16         4         3         17           5         Strings 1         17         17         17         16         0rchestra 1         17           6         Orchestra 2         17         8         Arco String         17           9         Fast Strings         17         17         17	5
2         Section Str 2         16           3         Section Str 3         16           4         Strings 1         17           5         Strings 2         17           6         Orchestra 1         17           7         Orchestra 2         17           8         Arco String         17           9         Fast Strings         17	-
3         Section Str 3         16           4         Strings 1         17           5         Strings 2         17           6         Orchestra 1         17           7         Orchestra 2         17           8         Arco String         17           9         Fast Strings         17	
4         Strings 1         17           5         Strings 2         17           6         Orchestra 1         17           7         Orchestra 2         17           8         Arco String         17           9         Fast Strings         17	
5         Strings 2         17           6         Orchestra 1         17           7         Orchestra 2         17           8         Arco String         17           9         Fast Strings         17	-
6         Orchestra 1         17           7         Orchestra 2         17           8         Arco String         17           9         Fast Strings         17	
7         Orchestra 2         17           8         Arco String         17           9         Fast Strings         17	
9 Fast Strings 17	
	4
	5
10 Marcato Str 17	6
11 Concert Str 17	
12 Legato Str 17	
13         Warm Strings         17           14         Slow Str 1         18	
14 Slow Str 1 10	
16 Slow Str 3 18	
17 60's Strings 18	3
18 70's Strings1 18	4
19 70's Strings2 18	5
20 SlwAtkTremolo 18	6
21 Tremolo Str 18	
22 Velo Strings 18	
23 Quartet 18 24 Tron Strings 19	8
24 Iron Strings 19 25 Tape Strings 19	8 9
26 Flute Strings 19	8 9 0
Solo 27 Sweet Violin 19	8 9 0 1
28 Violin 19	8 9 0 1 2
29 Cello 19	8 9 0 1 2 3
Pizzicato 30 Pizzicato 1 19	8 9 0 1 2 3 4
31 Pizzicato 2 19	8 9 0 1 2 3 4 5
32 Harp 19	8 9 0 1 2 3 4 5 6 7

Category	Sub Category	No	Name	Parameter Value
Strings	Synth	33	Syn Strings 1	199
		34	Syn Strings 2	200
		35	Syn Strings 3	201
		36	Analog Str	202
		37	Lite Strings1	203
		38	Lite Strings2	204
		39	JP Strings	205
		40	Pop Syn Str	206
		41	Unison Str	207
		42	Oct Syn Str	208
Pad	Pad	1	Bell Pad 1	209
		2	Bell Pad 2	210
		3	BrightPadBell	211
		4	Sharp Teeth	212
		5	Ring Pad	213
		6	Anig Rez Pad	214
		7	LFO Pad	215
		8	Chill Scap	215
		-		
		9	Strings Pad	217
		10	Back Pad	218
		11	Planet	219
		12	Atmosphere	220
		13	Click Pad	221
		14	Pad 80	222
		15	Poly Pad	223
		16	Glass Harp	224
		17	Digi Stuff	225
		18	New Age Pad	226
		19	Darklight	227
		20	Neo Crystal	228
		21	Vapor	229
		22	Soft Pad 1	230
		23	Soft Pad 2	231
		24	VP Soft	232
		25	Glass Pad	233
		26	Sine Pad	233
		20		234
			Echoes	
		28	Ambient Pad	236
		29	Pan Pad	237
		30	Sci-Fi	238
		31	Big Pan	239
		32	Goblins	240
		33	Sweep Pad 1	241
		34	Sweep Pad 2	242
		35	Nowhere	243
		36	Goblins Synth	244
		37	Celestial	245
		38	Converge	246
		39	Creation	247
		40	Ancestral	248
		41	Soundtrack	249
		42	Echo Pad	250
		42	Rain	250
		43		252
			Analog Pad	
		45	Dark Light	253
		46	Digi Pad	254
		47	Noble Pad	255
		48	Pop Pad	256
		49	Fat Saw	257
	1	50	Angel Pad	258

Category Sub Category No Name	Parameter Value
Pad Choir 51 Choir 1	259
52 Choir 2	260
53 Choir 3	261
54 Air Choir	262
55 Choir Aah	263
56 Voice Oohs	264
57 Slow Vox	265
58 Slow Choir	266
59 Itopia	267
60 Mystic Pad	268
Sound FX 61 Twist	269
62 Da Pad	270
63 Dark Star	271
64 Mind Bell	272
65 ZEN	273
Lead Analog 1 Dancy Hook	274
2 Faaat Dance	275
3 Techno Brass	276
4 After 1984	277
5 Analog Lead 1	278
6 Analog Lead 2	279
7 Analog Lead 3	280
8 Analog Lead 4	281
9 Saw Lead 1	282
10 Saw Lead 2	283
11 Saw Lead 3	284
12 Wire Lead	285
13 Classic Mini	286
14 Big Lead 1	287
15 Big Lead 2	288
16 Early Lead	289
17 Troy	290
18 Sync Saw Lead	291
19 Punch Lead	292
20 Soft RnB	293
21 Popcorn	294
22 Synth Trumpet	295
23 Dynmic Mini	296
24 Crying	297
25 Funky Mini	298
26 Funky Poly	299
27 Mini Three	300
28 Nu Mini	301
29 Sky Walk	302
30 Mini Soft	303
31 Mini Lead	304
32 Inda Night	305
33 Sine Lead	306
34 Tiny Lead	307
35 Synth Whistle	308
36 Raplead	309
37 Funk Lead 1	310
38 Funk Lead 2	311
39 Rezz Punch	312
40 Square Lead 1	
	313
41 Square Lead 2	
41Square Lead 242Square Lead 3	313
	313 314
42 Square Lead 3	313 314 315
42Square Lead 343Soft Square	313 314 315 316
42Square Lead 343Soft Square445th Lead	313 314 315 316 317
42     Square Lead 3       43     Soft Square       44     5th Lead       Digital     45     Digital Lead	313 314 315 316 317 318
42     Square Lead 3       43     Soft Square       44     5th Lead       Digital     45       46     Voice Lead	313 314 315 316 317 318 318 319
42     Square Lead 3       43     Soft Square       44     5th Lead       Digital     45       46     Voice Lead       47     Wind Lead	313 314 315 316 317 318 319 320
42     Square Lead 3       43     Soft Square       44     5th Lead       Digital     45       46     Voice Lead       47     Wind Lead       48     Calliope Ld 1	313 314 315 316 317 318 319 320 321

Category	Sub Category	No	Name	Parameter Value
Chr.Perc	Mallet	1	Marimba 1	325
(Chromatic Percussion)		2	Marimba 2	326
1 0100001011)		3	Xylophone 1	327
		4	Xylophone 2	328
		5	Balimba	329
		6	Vib ST	330
		7	Vibraphone	331
		8	Hard Vibes	332
		9	Glocken 1	333
		10	Glocken 2	334
		11	Music Box	335
	Bell	12	Soft Crystal	336
		13	Tinkle Bell	337
		14	Tubular Bell	338
		15	Carillon	339
	Synth Bell	16	Digi Bell 1	340
		17	Digi Bell 2	341
		18	Digi Bell 3	342
		19	Nice Bell	343
		20	Stack Bell	344
		21	Bell Harp	345
		22	Harp Vox	346
		23	Round Glock	347
		24	Air Bells	348
		25	Star Dust	349
		26	Heaven Bell	350
Others	Ethnic	1	Kalimba	351
		2	Kanoon	352
		3	Shamisen	353
		4	Sitar 1	354
		5	Sitar 2	355
		6	Banjo	356
		7	Mandolin	357
		8	Dulcimer	358
		9	Koto	359
	Percussion	10	Timpani	360
		11	Steel Drums	361
		12	Agogo	362

# **Control Change Number**

\* CC numbers A, B, and C correspond to each of Part A, B, and C. The parameters shown in parenthesis will not affect the internal tone generator. For parameter values, see tables A to C on the next page.

	(	CC No	).	Dianlow	Controllers		Table
	A	В	C	Display		Controllers	
Rotary		9			0	ROTARY [STOP] button	С
		9			6	ROTARY [SPEED] button	С
Organ	18	77	111		0	ORGAN FOOTAGE slider [16']	D
	19	78	112		0	ORGAN FOOTAGE slider [5 1/3']	D
	20	79	113		9	ORGAN FOOTAGE slider [8']	D
	21	80	114		0	ORGAN FOOTAGE slider [4']	D
	22	81	115		0	ORGAN FOOTAGE slider [2 2/3']	D
	23	82	116		0	ORGAN FOOTAGE slider [2']	D
	24	83	117		0	ORGAN FOOTAGE slider [1 3/5']	D
	25	85	118		0	ORGAN FOOTAGE slider [1 1/3']	D
	26	86	119		0	ORGAN FOOTAGE slider [1']	D
Volume		12		Volume	0	Part Volume slider [A]	Α
		27			Part Volume slider [B]		Α
		87			0	Part Volume slider [C]	А
Filter	74	30	104	Cutoff	3	FILTER [CUTOFF] knob	Α
	71	31	105	Resonance	3	FILTER [RESONANCE] knob	А
EG	73	28	102	Attack	8	EG [ATTACK] knob	Α
	72	29	103	Release	8	EG [RELEASE] knob	А
Drive	13	68	106	Depth	6	DRIVE [DEPTH] knob	А
Effect1	14	69	107	Depth	8	EFFECT [DEPTH] knob	Α
	15	70	108	Rate	₿	EFFECT [RATE] knob	А
Effect2	16	75	109	Depth	₿	EFFECT [DEPTH] knob	Α
	17	76	110	Rate	8	EFFECT [RATE] knob	Α
Delay		93		Depth	OELAY [DEPTH] knob		Α
		92		Time	8	DELAY [TIME] knob	Α
Reverb		91		Depth	3	REVERB DEPTH knob	Α
Equalizer		90		Equalizer Gain 🚯		EQUALIZER slider [LOW]	В
		89			8	EQUALIZER slider [MID]	В
		88			8	EQUALIZER slider [HIGH]	В

	CC No.	Display*	Controllers	Table
Foot Pedal 1,	1	Modulation		
Foot Pedal 2, Modulation	4	Pedal Wah		
Wheel	5	(Portamento Time)		
<b>WINGON</b>	6	(Data Entry MSB)		
	7	All Volume		
	9	Rotary Slow/Fast	ROTARY [STOP] button	С
			ROTARY [SPEED] button	С
	10	(Pan)		
	11	Expression		
	12	A: Volume	Part Volume slider [A]	A
	13	A: Drive Depth	ORIVE [DEPTH] knob	A
	14	A: Effect1 Depth	EFFECT [DEPTH] knob	A
	15	A: Effect1 Rate	EFFECT [RATE] knob	A
	16	A: Effect2 Depth	EFFECT [DEPTH] knob	A
	17	A: Effect2 Rate	EFFECT [RATE] knob	A
	18	A: Drawbar 16'	ORGAN FOOTAGE slider [16']	A
	19	A: Drawbar 5 1/3	ORGAN FOOTAGE slider [5 1/3'	] A
	20	A: Drawbar 8'	ORGAN FOOTAGE slider [8']	A
	21	A: Drawbar 4'	ORGAN FOOTAGE slider [4']	A
	22	A: Drawbar 2 2/3	ORGAN FOOTAGE slider [2 2/3'	] A
	23	A: Drawbar 2'	ORGAN FOOTAGE slider [2']	A
	24	A: Drawbar 1 3/5'	ORGAN FOOTAGE slider [1 3/5'	] A
	25	A: Drawbar 1 1/3'	ORGAN FOOTAGE slider [1 1/3'	] A
	26	A: Drawbar 1'	ORGAN FOOTAGE slider [1']	A

