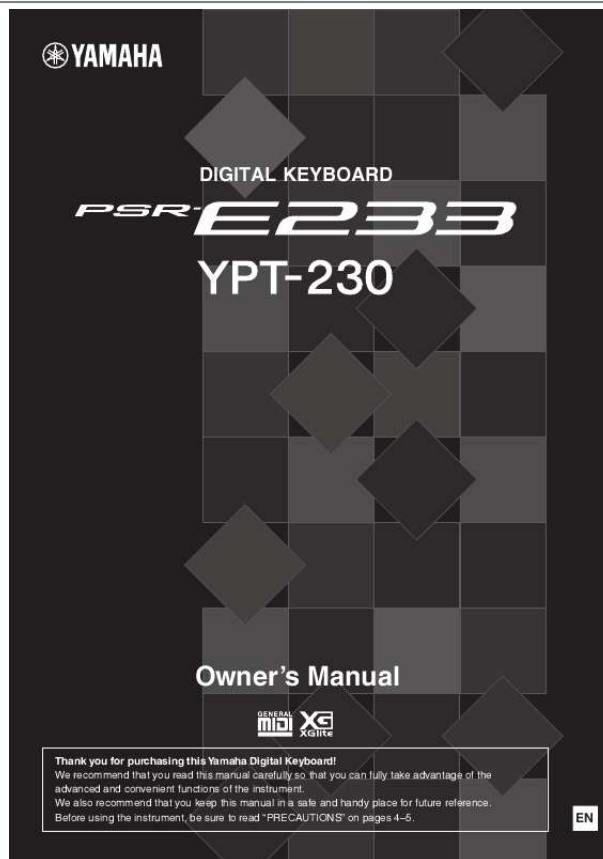




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You can read the recommendations in the user guide, the technical guide or the installation guide for YAMAHA YPT-230. You'll find the answers to all your questions on the YAMAHA YPT-230 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual YAMAHA YPT-230
User guide YAMAHA YPT-230
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Manual abstract:

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NOTE: The smaller the AWG number, the larger the current handling capacity. For longer extension cords, consult a local electrician. This product should be used only with the components supplied or; a cart, rack, or stand that is recommended by Yamaha. If a cart, etc., is used, please observe all safety markings and instructions that accompany the accessory product. Battery Notice: This product MAY contain a small non-rechargeable battery which (if applicable) is soldered in place. The average life span of this type of battery is approximately five years. When replacement becomes necessary, contact a qualified service representative to perform the replacement. This product may also use "household" type batteries. Some of these may be rechargeable. Make sure that the battery being charged is a rechargeable type and that the charger is intended for the battery being charged. When installing batteries, never mix old batteries with new ones, and never mix different types of batteries. Batteries MUST be installed correctly. Mismatches or incorrect installation may result in overheating and battery case rupture. Warning: Do not attempt to disassemble, or incinerate any battery.

Keep all batteries away from children. Dispose of used batteries promptly and as regulated by the laws in your area. Note: Check with any retailer of household type batteries in your area for battery disposal information. Disposal Notice: Should this product become damaged beyond repair, or for some reason its useful life is considered to be at an end, please observe all local, state, and federal regulations that relate to the disposal of products that contain lead, batteries, plastics, etc.



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If your dealer is unable to assist you, please contact Yamaha directly.

SPECIFICATIONS SUBJECT TO CHANGE: The information contained in this manual is believed to be correct at the time of printing. However, Yamaha reserves the right to change or modify any of the specifications without notice or obligation to update existing units. This product, either alone or in combination with an amplifier and headphones or speaker/s, may be capable of producing sound levels that could cause permanent hearing loss. **DO NOT** operate for long periods of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist. **IMPORTANT:** The louder the sound, the shorter the time period before damage occurs. Some Yamaha products may have benches and / or accessory mounting fixtures that are either supplied with the product or as optional accessories. Some of these items are designed to be dealer assembled or installed. Please make sure that benches are stable and any optional fixtures (where applicable) are well secured **BEFORE** using. Benches supplied by Yamaha are designed for seating only.