	CC No.	Display*		Controllers	Tabl
Foot Pedal 1,	27	B: Volume	Đ	Part Volume slider [B]	Α
Foot Pedal 2,	28	B: Attack	0	EG [ATTACK] knob	Α
Modulation Wheel	29	B: Release	0	EG [RELEASE] knob	Α
WIIGGI	30	B: Cutoff	3	FILTER [CUTOFF] knob	Α
	31	B: Resonance	3	FILTER [RESONANCE] knob	Α
	32	(Bank LSB)			
	38	(Data Entry LSB)			
	64	Sustain			
	65	(Portamento)			
	66	Sostenuto			
	67	Soft			
	68	B: Drive Depth	6	DRIVE [DEPTH] knob	A
	69	B: Effect1 Depth	Ø		A
	70	B: Effect1 Rate	Ø		A
	71	A: Resonance	8	FILTER [RESONANCE] knob	A
	72	A: Release	0	EG [RELEASE] knob	A
	72	A: Attack	-	EG [ATTACK] knob	A
	-		0		
	74	A: Cutoff	8		A
	75	B: Effect2 Depth	ø	EFFECT [DEPTH] knob	A
	76	B: Effect2 Rate	ø	EFFECT [RATE] knob	A
	77	B: Drawbar 16'	0	ORGAN FOOTAGE slider [16']	A
	78	B: Drawbar 5 1/3	0	ORGAN FOOTAGE slider [5 1/3']	A
	79	B: Drawbar 8'	0	ORGAN FOOTAGE slider [8']	A
	80	B: Drawbar 4'	0	ORGAN FOOTAGE slider [4']	A
	81	B: Drawbar 2 2/3	0	ORGAN FOOTAGE slider [2 2/3']	Α
	82	B: Drawbar 2'	0	ORGAN FOOTAGE slider [2']	Α
	83	B: Drawbar 1 3/5'	Ō	ORGAN FOOTAGE slider [1 3/5']	A
	84	(Portamento Ctrl)	-		
	85	B: Drawbar 1 1/3	O	ORGAN FOOTAGE slider [1 1/3']	A
	86	B: Drawbar 1'	0		A
			-		
	87	C: Volume	0	Part Volume slider [C]	A
	88	Equalizer High	69	EQUALIZER slider [LOW]	B
	89	Equalizer Mid	69	EQUALIZER slider [MID]	В
	90	Equalizer Low	69		В
	91	Reverb Depth	3	REVERB DEPTH knob	A
	92	Delay Time	63	DELAY [DEPTH] knob	A
	93	Delay Depth	63	DELAY [TIME] knob	A
	95	(Effect5 Depth)			
	96	(Data Increment)			
	97	(Data Decrement)			
	98	(NRPN LSB)			
	99	(NRPN MSB)			
	100	(RPN LSB)			
	100	(RPN MSB)			
	101	C: Attack		FC [ATTACK] knob	•
	-		0		A
	103	C: Release	0		A
	104	C: Cutoff	☺	FILTER [CUTOFF] knob	A
	-	C: Resonance	☺	FILTER [RESONANCE] knob	A
	106	C: Drive Depth	6	DRIVE [DEPTH] knob	A
	107	C: Effect1 Depth	62	EFFECT [DEPTH] knob	A
	108	C: Effect1 Rate	G	EFFECT [RATE] knob	A
	109	C: Effect2 Depth	•	EFFECT [DEPTH] knob	Α
	110	C: Effect2 Rate	œ	EFFECT [RATE] knob	Α
	111	C: Drawbar 16'	Ō	ORGAN FOOTAGE slider [16']	Α
	112	C: Drawbar 5 1/3	O	ORGAN FOOTAGE slider [5 1/3']	A
	113	C: Drawbar 8'	0	ORGAN FOOTAGE slider [8']	A
	114	C: Drawbar 4'	0	ORGAN FOOTAGE slider [4']	A
	-	C: Drawbar 2 2/3	-	ORGAN FOOTAGE slider [4]	
	115		0		A
	116	C: Drawbar 2'	0	ORGAN FOOTAGE slider [2']	A
	117	C: Drawbar 1 3/5'	0	ORGAN FOOTAGE slider [1 3/5']	A
	118	C: Drawbar 1 1/3'	0	ORGAN FOOTAGE slider [1 1/3']	A
	119	C: Drawbar 1'	0	ORGAN FOOTAGE slider [1']	Α
	1	USB Audio Volume	1		1

## Table A

Parameters	Controller Value		
Farameters	Transmitted	Recognized	
0-127	0-127	0-127	

## Table B

Parameters		Controll	er Value
Falalleters	•	Transmitted	Recognized
-12dB	52	0-5	0-5
-11dB	53	6-10	6-10
-10dB	54	11-15	11-15
-9dB	55	16-20	16-20
-8dB	56	21-25	21-25
-7dB	57	26-30	26-30
-6dB	58	31-35	31-35
-5dB	59	36-40	36-40
-4dB	60	41-46	41-46
-3dB	61	47-51	47-51
-2dB	62	52-56	52-56
-1dB	63	57-61	57-61
0dB	64	62-66	62-66
1dB	65	67-71	67-71
2dB	66	72-76	72-76
3dB	67	77-81	77-81
4dB	68	82-87	82-87
5dB	69	88-92	88-92
6dB	70	93-97	93-97
7dB	71	98-102	98-102
8dB	72	103-107	103-107
9dB	73	108-112	108-112
10dB	74	113-117	113-117
11dB	75	118-122	118-122
12dB	76	123-127	123-127

## Table C

Parameters	Controller Value		
Farameters	Transmitted	Recognized	
Slow	0	0-63	
Stop	64	64	
Fast	127	65-127	

#### Table D

Parameters	Controller Value		
T didiffeters	Transmitted	Recognized	
0	0	0	
1	1-18	1-18	
2	19-36	19-36	
3	37-54	37-54	
4	55-72	55-72	
5	73-90	73-90	
6	91-108	91-108	
7	109-126	109-126	
8	127	127	

# **MIDI Data Format**

#### 1 Scope

The specifications described herein apply to transmission and reception of MIDI data by a CK88 or CK61 Stage Keyboard.

#### 2 Compliance

The specifications described herein comply with the MIDI 1.0 standard.

#### (1) TRANSMIT FLOW

MIDI <-+--[SW1]--+---NOTE OFF 8nH OUT +----NOTE ON 9nH ----- CONTROL CHANGE SUSTAIN BnH,40H ASSIGNABLE CONTROLLER BnH, (01H...77H) See the following information for the Control Change to be valid when MIDI Control is set to On. --[SW3]--BANK SELECT MSB BnH,00H BANK SELECT LSB BnH,20H - [SW4] - - PROGRAM CHANGE CnH -----PITCH BEND CHANGE EnH -----SYSTEM REALTIME MESSAGE ACTIVE SENSING FEH - [SW2] --+-----SYSTEM EXCLUSIVE MESSAGE ----<BULK DUMP> FOH 43H OnH 7FH 1CH bhH blH OBH ahH amH alH ddH....ddH ccH F7H ----<PARAMETER CHANGE> FOH 43H 1nH 7FH 1CH 0BH ahH amH alH ddH...ddH F7H -----SYSTEM EXCLUSIVE MESSAGE IDENTITY REPLY FOH 7EH 7FH 06H 02H 43H 00H 41H ddH ddH mmH 00H 00H 7FH F7H dd: Device family number/code CK61: 62H 06H CK88: 63H 06H mm: version mm = (version no.-1.0) \* 10
e.g.)version 1.0 mm = (1.0-1.0) \* 10 = 0
version 1.5 mm = (1.5-1.0) \* 10 = 5 [SW1] MIDI Transmit Channel

Complies with Zone Transmit Channel when the Master Keyboard Mode SW is set to on.

- Complies with MIDI Transmit Channel in any other case. 
   [SW2]
   SYSTEM MID Device Number

   When set to "all," transmitted via "1."

   [SW3]
   SYSTEM Bank Select Switch

   [SW4]
   SYSTEM Program Change Switch

#### (2) RECEIVE FLOW





SYSTEM MIDI Device Number SYSTEM Bank Select Switch [SW2] [SW3]

[SW4] SYSTEM Program Change Switch

#### (3) TRANSMIT/RECEIVE DATA

#### (3-1) CHANNEL VOICE MESSAGES

CONTROL VALUE

0vvvvvvv

(3-1-1)	NOTE OFF STATUS NOTE NO. VELOCITY	1000nnnn (9nH) Okkkkkk Ovvvvvvv	k =	0-15 CHANNEL NUMBER 0(C-2)-127(G8) 64 Transmit	
(3-1-2)	NOTE ON/OFF STATUS NOTE NO. VELOCITY NOTE ON NOTE OFF	1000nnnn(8nH) 0kkkkkkk 0vvvvvv(v≠0) 0vvvvvv(v=0)		0-15 CHANNEL NUMBER 0(C-2)-127(G8)	
(3-1-3)		E 1011nnnn(BnH) 0cccccc 0vvvvvvv	n =	0-15 CHANNEL NUMBER	
	*TRANSMITTED CON c = 0 BANK c = 32 BANK c = 64 SUSTA c = 1119 ASSIG	SELECT MSB SELECT LSB IN	; v ; v	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	*1 *1 *3 *2
	$\begin{array}{llllllllllllllllllllllllllllllllllll$	SELECT MSB SELECT LSB ATION WAH HEL VOLUME SSION IN NUTO MENTO CONTROL	; v ; v ; v ; v ; v ; v ; v ; v	$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	*1 *1
				ROGRAM is as follows:	
	CATE	GORY MSB	LSB	PROGRAM No.	
		GORY MSB			
	CATE Live Set Pa	age 1 63 : :	LSB 0 :	PROGRAM No.	
	CATE	age 1 63 : :	LSB 0	PROGRAM No.	
	CATE Live Set Pag Live Set Pag *2 The default C follows:	AGORY MSB age 1 63 : : ge 20 63 ONTROL NUMBERS	LSB 0 : 19	PROGRAM No.	s
	CATE Live Set Pag Live Set Pag *2 The default C follows: MODUL FOOT	2GORY MSB age 1 63 : : ge 20 63	LSB 0 : 19	PROGRAM No. 07	s
	Live Set Pag Live Set Pag *2 The default C follows: FOOT *3 Foot Pedal Type	AGORY MSB AGG 1 63 : : ge 20 63 ONTROL NUMBERS ATION WHEEL PEDAL 1 PEDAL 2 = is set to FC33	LSB 0 : 19 of ASS 1 64 11 A (HalfC	PROGRAM No. 07	
	Live Set Pag Live Set Pag *2 The default C follows: MODUL FOOT *3 Foot Pedal Type pedal operati Bank Select will be ac	AGORY MSB AGGRY MSB (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	LSB 0 : 19 of ASS 1 64 11 A (HalfC he value	PROGRAM No. 07 07 IGNABLE CONTROLLER are a	ed.
(3-1-4)	CATE Live Set Pag Live Set Pag *2 The default C follows: MODUL FOOT FOOT *3 Foot Pedal Type pedal operati Bank Select will be ac Bank Select and Prog	GORY MSB gge 1 63 : : ge 20 63 ONTROL NUMBERS ATION WHEEL PEDAL 1 PEDAL 2 e is set to FC34 on transmits th cually executed where ram Change number	LSB 0 : 19 of ASS 1 64 11 A (HalfC he value	PROGRAM No. 07 07 IGNABLE CONTROLLER are a Pff) or FC4A/FC5, the foot e 0 (off) or 127 (on). yram Change message is received	ed.
(3-1-4)	CATE Live Set Pag Live Set Pag *2 The default C follows: MODUL FOOT FOOT *3 Foot Pedal Type pedal operati Bank Select will be ac Bank Select and Prog will be ignored.	KORY     MSB       uge 1     63       :     :       uge 20     63       ONTROL NUMBERS       ATION WHEEL       PEDAL 1       PEDAL 2       e is set to FC33       on transmits th       ttually executed where       ransmits th       ttually executed where       ransmits th       1100 nnnn (CnH)	LSB 0 : 19 of ASS 1 64 11 A (HalfC) te value en a Progers that a n =	PROGRAM No. 07 07 IGNABLE CONTROLLER are a Pff) or FC4A/FC5, the foot e 0 (off) or 127 (on). yram Change message is received	ed.
, , ,	Live Set Pag Live Set Pag *2 The default C follows: MODUL FOOT *3 Foot Pedal Type pedal operati Bank Select will be ac Bank Select and Prog will be ignored. PROGRAM CHANG STATUS	KORY     MSB       uge 1     63       :     :       ge 20     63       ONTROL NUMBERS       ATION WHEEL       PEDAL 1       PEDAL 2       e is set to FC33       on transmits th       ctually executed where       ram Change number       E       1100nnnn (CnH)       00000ppp	LSB 0 : 19 of ASS 1 64 11 A (HalfC) te value en a Progers that a n =	PROGRAM No. 07 07 IGNABLE CONTROLLER are an Off) or FC4A/FC5, the foot e 0 (off) or 127 (on). gram Change message is receive re not supported by this instrume 0-15 CHANNEL NUMBER	ed.
, , ,	Live Set Pag Live Set Pag *2 The default C follows: MODUL FOOT FOOT *3 Foot Pedal Type pedal operati Bank Select will be ac Bank Select and Prog will be ignored. PROGRAM CHANG STATUS PROGRAM NUMBER	KORY     MSB       kgg 1     63       :     :       gg 20     63       ONTROL NUMBERS       ATION WHEEL       PEDAL 1       PEDAL 2       # is set to FC32       on transmits th       ttually executed wherear Change number       E       1100nnnn (CnH)       00000ppp       IGE       1110nnnn (EnH)       0VVVVVV	LSB 0 : 19 of ASS 1 64 11 A (HalfC he value en a Prog pris that a n = p = n = PIT	PROGRAM No. 07 07 IGNABLE CONTROLLER are an Off) or FC4A/FC5, the foot e 0 (off) or 127 (on). gram Change message is receive re not supported by this instrume 0-15 CHANNEL NUMBER	ed.
(3-1-5)	CATE Live Set Pag Live Set Pag *2 The default C follows: MODUL FOOT *3 Foot Pedal Type pedal operati Bank Select will be ac Bank Select will be ar Bank Select and Prog will be ignored. PROGRAM CHANG STATUS PROGRAM NUMBER PITCH BEND CHAN STATUS LSB MSB	KORY     MSB       AGORY     MSB       AGORY     63       :     :       ge 20     63       ONTROL NUMBERS       ATION WHEEL       PEDAL 1       PEDAL 2       e is set to FC33       on transmits th       chuld executed where       ram Change number       E       1100nnnn (CnH)       00000pp       IH10nnnn (EnH)       00vvvvvv       0vvvvvv       0vvvvvv       vovvvvv       vovvvvv       vovvvvv	LSB 0 : 19 of ASS 1 64 11 A (HalfC he value en a Prog pris that a n = p = n = PIT	PROGRAM No. 07 07 1GNABLE CONTROLLER are as Pff) or FC4A/FC5, the foot e 0 (off) or 127 (on). Irram Change message is receive re not supported by this instrume a 0-15 CHANNEL NUMBER c 0-7 10-15 CHANNEL NUMBER CH BEND CHANGE LSB	ed.

v = DATA VALUE

#### (3-2-1) ALL SOUND OFF (CONTROL NUMBER = 78H, DATA VALUE = 0)

All the sounds currently being played, including channel messages such as note-on of a certain channel, are muted this message is received.

(3-2-2) RESET ALL CONTROLLERS (CONTROL NUMBER = 79H, DATA VALUE = 0)

Resets the value	es set for the follow	wing	contro	llers.		
PITCH BEND C	CHANGE 0	) (ce	enter	)		
MODULATION	C	) (m:	inimu	m)		
PEDAL WAH	C	) (m:	inimu	m)		
EXPRESSION	1	127	(maxi	mum)		
SUSTAIN	C	) (o:	ff)			
SOSTENUTO	C	) (o:	ff)			
SOFT	C	) (o:	ff)			
PORTAMENTO C	CONTROL C	Clear	r the	reserved	note	number

Doesn't reset the following data: PROGRAM CHANGE, BANK SELECT MSB/LSB, VOLUME

#### (3-2-3) ALL NOTES OFF (CONTROL NUMBER = 7BH, DATA VALUE = 0) All the notes currently set to on in certain channel(s) are muted when receiving this

- message. However, if Sustain or Sostenuto is on, notes will continue sounding until these are turned off.
- (3-2-4) OMNI MODE OFF (CONTROL NUMBER = 7CH, DATA VALUE = 0) Performs the same function as when receiving ALL NOTES OFF.
- (3-2-5) OMNI MODE ON (CONTROL NUMBER = 7DH, DATA VALUE = 0) Performs the same function as when receiving ALL NOTES OFF.

#### (3-3) SYSTEM REAL TIME MESSAGES

#### (3-3-1) ACTIVE SENSING

STATUS 11111110 (FEH)

#### Transmitted every 200 msec

Once this code is received, the instrument starts sensing. When neither status messages nor data are received for more than approximately 350 ms, the MIDI receive buffer will be cleared, and the sounds currently being played are forcibly turned off

#### (3-4) SYSTEM EXCLUSIVE MESSAGE

(3-4-1) UNIVERSAL NON REALTIME MESSAGE

(3-4-1-1) IDENTITY REQUEST (Receive only)

FOH 7EH 0nH 06H 01H F7H ("n" = Device No. However, this instrument receives under "omni.")

(3-4-1-2) IDENTITY REPLY (Transmit only)

FOH 7EH 7FH 06H 02H 43H 00H 41H ddH ddH mmH 00H 00H 7FH F7H

> dd: Device family number/code CK61: 62H 06H CK88: 63H 06H

mm: version
mm = (version no. - 1.0) \* 10
e.g.) version 1.0 mm = (1.0 - 1.0) \* 10 = 0
version 1.5 mm = (1.5 - 1.0) \* 10 = 5

#### (3-4-2) UNIVERSAL REALTIME MESSAGE

#### (3-4-3)PARAMETER CHANGE

#### (3-4-3-1) NATIVE PARAMETER CHANGE, MODE CHANGE

11110000	FO	Exclusive status
01000011	43	YAMAHA ID
0001nnnn	1n	Device Number
01111111	7F	Group ID High
00011100	1C	Group ID Low
00001011	0B	Model ID
Oaaaaaaa	aaaaaaa	Address High
Oaaaaaaa	aaaaaaa	Address Mid
Oaaaaaaa	aaaaaaa	Address Low
0ddddddd	dddddd	Data
11110111	F7	End of Exclusive

For parameters with data size of 2 or more, the appropriate number of data bytes will be transmitted.

See the following MIDI Data Table for Address.

#### (3-4-4) BULK DUMP

11110000	FO	Exclusive status
01000011	43	YAMAHA ID
0000nnnn	0n	Device Number
01111111	7F	Group ID High
00011100	1C	Group ID Low
0bbbbbbbb	bbbbbbb	Byte Count
0bbbbbbb	bbbbbbb	Byte Count
00001011	0B	Model ID
0aaaaaaa	aaaaaaa	Address High
0aaaaaaa	aaaaaaa	Address Mid
0aaaaaaa	aaaaaaa	Address Low
0	0	Data
0ccccccc	cccccc	Check-sum
11110111	F7	End of Exclusive

See the following MIDI Data Table for Address and Byte Count. Checksum is the value that results in a value of 0 for the lower 7 bits when the Byte Count, Start Address, Data and Checksum itself are added.

(3-4-5) DUMP F	REQUEST		
	11110000	FO	Exclusive status
	01000011	43	YAMAHA ID
	0010nnnn	2n	Device Number
	01111111	7F	Group ID High
	00011100	1C	Group ID Low
	00001011	0B	Model ID
	0aaaaaaa	aaaaaaa	Address High
	0aaaaaaa	aaaaaaa	Address Mid
	0aaaaaaa	aaaaaaa	Address Low
	11110111	F7	End of Exclusive
	See the follow	ving MIDI Data	a Table for Address.
(3-4-6) PARAMI	ETER REQU	EST	
	11110000	FO	Exclusive status
	01000011	43	YAMAHA ID
	0011nnnn	3n	Device Number
	01111111	7F	Group ID High

00011100 Group ID Low Model ID 1C 00001011 0B aaaaaaa aaaaaaa Address High Address Mid 0aaaaaaa 0aaaaaaa Address Low Oaaaaaaa aaaaaaa 11110111 F7 End of Exclusive

See the following MIDI Data Table for Address.

#### (4) SYSTEM OVERVIEW (Keyboard and Tone Generator)



USB Port 2 is enabled when 'MIDI Port MIDI SW = OFF' and 'MIDI Port USB SW = ON'

ALL SOUND OFF clears all the sounds in the specific channel(s) played by both the keyboard and the data via MIDI. ALL NOTES OFF received via MIDI clears the sounds in the specific channel(s) played via

MIDI.

# **MIDI Data Table**

## **Bank Select**

MSB		LSB		Program	Program Tune		Description
DEC	HEX	DEC	HEX	No.	Туре	Memory	Description
63	3F	0	00	0–7	Live Set	User	Live Set Page 1
		1	01	0–7	Sound	User	Live Set Page 2
		2	02	0–7		User	Live Set Page 3
		3	03	0–7		User	Live Set Page 4
		4	04	0–7		User	Live Set Page 5
		5	05	0–7		User	Live Set Page 6
		6	06	0–7		User	Live Set Page 7
		7	07	0–7		User	Live Set Page 8
		8	08	0–7		User	Live Set Page 9
		9	09	0–7		User	Live Set Page 10
		10	0A	0–7		User	Live Set Page 11
		11	0B	0–7		User	Live Set Page 12
		12	0C	0–7		User	Live Set Page 13
		13	0D	0–7		User	Live Set Page 14
		14	0E	0–7		User	Live Set Page 15
		15	0F	0–7		User	Live Set Page 16
		16	10	0–7		User	Live Set Page 17
		17	11	0–7	]	User	Live Set Page 18
		18	12	0–7		User	Live Set Page 19
		19	13	0–7		User	Live Set Page 20

## **Parameter Base Address**

Group Number = 7F 1C, Model ID = 0B

Parame	eter Bloc			
	Top Address			Description
	High	Mid	Low	
System	20	00	00	Common
	20	40	00	Master EQ
	00	7F	00	Soundmondo Format Version
BULK CONTROL	0E	00	00	Header
	0F	00	00	Footer
STORE TO FLASH	0D	00	00	Store To Flash
Live Set Common	46	00	00	Common
	46	40	00	Live Set EQ
	46	10	00	Audio Trigger Path
	4A	ZZ	00	Zone (zz: 00–03)
Live Set Part	50	Ор	00	Part

## **Bulk Dump Block**

"Top Address" indicates the top address of each block designated by the bulk dump operation. "Byte Count" indicates the data size contained in each block designated by the bulk dump operation. The block from the Bulk Header to the Bulk Footer of the Live Set Sound can be received regardless of their order; however, they cannot be received if an irrelevant Block is included. To execute 1 Live Set Sound bulk dump request, designate its corresponding Bulk Header address. For information about "pp" and "n" shown in the following list, refer to the MIDI PARAMETER CHANGE TABLE (BULK CONTROL).