No other uses are recommended. **NAME PLATE LOCATION:** The name plate is located on the bottom of the product. The model number, serial number, power requirements, etc., are located on this plate. You should record the model number, serial number, and the date of purchase in the spaces provided below and retain this manual as a permanent record of your purchase. **Model NOTICE:** Service charges incurred due to a lack of knowledge relating to how a function or effect works (when the unit is operating as designed) are not covered by the manufacturer's warranty, and are therefore the owners responsibility. Please study this manual carefully and consult your dealer before requesting service. Serial No. **ENVIRONMENTAL ISSUES:** Yamaha strives to produce products that are both user safe and environmentally friendly. We sincerely believe that our products and the production methods used to produce them, meet these goals.

In keeping with both the letter and the spirit of the law, we want you to be aware of the following: Purchase Date 92-BP (bottom) **PLEASE KEEP THIS MANUAL 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 * This applies only to products distributed by YAMAHA CORPORATION OF AMERICA. not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON" please try to eliminate the problem by using one of the following measures: Relocate either this product or the device that is being affected by the interference. Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s. In the case of radio or TV interference, relocate/reorient the antenna.

If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to co-axial type cable. If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Corporation of America, Electronic Service Division, 6600 Orangethorpe Ave, Buena Park, CA90620 The above statements apply **ONLY** to those products distributed by Yamahautions include, but are not limited to, the following: Power supply/AC power adaptor · Do not connect the instrument to an electrical outlet using a multiple-connector. Doing so can result in lower sound quality, or possibly cause overheating in the outlet. · When removing the electric plug from the instrument or an outlet, always hold the plug itself and not the cord. Pulling by the cord can damage it. · Remove the electric plug from the outlet when the instrument is not to be used for extended periods of time, or during electricles, MIDI files, WAVE data, musical scores and sound recordings. Any unauthorized use of such programs and contents outside of personal use is not permitted under relevant laws. Any violation of copyright has legal consequences. **DON'T MAKE, DISTRIBUTE OR USE ILLEGAL COPIES.**

About functions/data bundled with the instrument · Some of the preset songs have been edited for length or arrangement, and may not be exactly the same as the original. About this manual · The illustrations and LCD screens as shown in this manual are for instructional purposes only, and may appear somewhat different from those on your instrument. · The company names and product names in this manual are the trademarks or registered trademarks of their respective companies. DMI-3 2/2 PSR-E233/YPT-230 Owner's Manual 5 About the Manuals This instrument has the following documents and instructional materials. Included Documents Owner's Manual (this book) Online Materials (Downloadable from the web) The following instructional materials are available for downloading from the Yamaha website.

Yamaha Manual Library <http://www.yamaha.co.jp/manual/> Access the Yamaha Manual Library, then enter your model name (PSR-E233, for example) in the Model Name area to search the manuals. MIDI Data Format This document contains both the MIDI Data Format and the MIDI Implementation Chart. MIDI Basics (only in English, French, German and Spanish) If you want to know more about MIDI and how to use it, refer to this introductory book. Yamaha Online Member <https://member.yamaha.com/myproduct/regist/> You can refer to the music score in the Song Book (free downloadable scores). To obtain the Song Book, complete the user registration at the above website. Song book (only in English, French, German and Spanish) Logos GM System Level 1 "GM System Level 1" is an addition to the MIDI standard which ensures that any GM-compatible music data can be accurately played by any GMcompatible tone generator, regardless of manufacturer.



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The GM mark is affixed to all software and hardware products that support GM System Level. XGlite As its name implies, "XGlite" is a simplified version of Yamaha's high-quality XG tone generation format. Naturally, you can play back any XG song data using an XGlite tone generator. However, keep in mind that some songs may play back differently compared to the original data, due to the reduced set of control parameters and effects.