			Grou	p Numbe	er = 7F 1	C, Mode	I ID = 0B	
Doror	notor Blook	Description	Byte	Count	Top Address			
Parameter Block		Description	DEC	HEX	High	Mid	Low	
System		Common	56	38	20	00	00	
		Master EQ	20	14	20	40	00	
Live Se	t Sound	Bulk Header	0	00	0E	рр	On	
		Soundmondo Format Version	4	04	00	7F	00	
	Common	Common	83	53	46	00	00	
		Live Set EQ	20	14	46	40	00	
		Audio Trigger	255	FF	46	10	00	
	Zone	Zone 1	16	10	4A	00	00	
		:				:		
		Zone 4				03		
	Part	Part A	105	69	50	00	00	
		Part B				01		
		Part C				02		
		Bulk Footer	0	00	0F	рр	0n	

Message Type	Data
Parameter Change	F0, 43, 1n, gh, gl, id, ah, am, al, dt, F7
Parameter Request	F0, 43, 3n, gh, gl, id, ah, am, al F7
Bulk Dump	F0, 43, 0n, gh, gl, bh, bl, id, ah, am, al, dt,, cc, F7
Bulk Request	F0, 43, 2n, gh, gl, id, ah, am, al, F7
	n: Device Number gh: Group Number High gl: Group Number Low bh: Byte Count High bl: Byte Count Low id: Model ID ah: Parameter Address High am: Parameter Address Middle al: Parameter Address I ow

gl: Group Number Low bh: Byte Count High bi: Byte Count Low id: Model ID ah: Parameter Address High am: Parameter Address Middle al: Parameter Address Low dt: Data cc: Data Checksum

## **MIDI PARAMETER CHANGE TABLE (BULK** CONTROL)

Group Number = 7F 1C, Model ID = 0B

A	ddres	s		Data	Parameter		Default	
High	Mid	Low	Size	Range (HEX)	Name	Description	(HEX)	Notes
0E	рр	On	1	-	Bulk Header	Live Set Sound User $(pp = 0-19, n = 0-7)$	-	
	7F	00	1	-		Current Sound Buffer	-	
0F	рр	On	1	-	Bulk Footer	Live Set Sound User $(pp = 0-19, n = 0-7)$	-	
	7F	00	1	-		Current Sound Buffer	-	

### SYSTEM

#### Common

Group Number = 7F 1C, Model ID = 0B

A	ddres	s	<b>a</b> :	Data	Parameter		Default	
High	Mid	Low	Size	Range	Name	Description	(HEX)	Notes
20	00	00	1		reserved			
		01	1		reserved			
		02	4	00–00 00–07 00–0F 00–0F	Master Tune	414.72–466.78 [Hz] 1st bit3-0: bit15-12 2nd bit3-0: bit11-8 3rd bit3-0: bit 7-4 4th bit3-0: bit 3-0	00 04 00 00	
		06	1	3D-43	Keyboard Octave Shift	-3-0-+3	40	Excluded from the save operation
		07	1	34–4C	Keyboard Transpose	-12-+12 [semitones]	40	Excluded from the save operation
		08	1	00–01	Controller Reset	Hold, Reset	01	
		09	1	00–01	Local Control	Off, On	01	
		0A	1	00–0F, 7F	Tx Channel	1–16, Off	00	
		0B	1	00–10	Rx Channel	1–16, All	00	
		0C	1	00–01	MIDI Control	Off, On	00	
		0D	1		reserved			
		0E	1	38–48	Output Gain	-24-0-+24 [dB]	3E	
		0F	1		reserved			
		10	1	00–04	Keyboard Touch Curve	Normal, Soft, Hard, Wide, Fixed	00	
		11	1	01–7F	Keyboard Fixed Velocity	1–127	40	
		12	1	00–01	Transmit/Receive Bank Select	Off, On	01	
		13	1	00–01	Transmit/Receive Program Change	Off, On	01	
		14	1		reserved			
		15	1	00–01	MIDI In/Out	Off, On	01	
		16	1	00–01	USB In/Out	Off, On	01	
		17	1		reserved			
		18	1		reserved			
		19	1		reserved			
		1A	1		reserved			
		1B	1	00–01	Value Indication	Off, On	01	
		10	1	00–01	Controller Mode	Jump, Catch	00	
		1D	1		reserved		~ /	
		1E	1	00-01	LCD Switch	Off, On	01	
		1F	1	36–4A	LCD Contrast	-10-0-+10	40	
		20	1	00–01	Panel Lock Live Set	Off, On	01	
		21	1	00-01	Panel Lock Organ	Off, On	01	
		22	1	00–01	Panel Lock Filter/ EG		01	
		23	1	00–01	Panel Lock Drive/ Effect	Off, On	01	
		24	1	00–01	Panel Lock Delay/ Reverb	Off, On	01	
		25	1	00–01	Panel Lock Equalizer	Off, On	01	
		26	1		reserved			
		27	1		reserved			

A	ddres	S	Size	Data	Parameter	Description	Default	Notes
High	Mid	Low	51ZE	Range	Name	Description	(HEX)	Notes
		28	1	00–13	Power On Page	1–20	00	
		29	1	00-07	Power On Sound	1–8	00	
		2A	1	00–03	Foot Pedal 1– Pedal Type	FC3A (Half On), FC3A (HalfOff), FC4A/FC5, FC7	00	
		2B	1	00–02	Foot Pedal 1–Live Set Inc/Dec	Off, Live Set Inc, Live Set Dec	00	
		2C	1	00–03	Foot Pedal 2– Pedal Type	FC3A (Half On), FC3A (HalfOff), FC4A/FC5, FC7	03	
		2D	1	00–02	Foot Pedal 2–Live Set Inc/Dec	Off, Live Set Inc, Live Set Dec	00	
		2E	1	00-01	Filter/EG Reset	Off, On	01	
		2F	1	00–01	Effect On/Off Reset	Off, On	01	
		30	1	00-02	reserved			
		31	1		USB Audio Volume	0–127	40	
		32	1	00-7F	Bluetooth Volume	0–127	40	
		33	1	00–7F	A/D Input Type	Mic, Line	01	
		34	1	00–01	USB Audio Loopback	Off, On	00	
		35	1		reserved			
		36	1	00-01	Speaker EQ	Normal, Table	00	
		37	1	00-01	Speaker Mute	Auto, Manual	00	

#### Master EQ

A	ddres	s	Size	Data	Parameter	Description	Default	Notes
High	Mid	Low	Size	Range	Name	Description	(HEX)	Notes
20	40	00	1	34–4C	Low Gain	-12dB-+12dB	40	Excluded from the save oper- ation
		01	1	04–28	Low Frequency	32Hz-2.0kHz	00	
		02	1		reserved			
		03	1		reserved			
		04	1		reserved			
		05	1		reserved			
		06	1		reserved			
		07	1		reserved			
		08	1	34–4C	Mid Gain	-12dB-+12dB	40	Excluded from the save oper ation
		09	1	0E-36	Mid Frequency	100Hz-10kHz	22	
		0A	1		reserved			
		0B	1		reserved			
		0C	1		reserved			
		0D	1		reserved			
		0E	1		reserved			
		0F	1		reserved			
		10	1	1 34–4C High Gain –12dB–+12dB	40	Excluded from the save oper ation		
		11	1	1C-3A	High Frequency	500Hz-16kHz	30	
		12	1		reserved			
		13	1	reserved	reserved			

#### Soundmondo Format Version

A	ddres	s	Size	Data	Parameter Name	Description	Default	Notes
High	Mid	Low	0126	Range	Falanciel Name	Description	(HEX)	NUICS
00	7F	00	1	00–7F	Soundmondo Format Version Major		01	
			1	00-7F	Soundmondo Format Version Minor		00	
			1	00-7F	Soundmondo Format Version Bugfix		00	
			1		reserved		00	
TOTAL	SIZE =	4		4 (HEX)				

## Live Set Common

#### Common

Group Number = 7F 1C, Model ID = 0B

Δ	ddres	s		Data		Group Number =	Default	
High	Mid	Low	Size	Data Range	Parameter Name	Description	(HEX)	Notes
46	00	00	1	20–7E	Live Set Sound Name 1	32-126 (ASCII)	49	Т
		01	1	20–7E	Live Set Sound Name 2	32-126 (ASCII)	6E	'n'
		02	1	20–7E	Live Set Sound Name 3	32–126 (ASCII)	69	'l'
		03	1	20–7E	Live Set Sound Name 4	32-126 (ASCII)	74	't'
		04	1	20–7E	Live Set Sound Name 5	32–126 (ASCII)	20	
		05	1	20–7E	Live Set Sound Name 6	32–126 (ASCII)	53	'S'
		06	1	20–7E	Live Set Sound Name 7	32-126 (ASCII)	6F	'0'
		07	1	20–7E	Live Set Sound Name 8	32–126 (ASCII)	75	'u'
		08	1	20–7E	Live Set Sound Name 9	32–126 (ASCII)	6E	'n'
		09	1	20–7E	Live Set Sound Name 10	32–126 (ASCII)	64	'd'
		0A	1	20–7E	Live Set Sound Name 11	32–126 (ASCII)	20	
		0B	1	20–7E	Live Set Sound Name 12	32–126 (ASCII)	20	
		00	1	20–7E	Live Set Sound Name 13	32–126 (ASCII)	20	
		0D	1	20–7E	Live Set Sound Name 14	32–126 (ASCII)	20	
		0E	1	20–7E	Live Set Sound Name 15	32–126 (ASCII)	20	
		0F	1		reserved	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
		10	1	00–01	Live Set EQ Mode Switch	Off, On	00	
		11	1	00–01	Master Keyboard Mode Switch	Off, On	00	
		12	1	00–01	Advanced Zone Switch	Off, On	00	
		13	2	00–12 00–7F	Tempo	42.0-240.0 1st bit6-0 → bit13-7 2nd bit6-0 → bit6-0	09 30	
		15	1	34-4C	Sound Transpose	-12-+12	40	
		16	1	00–03	Layer Split Mode	ABC, A/BC, AB/C, A/B/C	00	
-		17 18	1	01–7F	reserved Split Point	C#-2-G8	37	Only for
		10		01-71	Split Folite	0#-2-00	57	splitting in two
		19	1	01–7E	Split Point A-B	C#-2-F#8	37	Only for splitting in three
		1A	1	02–7F	Split Point B-C	D-2-G8	4F	Only for splitting in three
		1B 1C	1	00–78	reserved Modulation Wheel	0–119, 120	01	
					Assign	(USB Audio Volume) For more information, see "Control Change Number" (page 54).		
		1D	1		reserved			
		1E 1F	1	00–78	reserved Foot Pedal 1 Assign	0–119, 120 (USB Audio Volume) For more information, see "Control Change Number" (page 54).	40	
		20	1	00–7F	Foot Pedal 1 Limit Low	(page 34). 0–127	00	
		21	1	00–7F	Foot Pedal 1 Limit High	0–127	7F	
L		I	I			I	I	l

A	ddres	s	Size	Data	Parameter Name	Description	Default	Notes
High	Mid	Low		Range		-	(HEX)	10103
		22	1	00–78	Foot Pedal 2 Assign	0–119, 120 (USB Audio Volume) For more information, see "Control Change Number" (page 54).	OB	
		23	1	00–7F	Foot Pedal 2 Limit Low	0–127	00	
		24	1	00–7F	Foot Pedal 2 Limit High	0–127	7F	
		25	1		reserved			
		26	1	00.04	reserved	011 0		
		27 28	1	00–01 00–03	Delay Switch Delay Type	Off, On Digital Delay,	00 00	
		20	1	00-03 00-7F	Delay Depth	Analog Delay, Cross Delay, Tempo Delay 0–127	40	
		23 2A	1	00-7F	Delay Time	0-127	40	
		2B	1	00-0E	Delay Tempo Delay Time	1/32 Tri., 1/64 Dot., 1/32, 1/16 Tri., 1/32 Dot., 1/16, 1/8 Tri., 1/16 Dot., 1/8, 1/4 Tri., 1/8 Dot., 1/4, 1/2 Tri., 1/4 Dot., 1/2	OB	
		2C	1	00-01	Reverb Switch	Off, On	01	
		2D	1	00–02	Reverb Type	Hall Reverb, Room Reverb, Plate Reverb	00	
		2E	1	00–7F	Reverb Depth	0–127	14	
		2F 30	1	00-01	reserved Rotary Speaker	Slow, Fast	00	
		31	1	00–01	Slow/Fast Rotary Speaker Stop	Off, On	00	
		32	1		reserved			
		33	1	00–01	Audio Trigger Switch	Off, On	00	
		34	1	00–7F	Audio Trigger Volume	0–127	40	
		35	1	00–01	Audio Trigger Key Assign	Lowest, Highest	01	
		36	1	00–02	Audio Trigger Play Mode	One Shot, Play/Stop, Play/Pause	00	
		37	1		reserved			
		38	1	04–28	A/D Input–EQ Low Freq	32 Hz–2.0 kHz	12	
		39	1	34-40	A/D Input–EQ Low Gain	-12 dB-+12 dB	40	
		3A 3B	1	0E-36 34-4C	A/D Input–EQ Mid Freq A/D Input–EQ Mid	100 Hz–10 kHz	29 40	
		3B 3C	1	34-40 1C-3A	A/D Input–EQ Mid Gain A/D Input–EQ High	-12 0B-+12 dB 500 Hz-16 kHz	40 34	
		3D	1	34-4C	Freq A/D Input–EQ High	-12 dB-+12	40	
		3E	1	00–01	Gain A/D Input–Noise	dB Off, On	00	
		3F	1	36–61	Gate Switch A/D Input–Noise Gate Threshold	–73 dB––30 dB	52	
		40	1		reserved			
		41	1		reserved			
		42	1		reserved			
		43 44	1		reserved reserved			
		44 45	1	00–22	A/D Input–Effect 1 Type	*1	00	
		46	1	00–7F	A/D Input–Effect 1 Depth	0–127	40	
		47	1	00–7F	A/D Input–Effect 1 Rate	0–127	40	
		48	1		reserved			

A	ddres	s	Size	Data	Parameter Name	Description	Default	Notes
High	Mid	Low	Size	Range	Parameter Name	Description	(HEX)	NULES
		4A	1	00–7F	A/D Input–Effect 2 Depth	0–127	40	
		4B	1	00–7F	A/D Input–Effect 2 Rate	0–127	40	
		4C	1	00–7F	A/D Input–Volume	0–127	7F	
		4D	1		reserved			
		4E	1		reserved			
		4F	1		reserved			
		50	1		reserved			
		51	1		reserved			
		52	1		reserved			
TOTAL	OTAL SIZE = 83			53 (HE)	<)			

\*1: G Chorus, SPX Chorus, Symphonic, 816 Chorus, VCM Flanger, Cross FB Flanger, VCM Stereo Phaser, Small Phaser, Max90, Dual Phaser, Tremolo, Auto Pan, Simple Rotary, British Combo, British Lead, Small Stereo, Compressor, Tone Control, 1 BandEQ Narrow, 1 BandEQ Wide, Touch Wah, Pedal Wah, Cross Delay, Digital Delay, Analog Delay, Room Reverb, Hall Reverb, Reverse Reverb, Ring Modulator, Slicer, LP Filter, HP Filter, Lo-Fi, Harmonic Enhancer

#### Live Set EQ

A	ddres	s	Size	Data	Parameter	Departmention	Default	Notes
High	Mid	Low	Size	Range	Name	Description	(HEX)	Notes
46	40	00	1	34-4C	Low Gain	-12 dB-+12 dB	40	
		01	1	04–28	Low Frequency	32 Hz-2.0 kHz	00	
		02	1		reserved			
		03	1		reserved			
		04	1		reserved			
		05	1		reserved			
		06	1		reserved			
		07	1		reserved			
		08	1	34-4C	Mid Gain	-12 dB-+12 dB	40	
		09	1	0E-36	Mid Frequency	100 Hz-10 kHz	22	
		0A	1		reserved			
		0B	1		reserved			
		00	1		reserved			
		0D	1		reserved			
		0E	1		reserved			
		0F	1		reserved			
		10	1	34-4C	High Gain	-12 dB-+12 dB	40	
		11	1	1C-3A	High Frequency	500 Hz-16 kHz	30	
		12	1		reserved			
		13	1		reserved			

TOTAL SIZE = 20

14 (HEX)

#### Audio Trigger

A	Address		Address		Size	Siza D	Data Parameter	Description	Default	Notes
High	Mid	Low	3126	Range	Name	Description	(HEX)	NUICS		
46	10	00	255 at the maxi- mum		Wave File Path	32–127 (ASCII)				

TOTAL SIZE = 255

FF (HEX)

#### ZONE

## Zone

Group Number = 7F 1C, Model ID = 0B

Δ	ddres	\$		Data	Parameter		Default	
High	Mid	Low	Size	Range	Name	Description	(HEX)	Notes
4A	ZZ	00	1	00–01	Zone Switch	Off, On	00–01	With Default, only Zone 1 is ON.
		01	1	00–0F	Transmit Channel	1–16	00–03	With Default, Zone 1 is 0, Zone 2 is 1, Zone 3 is 2, and Zone 4 is 3.
		02	1	3D-43	Transpose (Octave)	-3-+3	40	
		03	1	35–4B	Transpose (Semitone)	-11-+11	40	
		04	1	00–7F	Note Limit Low	C-2-G8	00	The highest value is defined with <i>Note Limit</i> <i>High</i> .
		05	1	00–7F	Note Limit High	C-2-G8	7F	The lowest value is defined with <i>Note Limit Low</i> .
		06	1		reserved			
		07	1	00–7F	MIDI Volume	0–127	7F	
		08	1	00–7F	MIDI Pan	L64-C-R63	40	
		09	1	00–7F	MIDI Bank MSB	000–127	00	
		0A	1	00–7F	MIDI Bank LSB	000–127	00	
		0B	1	00–7F	MIDI Program Number	001–128	00	
		00	1	00–1F	Transmit Bank Select Transmit Program Change Transmit Volume Transmit Pan	bit0: Off, On Bank Select bit1: Off, On Program Change bit2: Off, On Volume bit3: Off, On Pan	1F	When the Volume is Off, CC#11 (Expres- sion) will not be transmitted.
		0D	1	00–3F	Transmit PB Transmit Mod Transmit Foot Pedal 1 Transmit Foot Pedal 2	bit0: Off, On PB bit1: Off, On Mod bit2: Off, On Foot Pedal 1 bit3: Off, On Foot Pedal 2	OF	
		0E	1		reserved			
		0F	1		reserved			

zz = Zone Number 00–03 (HEX)

## Live Set Part

## Part

						Group Number =	7F 1C, Mo	del ID = Ol
A High	ddres Mid	s Low	Size	Data Range (HEX)	Parameter Name	Description	Default (HEX)	Notes
50	Op	00	1 2	00–09 00–7F 00–7F	Current Category Category 1 Voice Number	$\begin{array}{c} 0-12\\ 1 \text{ st bit6-0} \rightarrow\\ \text{bit13-7}\\ 2 \text{ nd bit6-0} \rightarrow\\ \text{bit6-0} \end{array}$	00 00 00	Piano
		03	2	00–7F 00–7F	Category 2 Voice Number	13-26 1st bit6-0 → bit13-7 2nd bit6-0 → bit6-0	00 00	E.Piano
		05	2	00–7F 00–7F	Category 3 Voice Number	$27-46$ 1st bit6-0 $\rightarrow$ bit13-7 2nd bit6-0 $\rightarrow$ bit6-0	00 00	Organ
		07	2	00–7F 00–7F	Category 4 Voice Number	47-108 1st bit6-0 → bit13-7 2nd bit6-0 → bit6-0	00 00	Brs/ Wind
		09	2	00–7F 00–7F	Category 5 Voice Number	109–166 1st bit6-0 → bit13-7 2nd bit6-0 → bit6-0	00 00	Gtr/Bass
		OB	2	00–7F 00–7F	Category 6 Voice Number	167-208 1st bit6-0 → bit13-7 2nd bit6-0 → bit6-0	00 00	Strings
		OD	2	00–7F 00–7F	Category 7 Voice Number	$209-273$ 1st bit6-0 $\rightarrow$ bit13-7 2nd bit6-0 $\rightarrow$ bit6-0	00 00	Pad
		OF	2	00–7F 00–7F	Category 8 Voice Number	$274-324$ 1st bit6-0 $\rightarrow$ bit13-7 2nd bit6-0 $\rightarrow$ bit6-0	00 00	Lead
		11	2	00–7F 00–7F	Category 9 Voice Number	$325-350$ 1st bit6-0 $\rightarrow$ bit13-7 2nd bit6-0 $\rightarrow$ bit6-0	00 00	Chr.Perc
		13	2	00–7F 00–7F	Category 10 Voice Number	351-362 1st bit6-0 $\rightarrow$ bit13-7 2nd bit6-0 $\rightarrow$ bit6-0	00 00	Others
		15	1		reserved			
		16	1	28–58	Note Shift	-24-0-+24	40	
		17	1	00-7F	Part Volume	0–127	7F	
		18	1	00–0B	Part Color	0: Red, 1: Orange, 2: Yellow, 3: Lime, 4: Green, 5: Spring, 6: Cyan, 7: Azure, 8: Blue, 9: Violet, 10: Magenta, 11: Rose	A: 02, B: 08, C: 04	
		19	1	00–01	Part Switch	Off, On	A: 01, B: 00, C: 00	
		1A	1	00–01	Part Selected	Off, On	A: 01, B: 00, C: 00	
		1B 1C	1	00–01	Effect Select reserved	0: Effect1, 1: Effect2	00	
		1D	1		reserved			
		1D 1E	1		reserved			
		IE 1F	1		reserved			
		20	1	0001	Mono/Poly	Mono, Poly	01	
		20	1	00-01	Mono Type	Normal, Fingered Portamento, Full- time Portamento	00	Invalid for Organ Flute voice
		22	1		reserved			

A	ddres	s	<b>.</b>	Data	Parameter		Default	
High	Mid	Low	Size	Range (HEX)	Name	Description	(HEX)	Notes
		23	1	00–7F	Portamento Time	0–127	14	Invalid for Organ Flute voice (for both Porta- mento Time and Porta- mento Time Mode)
		24	1	00–01	Portamento Time Mode	Rate, Time	00	
		25	1		reserved			
		26	1		reserved			
		27 28	1		reserved reserved			
		29	1		reserved			
		2A	1		reserved			
		2B	1		reserved			
		2C 2D	1	00–01 00–02	Unison Switch Unison Type	Off, On Multi Layer, Harmonics, Sub Harmonics	00	
		2E	1	00–7F	Unison Volume	0–127	7F	
		2F	1	00-7F	Unison Detune	0-127	40	
		30 31	1	28–58 00–7F	Pitch Bend Range Pitch Modulation	-24-0-+24 0-127	42 0A	
		32	1	00-7F	Depth Amplifyer	0-127	00	
		33	1	00–7F	Modulation Depth Filter Modulation	0–127	00	
		34	1	00–7F	Depth Modulation Speed	-64-0-+63	40	
		35	1	00-01	Receive Expression	Off, On	01	
		36	1	00–01	Receive Sustain	Off, On	01	
		37	1	00–01	Receive Sostenuto	Off, On	01	
		38 39	1	00–01 00–02	Receive Soft External Keyboard	Off, On Ext+Int, ExtOnly, Off	01 00	
		3A	1	00–7F	Touch Sensitivity Depth	0–127	40	
		3B	1	00–7F	Touch Sensitivity Offset	0–127	40	
		3C	1		reserved			
		3D 3E	1		reserved reserved			
		3F	1		reserved			
		40	1	00–7F	Drawbar 16'	0–127	7F	Correla-
		41	1	00–7F	Drawbar 5 1/3'	0–127	7F	tion between
		42	1	00-7F	Drawbar 8'	0-127	7F	the draw- bar posi-
		43 44	1	00–7F 00–7F	Drawbar 4' Drawbar 2 2/3'	0–127 0–127	00	tions and paramete
		44	1	00-7F	Drawbar 2'	0-127	00	values 0: 0
		46	1	00-7F	Drawbar 1 3/5'	0–127	00	1: 1–18
		47	1	00–7F	Drawbar 1 1/3'	0–127	00	2: 19–36 3: 37–54
		48	1	00–7F	Drawbar 1'	0–127	00	4: 55–72 5: 73–90 6: 91–108 7: 109– 126 8: 127
		49	1	00–01	Percussion Switch	Off, On	00	
		4A	1	00-01	Percussion Type	3rd, 2nd	00	
		4B 4C	1	00–01 00–01	Percussion Decay Percussion Volume	Slow, Fast Normal, Soft	00	
		4D 4E	1	00–01	reserved Vibrato/Chorus	Off, On	00	
					Switch			
		4F 50	1	00-05	Vibrato/Chorus Type Filter Switch	V1, C1, V2, C2, V3, C3 Off, On	05	
		50 51	1	00-01 00-7F	Filter Switch	01, 01 0–127	40	
		52	1	00-7F	Filter Resonance	0-127	40	<u> </u>
		53	1	00-01	EG Switch	Off, On	01	
_		54	1	00-7F	EG Attack	0–127	40	
		55	1	00–7F	EG Release	0–127	40	