Supplied Accessories · Owner's manual (this book) · Music rest · AC Power Adaptor * May not be included depending on your particular area. Please check with your Yamaha dealer. Using the music rest Insert the music rest into the slots as shown. · My Yamaha Product User Registration * The PRODUCT ID on the sheet will be needed when you fill out the User Registration form. 6 PSR-E233/YPT-230 Owner's Manual Contents About the Manuals.....

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systems. The Master equalizer (EQ) can be set in the Function settings (page 29 Function 013). CAUTION · Avoid listening with the headphones at high volume for long periods of time; doing so may not only result in ear fatigue, it may be damaging to your hearing.

Auto Power Off function To prevent unnecessary power consumption, this instrument features an Auto Power Off function that automatically turns the power off if the instrument is not used for approximately 30 minutes. To disable the Auto Power Off function While holding down the lowest key, press the [] (Standby/On) switch to turn on the power. Alternately select "Off" in the Function settings (page 30 Function 024). CAUTION · To prevent damage to the speakers, set the volume of the external devices at the minimum setting and turn power off the devices before connecting them. Failure to observe these precautions may result in electric shock or equipment damage.



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... page 27 [SONG] button

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.. pages 12, 22 [VOICE] button ...

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..... page 12 [FUNCTION] button ..

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.. page 28 [DEMO/BGM] button

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.... page 23 Front Panel u i o !0 !1 !2 !3 !4 q e w r t In the Song mode !5 !6 !7 !8 [A-B REPEAT] button

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page 26 [REW] button

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..... page 22 [FF] button .

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range of indicators that show the on/off status for various functions.

Notation Displays the melody and chord notes of a Song when the Song lesson function is in use, or the notes of chords you specify when the Dictionary function is in use. At other times the notes you play on the keyboard are displayed. *NOTE SONG/VOICE/STYLE* Indicate the operating condition of the instrument (page 12). Any notes occurring below or above the staff are indicated by "8va" in the notation. For a few specific chords, not all notes may be shown in the notation section of the display.

This is due to space limitations in the display. *ULTRA-WIDE STEREO* Appears when *ULTRA-WIDE STEREO* is on (page 15). *ACMP ON* Appears when the auto accompaniment is on (page 17). *001 GrandPno 003 Chord Display* Indicates the name of the chord currently being played back, or the name of the chord being played on the keyboard. *Function* Indicates the Function number when the Function is in use. *Song track display* Information related to the Song tracks is shown here. (See page 26.) *Lit*: Track contains data *Unlit*: Track is muted or contains no data *027 Keyboard Display* Indicates notes currently being played. Indicates the melody and chord notes of a Song when the Song lesson function is in use. Also indicates the notes of a chord--either when playing a chord or when using the Dictionary function.

Measure Indicates the current measure during playback of a Song. *Beat Display* Indicates the beat of the current Style or Song with flashing arrows. *003 PSR-E233/YPT-230 Owner's Manual 13 Reference Try Playing a Variety of Instrument Voices* This instrument features a variety of realistic, built-in voices. The grand piano Voice is automatically selected whenever the power is turned on, but you can easily change this to guitar, drums, or any of an extensive range of voices. *Voice 001 GrandPno 001 Percussion and drum icons Grand Piano Voice SOUND EFFECT Ultra-Wide Stereo Select and Play a Voice Press the [VOICE] button and then select the desired Voice, referring to the section "Basic Operation" on page 12 for instructions. Refer to the Voice List on page 33. Voice number 001 GrandPno 001 Voice name* The Voice shown here becomes the Main Voice for the instrument. *Preset Voice Types 001139 140152 (Drum Kit) 153385 Instrument Voices* Various drum and percussion sounds are assigned to individual keys, from which they can be played. Details on the instruments and key assignments of each Drum Kit can be found in the Drum Kit List on page 37.



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The songs in the group selected play in sequence. You can stop playback at any time by pressing the [DEMO] or [START/STOP] button. · You can select a song by using the [+] button after pressing the [DEMO/BGM] button.