A	ddres	s		Data	Parameter	_	Default	
High	Mid	Low	Size	Range (HEX)	Name	Description	(HEX)	Notes
		56	1	00–01	Drive Switch	Off, On	00	
		57	1	00–04	Drive Type	O.Drive, Dist, Rotary A, Rotary B, Comp	00	
		58	1	00–7F	Drive Depth	0–127	40	
		59	1	00–01	Effect 1 Switch	Off, On	00	
		5A	1	00–23	Effect 1 Type	*2	00	
		5B	1	00-7F	Effect 1 Depth	0–127	40	
		5C	1	00-7F	Effect 1 Rate	0–127	40	
		5D	1	00–01	Effect 2 Switch	Off, On	00	
		5E	1	00–23	Effect 2 Type	*2	00	
		5F	1	00-7F	Effect 2 Depth	0–127	40	
		60	1	00-7F	Effect 2 Rate	0–127	40	
		61	1		reserved			
		62	1		reserved			
		63	1		reserved			
		64	1		reserved			
		65	1		reserved			
		66	1		reserved			
		67	1		reserved			
		68	1		reserved			

TOTAL SIZE = 105 69 (HEX)

p = Part number 0–2 0: A, 1: B, 2: C

\*2: G Chorus, SPX Chorus, Symphonic, 816 Chorus, VCM Flanger, Cross FB Flanger, VCM Stereo Phaser, Small Phaser, Max90, Dual Phaser, Tremolo, Auto Pan, Simple Rotary, British Combo, British Lead, Small Stereo, Compressor, Tone Control, 1 BandEQ Narrow, 1 BandEQ Wide, Auto Wah, Touch Wah, Pedal Wah, Cross Delay, Digital Delay, Analog Delay, Room Reverb, Hall Reverb, Reverse Reverb, Ring Modulator, Slicer, LP Filter, HP Filter, Lo-Fi, Damper Resonance, Harmonic Enhancer

#### Data List

# YAMAHA

[Stage Keyboard]Date :16-JUL-2021Model CK88 CK61 MIDI Implementation ChartVersion : 1.0

Function		Transmitted	Recognized	Remarks
Basic Channel	Default Changed	1 - 16 1 - 16	1 - 16 1 - 16	Memorized
Mode	Default Messages Altered	3 X *****	3 X X	Memorized
Note Number : True voice		0 - 127 *****	0 - 127 0 - 127	
Velocity	Note On Note Off	O 9nH,v=1-127 X 8nH,v=64	O 9nH,v=1-127 O 9nH,v=0 or 8nH	
After Touch	Key's Ch's	X X	X X	
Pitch Bend		0	0	
7 Control Change	0,32 1,11,67,84 64 9,12-31 68-83 85-93 102-119 1-119	O *2 O X O X O *1 O *1 O *1 O *1 O *3	0 *2 0 0 2 0 *2 0 *2 0 *1 0 *1 0 *1 0 *1 X	Bank Select Sustain Sw Sostenuto
Prog Change :	True #	0 0 - 127 *2	0 0 - 7 *2	
System Exclusive		0	0	
Common :	Song Pos. Song Sel. Tune	X X X	X X X	
System : Real Time :		X X	X X	
Aux : Reset	ve Sense	X X X X O X	O (120) O (121) X O (123-125) O X	
*2 r	eceive/tra	ansmit if MIDI cor ansmit if switch i f assigned to cont	is on.	

O : Yes X : No Mode 1 : OMNI ON , POLYMode 2 : OMNI ON , MONOMode 3 : OMNI OFF, POLYMode 4 : OMNI OFF, MONO

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# **Other information**

# Troubleshooting

If the CK does not behave as expected—for example, not producing the correct sound or producing no sound at all—you can try to resolve the issue as described below. Many issues can also be resolved by carrying out the *Factory Reset* (page 67) operation. If any specific issue should persist, please contact your Yamaha dealer or a service center (see the back of this booklet).

lssue		Suspected cause	Solution	
The CK turns off unexpectedly.		This is normal when the <i>Auto Power Off</i> function is enabled.	If necessary, you can disable the Auto Power Off function to prevent it from turning off the CK again (page 36).	
No sound is produced.		All the Part [ON/OFF] buttons are OFF.	Set the desired Part [ON/OFF] button to ON.	
		The Part volume is turned fully down.	Use the Part Volume sliders to adjust the volume.	
		Local Control is set to Off.	When <i>Local Control</i> is set to <i>Off</i> , the internal tone generator will not play a sound when you play the keyboard. Set <i>Local Control</i> to <i>On</i> (page 37).	
		MIDI volume or expression has been set to a very low level by an external MIDI controller.	Try changing a Live Set Sound. If a pedal has been connected to the FOOT PEDAL jacks, move the pedal to change the volume.	
	No sound is produced from the built-in speakers.	SPEAKERS switch is set to OFF.	Set the SPEAKERS switch to ON.	
		When the headphones are connected, the built-in speakers may be muted in certain settings as shown below.		
		<ul> <li>When the [MENU] button → General →</li> <li>System → Speaker → Speaker Mute is set to Auto.</li> </ul>	Disconnect the headphones.	
		<ul> <li>When the [MENU] button → General → System → Speaker → Speaker Mute is set to Manual and the SPEAKERS switch is set to OFF.</li> </ul>	Set the SPEAKERS switch to ON.	
	No sound is produced from the connected external device.	Power to the CK or the connected external audio device is not turned on.	Check the power to the CK and the connected external audio device is turned on.	
		The volume of the CK and the connected external audio equipment are turned fully down.	Adjust the volume. Use the [MASTER VOLUME] slider to adjust the volume. If a pedal has been connected to the FOOT PEDAL jacks, try moving the pedals.	
A sound continues to play indefinitely.		An Effect (such as delay) continues.	Lower the [DEPTH] knob or set the EFFECT1 or EFFECT2 [ON/OFF] button to OFF. If a Live Set Sound has been changed while a sound continues to play, try selecting a different Live Set Sound.	
Sounds are distorted.		Effect settings are not appropriate.	Sound will be distorted depending on the effect types and the settings. Change the effect types and the settings.	
		Volume is set too high. <i>Output Gain</i> is set too high.	Adjust the volume. To adjust the overall volume of the CK, move the [MASTER VOLUME] slider. Or, use the [MENU] button $\rightarrow$ General $\rightarrow$ Audio $\rightarrow$ Output Gain (page 38).	
Issue	Suspected cause	Solution		
---	--	---		
Sounds are distorted.	The Volume of the connected external audio device is set too high.	Adjust the volume of the connected external audio device or use the A/D INPUT [GAIN] knob of the CK. Or, you can also adjust the volume from the [MENU] button $\rightarrow$ General $\rightarrow$ Audio $\rightarrow$ USB Audio Volume (page 38).		
Sound output is intermittent and stutters.	The total number of notes has exceeded the maximum polyphony (128 notes).	Be careful not to exceed the maximum polyphony.		
No effect is applied.	Effects are set to OFF.	Set the effects ON with the EFFECT 1 [ON/ OFF] button or the EFFECT 2 [ON/OFF] button.		
	The depth is turned to the minimum level.	Use the [DEPTH] knob to adjust the effect depth.		
Moving the Pitch Bend Wheel or Modulation Wheel does not change the sound.	The value is set to "0."	Change the value.		
Nothing is shown on the Display (LCD).	The [MENU] button $\rightarrow$ General $\rightarrow$ Control Panel $\rightarrow$ Display $\rightarrow$ LCD Switch is set to Off.	Make sure to set the [MENU] button $\rightarrow$ General $\rightarrow$ Control Panel $\rightarrow$ Display $\rightarrow$ LCD Switch to On (page 38).		
		If the menu items are not visible, adjust the contrast from the [MENU] button $\rightarrow$ General $\rightarrow$ Control Panel $\rightarrow$ Display $\rightarrow$ LCD Contrast (page 38).		
A pedal does not work.	The pedal type is not correct.	Set from the [MENU] button $\rightarrow$ General $\rightarrow$ Foot Pedal $\rightarrow$ Pedal 1 or Pedal 2 (page 39).		
	The pedal is not correctly connected.	Make sure that the pedal's plug is fully and firmly inserted.		
	<i>Receive SW</i> is turned off.	From the [SETTINGS] button $\rightarrow$ Controllers $\rightarrow$ Receive SW, select a pedal and set it to ON (page 31).		
Cannot save files to the external USB flash drive.	The USB flash drive is write-protected.	Disable the write protection.		
	The USB flash drive is not formatted properly.	Format the USB flash drive again.		
Communication between the computer and the CK does not work properly.	The Port settings on the computer are not appropriate.	Check the port settings on the computer.		
MIDI bulk data transmission does not work	Use of the wrong terminals (MIDI or USB).	Check the settings.		
properly.	Wrong MIDI device number.	Check the MIDI device number.		

### **Restoring the Factory Default Settings (Factory Reset)**

The Factory Reset function allows you to restore the CK to its initial condition.

### NOTICE

When the *Factory Reset* function is carried out, all the Live Set Sounds you have stored, as well as the settings of MENU screens and SETTINGS screens will be overwritten with their defaults. It is wise, therefore, to regularly save backups of important settings on a USB flash drive.

### ■ Carrying out the *Factory Reset*

To reset all values to the factory defaults, press the [MENU] button  $\rightarrow$  Job  $\rightarrow$  Factory Reset (page 40).

## **Display messages**

Messages	Description
Auto power off disabled.	This message appears when Auto Power Off is disabled.
Bluetooth pairingPress [EXIT] button to cancel pairing.	The Bluetooth device and the CK are being paired. Press the [EXIT] button to cancel pairing.
Change [Pedal Live Set Inc/Dec] to [Off].	Before changing the foot pedal assignment from the [SETTINGS] button, you need to set the <i>Live Set Inc/Dec</i> parameter to <i>off</i> from the [MENU] button.
Completed.	The specified operation (Load, Save, Format or another Job) has been completed.
Connect a USB device.	There is no connected USB device.
Connecting to USB device	Currently recognizing the USB flash drive connected to the USB [TO DEVICE] terminal.
Device number is off.	Bulk data cannot be transmitted or received because the device number is off.
Device number mismatch.	Bulk data cannot be received because the device numbers do not match.
File or folder already exists.	A file or a folder having the same name as the one you are about to save already exists.
File or folder path is too long.	The file or folder cannot be accessed because the maximum length for the file name or the pathname has been exceeded.
lllegal bulk data.	An error occurred while receiving a Bulk data or Bulk Request message.
Illegal file name.	The specified file name is invalid. Try entering a different name.
Illegal file.	The specified file is unusable by the CK or cannot be loaded.
Incompatible USB device.	A USB device that cannot be used with the CK has been connected to the USB [TO DEVICE] terminal.
Low Battery!	The batteries are low. Replace the batteries.
MIDI buffer full.	Failed to process the MIDI data because too much data was received at one time.
MIDI checksum error.	An error occurred when receiving bulk data.
No read/write authority to the file.	Indicates that you do not have the authority to read or write to the file.
Now receiving MIDI bulk data	Indicates the CK is receiving MIDI bulk data.
Now transmitting MIDI bulk data	Indicates the CK is transmitting MIDI bulk data.
Please reboot to maintain internal memory.	Reboot the CK to restore the internal memory.
Press both [ENTER]+[MENU] buttons.	Press the [ENTER] button and the [MENU] button simultaneously to disable the panel lock.
Speaker EQ is set to [Table].	Speaker EQ has been set to Table.
Split Point does not exist.	Cannot change the <i>Split Point</i> because it has not been set.
Unsupported USB device.	This message appears when the connected USB flash drive is either unformatted, or formatted in a way that the CK does not support. Please format the USB flash drive using the CK.
USB connection terminated.	Communication with the USB flash drive has been shut down due to overcurrent to the USB flash drive. Disconnect the USB flash drive from the USB [TO DEVICE] terminal, and then reboot the CK.
USB device is full.	The USB flash drive is full and no more data can be saved. Use a new USB flash drive, or make space by erasing unwanted data from the USB flash drive.
USB device is write-protected.	This message appears when you have attempted to write to a protected USB flash drive.
USB device read/write error.	An error occurred while reading from or writing to a USB flash drive.

# **Specifications**

ltem			Details		
			СК88 СК61		
Keyboard	Туре		GHS keyboard: matte black keytops	FSB keyboard, initial touch	
	Number of Key	5	88	61	
Tone	Tone Generatio	n Technology	AWM2, AWM	(Organ Flutes)	
Generation	Polyphony (ma	x.)	1:	28	
Voices	Number of Live	Set Sounds	160 (Preset Live Set Sounds: 80)		
	Number of Voic	es	363		
	Effects	Insertion Effect		em (5 types) 36 types, 2: 36 types)	
		Delay	4 types		
		Reverb	3 ty	rpes	
		Master EQ	3-b	and	
Display	Туре		Full Dot LCD (	128 × 64 dots)	
Connectivity		OUTPUT [L/MONO]/[R] (6.3 mm, standard phone jacks, unbalanced) A/D INPUT [L/MONO]/[R] (6.3 mm, standard phone jacks) [PHONES] (6.3 mm, standard stereo phone jack) FOOT PEDAL [1]/[2] MIDI [IN]/[OUT] USB [TO HOST]/[TO DEVICE] [DC IN]			
Bluetooth	Bluetooth version 4.1		.1		
(May not have this			A2DP		
functionality	Compatible coo	lec	SBC		
depending on the country in	n		Bluetooth class 2		
which you burchased the distance		munication	about 10 m 2401–2481 MHz		
F	Radio Frequency (Operational Frequency)				
	Maximum outp	ut power (EIRP)	4 dBm		
	Type of modula	ition	FHSS		
USB audio	Sampling Frequ	iency	44.1	44.1 kHz	
interface	Channels			stereo channel) 1 stereo channel)	
Sound System	Amplifiers		6 W	/×2	
	Speakers		$(12 \text{ cm} \times 6 \text{ cm}) \times 2,$	Switchable ON/OFF	
Power Supply	Power Supply	AC adaptor	PA-150B or an equivalent recommend	led by Yamaha (Output: DC 12V, 1.5 A)	
		Batteries	Eight "AA" size alkaline (LR6) o	r Ni-MH rechargeable batteries	
	Power Consumption		11 W (When using PA-150B AC adaptor)		
	Standby Power Consumption		0.3 W		
Size/Weight	Dimensions (W	× D × H)	1333 mm × 354 mm × 148 mm (52-1/2 inch × 13-15/16 inch × 5-13/16 inch)	910 mm × 291 mm × 109 mm (35-13/16 inch × 11-7/16 inch × 4-5/16 inch	
	Weight		13.1 kg (28 lb 14 oz) (not including batteries)	5.6 kg (12 lb 6 oz) (not including batteries)	
Included Accessories		AC adaptor*, Owner's Manual *May be included depending on your locale			

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.

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.wav	See also audio file

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# ΜΕΜΟ

# Important Notice: Power management information for customers in European Economic Area (EEA), Switzerland and Turkey

# Remarque importante : Informations sur la gestion de l'alimentation pour les clients de l'Espace économique européen (EEE), de Suisse et de Turquie

Yamaha products are equipped with a power management function. Some products allow you to disable that function, or to extend the amount of time that elapses before the power is turned off or set to standby. In these cases, energy consumption will increase.	English
Yamaha-Produkte sind mit einer Power-Management-Funktion ausgestattet. Bei einigen Produkten können Sie diese Funktion ausschalten oder die Zeitdauer, die verstreicht, bis das Instrument ausgeschaltet oder in Bereitschaft versetzt wird, verlängern. In diesen Fällen erhöht sich der Energieverbrauch.	Deutsch
Les produits Yamaha sont équipés d'une fonction de gestion de l'alimentation. Certains produits vous permettent de désactiver cette fonction ou d'allonger le délai avant la mise hors tension ou la mise en veille. Dans ces cas, la consommation d'énergie augmente.	Français
Yamaha-producten zijn uitgerust met een energiebeheerfunctie. Bij sommige producten kunt u die functie uitschakelen of de tijd verlengen die verstrijkt voordat de stroom wordt uitgeschakeld of in stand-by wordt gezet. In deze gevallen zal het energieverbruik toenemen.	Nederlands
Los productos Yamaha están equipados con una función de administración de energía. Algunos productos permiten desactivar esa función o ampliar el tiempo que transcurre antes de apagar la alimentación o poner el producto en modo de espera. En estos casos, el consumo de energía aumentará.	Español
I prodotti Yamaha sono dotati di una funzione di gestione dell'alimentazione. Alcuni prodotti consentono di disattivare tale funzione o di estendere il periodo di tempo che trascorre prima che l'alimentazione venga spenta o impostata in standby. In questi casi, il consumo energetico aumenterà.	Italiano
Os produtos Yamaha são equipados com uma função de gerenciamento de energia. Alguns produtos permitem desativar essa função ou estender o tempo decorrido antes de se desligar ou entrar em standby. Nesses casos, o consumo de energia aumentará.	Português
Τα προϊόντα της Yamaha είναι εξοπλισμένα με μια λειτουργία διαχείρισης ισχύος. Ορισμένα προϊόντα σάς δίνουν τη δυνατότητα να απενεργοποιείτε αυτή τη λειτουργία ή να επεκτείνετε το χρονικό διάστημα μέχρι την απενεργοποίηση ή τη θέση σε κατάσταση αναμονής. Σε αυτές τις περιπτώσεις, η κατανάλωση ενέργειας θα αυξηθεί.	Ελληνικά
Yamaha-produkterna är utrustade med en energihanteringsfunktion. För vissa produkter kan du inaktivera den funktionen eller för att förlänga tiden som förflutit innan strömmen stängs av eller ställs i vänteläge. I dessa fall ökar energiförbrukningen.	Svenska
Yamahas produkter har en strømstyringsfunktion. På nogle produkter er det muligt at deaktivere denne funktion eller at forlænge den tid, der går, før der slukkes for strømmen, eller sættes på standby. I disse tilfælde vil strømforbruget stige.	Dansk
Yamaha-tuotteet on varustettu virranhallintatoiminnolla. Joissakin tuotteissa voit poistaa toiminnon käytöstä tai pidentää aikaa, joka kuluu ennen virran katkaisemista tai valmiustilaan asettamista. Näissä tapauksissa energiankulutus kasvaa.	Suomi
Produkty Yamaha są wyposażone w funkcję zarządzania energią. Niektóre produkty umożliwiają wyłączenie tej funkcji lub wydłużenie czasu, jaki upływa do wyłączenia zasilania lub przejścia w tryb gotowości. W takich przypadkach zużycie energii wzrośnie.	Polski
Produkty Yamaha jsou vybaveny funkcí správy napájení. Některé produkty umožňují tuto funkci zakázat nebo prodloužit dobu, která má uběhnout před vypnutím napájení nebo pohotovostním režimem. V těchto případech se zvýší spotřeba elektřiny.	Čeština
A Yamaha termékek energiamenedzsment funkcióval vannak ellátva. Egyes termékek lehetővé teszik, hogy letiltsa ezt a funkciót, vagy meghosszabbítsa a kikapcsolás vagy készenléti állapotba helyezés előtt eltelt időt. Ezekben az esetekben az energiafogyasztás növekedni fog.	Magyar
Yamaha tooted on varustatud toitehalduse funktsiooniga. Mõned tooted võimaldavad teil selle funktsiooni keelata või pikendada aega, mis möödub enne toite väljalülitamist või ooterežiimi seadmist. Sellistel juhtudel suureneb energiattarbimine.	Eesti
Yamaha izstrādājumi ir aprīkoti ar barošanas pārvaldības funkciju. Dažiem izstrādājumiem šo funkciju var atspējot vai paildzināt laiku, kam jāpaiet pirms barošanas atslēgšanas vai pāriešanas gaidstāves režīmā. Šādā gadījumā palielināsies enerģijas patēriņš.	Latviešu
"Yamaha" gaminiuose yra energijos sąnaudų valdymo funkcija. Kai kurie gaminiai leidžia išjungti šią funkciją arba pratęsti laiką, praėjusį prieš išjungiant maitinimą arba įjungiant budėjimo režimą. Tokiais atvejais energijos suvartojimas padidės.	Lietuvių
Produkty spoločnosti Yamaha sú vybavené funkciou správy napájania. Niektoré produkty vám umožňujú túto funkciu vypnúť alebo predĺžiť čas, po uplynutí ktorých sa napájanie vypne alebo nastaví do pohotovostného režimu. V takýchto prípadoch sa zvýši spotreba energie.	Slovenčina
Yamahini izdelki imajo funkcijo upravljanja z napajanjem. Nekateri izdelki vam omogočajo, da onemogočite to funkcijo ali podaljšate čas, ki mora preteči, preden se napajanje izklopi ali nastavi v stanje pripravljenosti. V teh primerih se bo poraba energije povečala.	Slovenščina
Продуктите на Yamaha са снабдени с функция за управление на захранването. Някои продукти ви позволяват да забраните тази функция или да удължите времето, което ще изтече, преди захранването да се изключи или да се настрои в режим на готовност. В тези случаи консумацията на енергия ще се увеличи.	Български
Produsele Yamaha sunt echipate cu o funcție de gestionare a energiei. Unele produse vă permit să dezactivați această funcție sau să prelungiți perioada de timp care trece înainte ca alimentarea să fie oprită sau setată în standby. În aceste cazuri, consumul de energie va crește.	Română
Yamaha proizvodi opremljeni su funkcijom upravljanja potrošnjom energije. Neki vam proizvodi omogućuju onemogućavanje te funkcije ili produljenje vremena koje protekne prije isključivanja napajanja ili postavljanja u stanje pripravnosti. U tim će se slučajevima povećati potrošnja energije.	Hrvatski
Yamaha ürünlerinde güç yönetimi işlevi vardır. Bazı ürünler, bu işlevi devre dışı bırakmanıza veya güç kapatılmadan ya da bekleme moduna alınmadan önce geçen süreyi uzatmanıza olanak tanır. Bu gibi durumlarda, enerji tüketimi artacaktır.	Türkçe

(574-M06 EU erp 01)

# ΜΕΜΟ

# ΜΕΜΟ



### Important Notice: U.S. LIMITED WARRANTY for Customers in the United States

For detailed information about this Yamaha product and warranty service, please either visit the following website address (printable file is available at our website) or contact Customer Service at the address or telephone number identified below.

### Website Address:

Yamaha.io/SynthAndStageWarranty

### **Customer Service:**

Yamaha Corporation of America 6600 Orangethorpe Avenue, Buena Park, CA 90620-1273 Telephone: 800-854-1569