The [-] button can be used to go back to the beginning of the selected song. Random Song Playback The Random Play mode causes the songs in the group selected for BGM playback to be played back in random order. (Demo group Songs [Preset Songs 001003] cannot be played at random.) The setting of the Random Play mode can be set in the Function settings (page 30 Function 022). PSR-E233/YPT-230 Owner's Manual 23 Using the Lesson Feature Song Lesson You can select any Song you like and use it for a left-hand, right-hand, or both-hands lesson. @@@@The Song pauses until you play the right note. Song playback tempo will vary to match the speed you are playing at. @@For instructions on how to select a Song, see page 12. Select the part you want to practice. @@@@Song numbers: 001 Left Right Both-hands lesson BothHand 3 Select the Lesson mode.

Press any one of the [1 LISTEN & LEARN], [2 TIMING] or [3 WAITING] buttons. Refer to the Lesson modes on page 24. NOTE · When the melody Voice of the Song is changed, the key position shown in the display may be shifted (in octave units), depending on the Voice selected. NOTE · You can select Lessons 1-3 by pressing the [LISTEN & LEARN], [TIMING] and [WAITING] buttons, respectively. 4 5 Start Lesson. Song playback will begin automatically when you select the Lesson mode, and the appropriate notes appear in the display. Stop the Lesson mode. You can stop the Lesson mode at any time by pressing the [START/STOP] button. NOTE · The Split Point is fixed and it cannot be changed. For the left-hand lesson, it is fixed at 59 or B2; for the left-hand chord lesson, it is fixed at 54 or F# 2.

NOTE Grade When the Lesson Song has played all the way through in Lesson mode "2 Timing" or "3 Waiting," your performance will be evaluated in four levels: OK, Good, Very Good, or Excellent. · Regardless of how strongly you play the keys, the level of the sound does not change. As a result, your performance may not sound exactly like the model or example, depending on the selected song. PSR-E233/YPT-230 Owner's Manual 25 Using the Lesson Feature A-B Repeat This function lets you specify a section of a Song--"A" is the start point and "B" is the end point--for repeat playback. A B Repeat playback of this section Play the Song and press the [A-B REPEAT] button at the beginning of the section you want to repeat (the "A" point), then press the [A-B REPEAT] button a second time at the end of the section you want to repeat (the "B" point).

The specified A-B section of the Song will now play repeatedly. NOTE · The repeat start and end points can be specified in one-measure increments. · You can also set the A-B Repeat function when the Song is stopped. Simply use the [REW] and [FF] buttons to select the desired measures, pressing the [A-B REPEAT] button for each point, then start playback. · If you want to set the start point "A" at the very beginning of the Song press the [A-B REPEAT] button before starting playback of the Song.

A-b REPEAT You can stop repeat playback at any time by pressing the [A-B REPEAT] button. An "oFF REPEAT" message appears on the display. The A-B REPEAT mode will be canceled and normal playback of the Song will continue. NOTE · The A-B Repeat function will be canceled when you select another Song mode. Mute The Song is made up by several tracks. You can mute Track 1 or Track 2 during Song playback. You can turn the left- and right-hand parts on or off as desired, allowing you to listen to the corresponding part (the part that is turned on), or practice the corresponding part (the part that is turned off) on the keyboard. · Track 1 can be muted by pressing the [R] button during Song playback. · Track 2 or style track can be muted by pressing the [L] button during Song playback. You can cancel the mute function by pressing the corresponding track buttons, [R] or [L] again during Song playback, or by selecting any other Song.

001 Demo 1 010 Pressing one of the Track buttons [R] or [L] will mute the corresponding track during Song playback. Lit: Track contains data. Unlit: Track is muted or contains no data. 26 PSR-E233/YPT-230 Owner's Manual Using the Lesson Feature Using the Metronome The instrument features a built-in metronome (a device that keeps an accurate tempo) that is convenient for practicing. Press the [METRONOME] button to start the metronome. NOTE To stop the metronome, press the [METRONOME] button again. · You can set the time signature and the volume of the Metronome (page 29 Function 018019). SHORTCUT You can jump directly to the Function settings by pressing and holding the [METRONOME] button for longer than a second. You can adjust the metronome tempo by pressing the [TEMPO/TAP] button (see next section). NOTE · The metronome time signature will synchronize to a style or song that is playing, so these parameters cannot be changed while a style or song is playing.

Changing the Tempo Songs and Styles can be played at any tempo you desire--fast or slow. 1 Press the [TEMPO/TAP] button to call up the Tempo setting in the display. Current Tempo value 070 Tempo NOTE 2 Set the Tempo by using the number buttons [0][9], [+], [-]. · Press the [+] and [-] buttons simultaneously to instantly reset the value to the default tempo. Tap Start You can supply a count-in at any tempo you like to start playback. Simply tap the [TEMPO/TAP] button at any tempo--four times for time signatures in 4, and three times for time signatures in 3--and the selected Song and Style rhythm will begin playing at the tapped tempo. NOTE · In the case of a Style, the selected Style rhythm will begin playing at first. The bass and chords will begin playing as soon as you play a chord in the auto accompaniment range of the keyboard (when auto accompaniment is on). You can change the tempo during Song or Style playback by pressing the button just twice. PSR-E233/YPT-230 Owner's Manual 27 Function Settings The [FUNCTION] button gives you access to a variety of operations related to adjusting or enhancing the sound and making settings for connection to external devices. For more about the available functions, see the following Function Setting List. Select the item and change the value 1 Press the [FUNCTION] button a number of times until the desired item appears. Each time the [FUNCTION] button is pressed, the Function number increases one by one. You can also decrease the Function number by one when you press the [-] button briefly while holding down the [FUNCTION] button.



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Value Function item NOTE · The Function number will not appear in the display during Song, Style or metronome playback. The measure will appear instead. 100 StyleVol 001 Function number If the Function includes sub-modes, the Function item appears in the display for a few seconds, and the sub-modes will be displayed. 2 Set the value by using the number buttons [0][9], [+], [-]. NOTE · Any settings will be restored to the factory default settings when the power is turned off. Direct numeric entry.

· To exit the Function settings, press one of these buttons; [SONG], [VOICE],[STYLE] or [GRAND PIANO]. · Decrement value by 1. · No · Off Press simultaneously to recall the default setting. · Increment value by 1. · Yes · On 28 PSR-E233/YPT-230 Owner's Manual Function Settings Function Setting List No. Volume 001 002 Style Volume Song Volume StyleVol 000127 SongVol 000127 100 100 Determines the volume of the Style. Determines the volume of the Song. Determines the pitch of the instrument in semitone increments. NOTE: The pitch of the Drum Kits Voices cannot be changed. Determines the fine tuning of the pitch of the entire instrument in approx.

0.2Hz increments. NOTE: The pitch of the Drum Kits Voices cannot be changed. Sets the Split "point"--in other words, the key that separates the auto accompaniment range and Main voice. Determines the volume of the Main Voice to adjust the balance between Song playback and the notes you play on the keyboard.

Determines the octave range for the Main Voice. Determines how much of the Main Voice's signal is sent to the Chorus effect. Determines the Reverb type, including off (10). Refer to the Reverb Type list on page 41. Determines how much of the Voice's signal is sent to the Reverb effect. Determines the Chorus type, including off (05). Refer to the Chorus Type list on page 41. Determines whether or not Panel Sustain is always applied to the Main Voices. Panel Sustain is applied continuously when ON, or not applied when OFF. Sets the equalizer applied to the speaker output for optimum sound in different listening situations. Speaker: For listening via the instrument's built-in speakers. Flat: For headphones, or for listening via external speakers. Determines the Ultra-Wide Stereo type. Higher values produce a greater Wide effect. Determines whether the instrument's keyboard controls the internal tone generator (ON) or not (OFF).