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

nportant Notice: Guarantee Information for customers in EEA* and Switzerland	English
or detailed guarantee information about this Yamaha product, and Pan-EEA* and Switzerland warranty service, please either visit the website address below (Printa tour website) or contact the Yamaha representative office for your country. * EEA: European Economic Area	ble file is availa
<b>/ichtiger Hinweis: Garantie-Information für Kunden in der EWR* und der Schweiz</b> ür nähere Garantie-Information über dieses Produkt von Yamaha, sowie über den Pan-EWR*- und Schweizer Garantieservice, besuchen Sie bitte entweder die folgend angegeb eine druckfähige Version befindet sich auch auf unserer Webseite), oder wenden Sie sich an den für Ihr Land zuständigen Yamaha-Vertrieb. *EWR: Europäischer Wirtschaftsra	
emarque importante: informations de garantie pour les clients de l'EEE et la Suisse our 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, consu l'adresse ci-dessous (le fichier imprimable est disponible sur notre site Web) ou contactez directement Yamaha dans votre pays de résidence. * EEE : Espace Econ	
elangrijke mededeling: Garantie-informatie voor klanten in de EER* en Zwitserland oor gedetailleerde garantie-informatie over dit Yamaha-product en de garantieservice in heel de EER* en Zwitserland, gaat u naar de onderstaande website (u vi estand op onze website) of neemt u contact op met de vertegenwoordiging van Yamaha in uw land. * EER: Europese Economische Ruimte	Nederland
viso importante: información sobre la garantía para los clientes del EEE* y Suiza ara 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 at rchivo para imprimir esta disponible en nuestro sitio web) o póngase en contacto con el representante de Yamaha en su país. * EEE: Espacio Económico Europeo	Españo ajo (la version
vviso importante: informazioni sulla garanzia per i clienti residenti nell'EEA* e in Svizzera er 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 al i seguito (è disponibile il file in formato stampabile) oppure contattare l'ufficio di rappresentanza locale della Yamaha. * EEA: Area Economica Europea	Italiano l'indirizzo ripor
viso importante: informações sobre as garantias para clientes da AEE* e da Suíça ara 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 pa isponível no nosso site) ou entre em contato com o escritório de representação da Yamaha no seu país. * AEE: Área Econômica Européia	Portuguê ra impressão e
ημαντική σημείωση: Πληροφορίες εγγύησης για τους πελάτες στον ΕΟΧ* και Ελβετία ια λεπτομερείς πληροφορίες εγγύησης σχετικά με το παρόν προϊόν της Yamaha και την κάλυψη εγγύησης σε όλες τις χώρες του ΕΟΧ και την Ελβετία, επισκεφτι ποσελίδα (Εκτυπώσιμη μορφή είναι διαθέσιμη στην ιστοσελίδα μας) ή απευθυνθείτε στην αντιπροσωπεία της Yamaha στη χώρα σας. * ΕΟΧ: Ευρωπαϊκός Οικονομικό	
iktigt: Garantiinformation för kunder i EES-området* och Schweiz ör detaljerad information om denna Yamahaprodukt samt garantiservice i hela EES-området* och Schweiz kan du antingen besöka nedanstående webbaddress (e nns på webbplatsen) eller kontakta Yamahas officiella representant i ditt land. * EES: Europeiska Ekonomiska Samarbetsområdet	Svenska
iktig merknad: Garantiinformasjon for kunder i EØS* og Sveits etaljert garantiinformasjon om dette Yamaha-produktet og garantiservice for hele EØS-området* og Sveits kan fås enten ved å besøke nettadressen nedenfor (utsl å våre nettsider) eller kontakte kontakte Yamaha-kontoret i landet der du bor. *EØS: Det europeiske økonomiske samarbeidsområdet	Norsk kriftsversjon fin
igtig oplysning: Garantioplysninger til kunder i EØO* og Schweiz e kan finde detaljerede garantioplysninger om dette Yamaha-produkt og den fælles garantiserviceordning for EØO* (og Schweiz) ved at besøge det websted, der er an ndes en fil, som kan udskrives, på vores websted), eller ved at kontakte Yamahas nationale repræsentationskontor i det land, hvor De bor. * EØO: Det Europæiske Øko	
ärkeä ilmoitus: Takuutiedot Euroopan talousalueen (ETA)* ja Sveitsin asiakkaille ämän Yamaha-tuotteen sekä ETA-alueen ja Sveitsin takuuta koskevat yksityiskohtaiset tiedot saatte alla olevasta nettiosoitteesta. (Tulostettava tiedosto saataviss oitte myös ottaa yhteyttä paikalliseen Yamaha-edustajaan. *ETA: Euroopan talousalue	Suomi
Jażne: Warunki gwarancyjne obowiązujące w EOG* i Szwajcarii by dowiedzieć się więcej na temat warunków gwarancyjnych tego produktu firmy Yamaha i serwisu gwarancyjnego w całym EOG* i Szwajcarii, należy odwiedzić wskazaną poniże Plik gotowy do wydruku znajduje się na naszej stronie internetowej) lub skontaktować się z przedstawicielstwem firmy Yamaha w swoim kraju. * EOG — Europejski Obszar Go	
ůležité oznámení: Záruční informace pro zákazníky v EHS* a ve Švýcarsku odrobné 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 c rebových stránkách) nebo se můžete obrátit na zastoupení firmy Yamaha ve své zemi. * EHS: Evropský hospodářský prostor	Česky lostupný na na
ontos figyelmeztetés: Garancia-információk az EGT* területén és Svájcban élő vásárlók számára jelen Yamaha termékre vonatkozó részletes garancia-információk, valamint az EGT*-re és Svájcra kiterjedő garanciális szolgáltatás tekintetében keresse fel webh men (a webhelyen nyomtatható fájlt is talál), vagy pedig lépjen kapcsolatba az országában működő Yamaha képviseleti irodával. * EGT: Európai Gazdasági Térsér	
luline märkus: Garantiiteave Euroopa Majanduspiirkonna (EMP)* ja Šveitsi klientidele äpsema teabe saamiseks selle Yamaha toote garantii ning kogu Euroopa Majanduspiirkonna ja Šveitsi garantiiteeninduse kohta, külastage palun veebisaiti alljärgnev aidil on saadaval prinditav fail) või pöörduge Teie regiooni Yamaha esinduse poole. * EMP: Euroopa Majanduspiirkond	Eesti ke /al aadressil (r
varīgs paziņojums: garantijas informācija klientiem EEZ* un Šveicē ai saņemtu detalizētu garantijas informāciju par šo Yamaha produktu, kā arī garantijas apkalpošanu EEZ* un Šveicē, lūdzu, apmeklējiet zemāk norādīto tīmekļa vietr eitnē ir pieejams drukājams fails) vai sazinieties ar jūsu valsti apkalpojošo Yamaha pārstāvniecību. * EEZ: Eiropas Ekonomikas zona	Latvieš nes adresi (tīm
<b>ėmesio: informacija dėl garantijos pirkėjams EEE* ir Šveicarijoje</b> ei reikia išsamios informacijos apie šį "Yamaha" produktą ir jo techninę priežiūrą visoje EEE* ir Šveicarijoje, apsilankykite mūsų svetainėje toliau nurodytu adre pausdintinas failas) arba kreipkitės į "Yamaha" atstovybę savo šaliai. *EEE – Europos ekonominė erdvė	Lietuvių k su (svetainėje
ôležité upozornenie: Informácie o záruke pre zákazníkov v EHP* a Švajčiarsku odrobné informácie o záruke týkajúce sa tohto produktu od spoločnosti Yamaha a garančnom servise v EHP* a Švajčiarsku nájdete na webovej stránke uveden ebovej stránke je k dispozícii súbor na tlač) alebo sa obráťte na zástupcu spoločnosti Yamaha vo svojej krajine. * EHP: Európsky hospodársky priestor	Slovenči ej nižšie (na n
omembno obvestilo: Informacije o garanciji za kupce v EGP* in Švici a podrobnejše informacije o tem Yamahinem izdelku ter garancijskem servisu v celotnem EGP in Švici, obiščite spletno mesto, ki je navedeno spodaj (natisljiva dato ašem spletnem mestu), ali se obrnite na Yamahinega predstavnika v svoji državi. * EGP: Evropski gospodarski prostor	Slovenšč teka je na volj
ажно съобщение: Информация за гаранцията за клиенти в ЕИП* и Швейцария а подробна информация за гаранцията за този продукт на Yamaha и гаранционното обслужване в паневропейската зона на ЕИП* и Швейцария или посетете посо айт (на нашия уеб сайт има файл за печат), или се свържете с представителния офис на Yamaha във вашата страна. * ЕИП: Европейско икономическо пространс	
otificare importantă: Informații despre garanție pentru clienții din SEE* și Elveția entru 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 disponib au contactați biroul reprezentanței Yamaha din țara dumneavoastră. * SEE: Spațiul Economic European	Limba rom il pe site-ul nos
ažna obavijest: Informacije o jamstvu za države EGP-a i Švicarske a detaljne informacije o jamstvu za ovaj Yamahin proizvod te jamstvenom servisu za cijeli EGP i Švicarsku, molimo Vas da posjetite web-stranicu navedenu u nasta vlaštenog Yamahinog dobavljača u svojoj zemlji. * EGP: Europski gospodarski prostor	Hrvatsk vku ili kontakti

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

# Yamaha Worldwide Representative Offices

#### English

For details on the product(s), contact your nearest Yamaha representative or the authorized distributor, found by accessing the 2D barcode below.

#### Deutsch

Wenden Sie sich für nähere Informationen zu Produkten an eine Yamaha-Vertretung oder einen autorisierten Händler in Ihrer Nähe. Diese finden Sie mithilfe des unten abgebildeten 2D-Strichodes.

#### Français

votre représentant ou revendeur agréé Yamaha le plus proche. Vous le trouverez à l'aide du code-barres 2D ci-dessous.

#### Español

Para ver información detallada sobre el producto, contacte con su representante o distribuidor autorizado Yamaha más cercano. Lo encontrará escaneando el siguiente código de barras 2D.

#### Português

Para mais informações sobre o(s) produto(s), fale com seu representante da Yamaha mais próximo ou com o distribuidor autorizado acessando o código de barras 2D abaixo.

#### Italiano

Per dettagli sui prodotti, contattare il rappresentante Yamaha o il distributore autorizzato più vicino, che è possibile trovare tramite il codice a barre 2D in basso.

#### Nederlands

Neem voor meer informatie over de producten contact op met uw dichtstbijzijnde Yamaha-vertegenwoordiger of de geautoriseerde distributeur, te vinden via de onderstaande 2D-barcode.

#### Polski

Aby uzyskać szczegółowe informacje na temat produktów, skontaktuj się z najbliższym przedstawicielem firmy Yamaha lub autoryzowanym dystrybutorem, którego znajdziesz za pośrednictwem poniższego kodu kreskowego 2D.

#### Русский

Чтобы узнать подробнее о продукте (продуктах), свяжитесь с ближайшим представителем или авторизованным дистрибьютором Yamaha, воспользовавшись двухмерным штрихкодом ниже.

#### Dansk

Hvis du vil have detaljer om produktet/produkterne, kan du kontakte den nærmeste Yamaha-repræsentant eller autoriserede Yamaha-distributør, som du finder ved at scanne 2D-stregkode nedenfor.

#### Svenska

Om du vill ha mer information om produkterna kan du kontakta närmaste Yamaha-representant eller auktoriserade distributör med hjälp av 2D-streckkoden nedan.



https://manual.yamaha.com/mi/address list/

### Magyar Pour obtenir des informations sur le ou les produits, contactez

A termék(ek)re vonatkozó részletekért forduljon a legközelebbi Yamaha képviselethez vagy a hivatalos forgalmazóhoz, amelyet az alábbi 2D vonalkód segítségével találhat meg

Podrobnosti o produktu(ech) získáte od nejbližšího zástupce

Podrobné informácie o produkte(-och) vám poskytne najbližší zástupca spoločnosti Yamaha alebo autorizovaný distribútor,

ktorého nájdete pomocou nižšie uvedeného 2D čiarového kódu.

nalezen při použití 2D čárového kódu níže.

společnosti Yamaha nebo autorizovaného distributora, který byl

### Slovenščina

Čeština

Slovenčina

Če želite podrobnejše informacije o izdelkih, se obrnite na najbližjega Yamahinega predstavnika ali pooblaščenega distributerja, ki ga najdete prek 2D-kode v nadaljevanju.

#### Български

За подробности относно продукта/ите се свържете с най-близкия представител на Yamaha или оторизиран дистрибутор, който можете да откриете, като използвате 2D баркода по-долу.

#### Română

Pentru detalii privind produsele, contactați cel mai apropiat reprezentant Yamaha sau distribuitorul autorizat, pe care îl puteți găsi accesând codul de bare 2D de mai jos.

#### Latviešu

Lai iegūtu plašāku informāciju par izstrādājumiem, sazinieties ar tuvāko Yamaha pārstāvi vai pilnvaroto izplatītāju, kuru atradīsiet, izmantojot tālāk pieejamo 2D svītrkodu.

#### Lietuvių

Norėdami gauti daugiau informacijos apie gaminį (-ius), kreipkitės į artimiausią "Yamaha" atstovą arba įgaliotąjį platintoją, kurį rasite nuskaitę toliau pateiktą 2D brūkšninį kodą.

#### Eesti

Toodete kohta täpsema teabe saamiseks võtke ühendust lähima Yamaha esindaja või autoriseeritud levitajaga, kelle leiate allpool asuva 2D-vöötkoodi kaudu.

#### Hrvatski

Za detalje o proizvodima obratite se lokalnom predstavku ili ovlaštenom distributeru tvrtke Yamaha, kojeg možete pronaći skeniranjem 2D crtičnog koda u nastavku.

#### Türkçe

Ürünler hakkında ayrıntılar için, aşağıdaki 2D kodlu motora erişerek bulunan size en yakın Yamaha temsilcisine veya yetkili bayiye başvurun.

Head Office/Manufacturer: Yamaha Corporation 10-1, Nakazawa-cho, Chuo-ku, Hamamatsu, 430-8650, Japan Importer (European Union): Yamaha Music Europe GmbH Siemensstrasse 22-34, 25462 Rellingen, Germany Importer (United Kingdom): Yamaha Music Europe GmbH (UK) Sherbourne Drive, Tilbrook, Milton Keynes, MK7 8BL, United Kingdom

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Published 04/2025 MWMA-E0





VJG0290