On Both the notes played on the instrument's keyboard and data received via the instrument's MIDI terminal will be played by the internal tone generator. Off With this setting, the instrument itself produces no sound, but the performance data is transmitted via the MIDI terminal. Data received via the instrument's MIDI terminal will also be played by the internal tone generator. Determines whether the instrument synchronizes to the internal clock (OFF) or an external clock (ON). Lets you send the data of the panel settings to a computer. Use the [+] button to transmit the data. Determines the time signature of the Metronome. A chime will sound on the first beat of each measure while the other beats will click. All beats will simply click with no chime at the beginning of each measure if you set this parameter to "00". Determines the volume of the Metronome.

Item Display Range/ settings Default setting Description Overall 003 Transpose Transpos -120012 Tuning SplitPnt 427.0453.0 (Hz) 000127 (C-2G8) 00 004 Tuning 440.0 (Hz) 005 Split Point 54 (F#2) Main Voice 006 007 008 Effect 009 010 011 Reverb Type Reverb Level Chorus Type Reverb 0110 ** 64 ** Main Voice Volume Main Voice Octave Main Voice Chorus Send Level M.Volume 000127 M.

Octave -202 M.Chorus 000127 * * * RevLevel 000127 Chorus Sustain 15 012 Panel Sustain ON/OFF OFF 013 Master EQ Type 1 Speaker MasterEQ 2 Flat Wide 1 Speaker 014 MIDI Wide Type 13 2 015 Local On/Off Local ON/OFF ON 016 017 External Clock Initial Setup Send ExtClock ON/OFF InitSend YES/NO OFF Metronome TimeSig 018 Time Signature 0015 * * 019 Metronome Volume MetroVol 000127 100 PSR-E233/YPT-230 Owner's Manual 29 Function Settings No. Lesson 020 Demo Item Display Range/ settings Default setting Description Your Tempo YourTemp ON/OFF ON Determines whether the song playback tempo matches the speed at which you are playing (ON) or not (OFF), when using the "Waiting" Lesson mode. 021 Demo Group DemoGrp 1 DEMO 2 Preset 3 User 4 Download 1 Normal 2 Random 1 DEMO Determines the repeat playback group. 022 Demo Play Mode PlayMode 1 Normal Determines the repeat playback mode.

Determines whether Demo cancel is enabled or not. When this is set to ON, the Demo Song will not play, even if the [DEMO/ BGM] button is pressed. Determines whether the Auto Power Off function is on or off. When this is set to ON, the instrument automatically turns the power off if the instrument is not used for approximately 30 minutes. 023 Demo Cancel D-Cancel ON/OFF OFF Power Save AutoOff 024 Auto Power Off ON/OFF ON * Different for each voice combination. ** Different for each Song or Style combination. 30 PSR-E233/YPT-230 Owner's Manual About MIDI The instrument features a MIDI terminals that can be connected to other MIDI instruments and devices for expanded musical functionality. What is MIDI? MIDI (Musical Instrument Digital Interface) is a world-standard interface for communication between electronic musical instruments and music devices. When MIDI-equipped instruments are connected via a MIDI cable, it becomes possible to transfer performance and setting data between them for significantly enhanced performance and production potential. CAUTION · Connect the instrument to external equipment only after turning off power for all devices.

Then, turn on the power, first to the instrument, then to the connected external equipment. Reverse this order when you turn the power off. NOTE · MIDI cables (sold separately) must be used for connecting to MIDI devices. They can be bought at music stores, etc. Transferring Performance Data To and From Another Instrument By connecting the instrument to other MIDI devices or a computer, the performance data of the instrument can be used on those other MIDI devices or computer, and also the performance data from other MIDI devices and computer can be received and sounded with the instrument. A Yamaha UX16 or similar USB-MIDI interface (sold separately) will be necessary for MIDI connection between the instrument and a USB-equipped computer. Make sure to purchase a Yamaha UX16 or a quality USB-MIDI interface at a musical instrument store, computer store or electrical appliance store.



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