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You can read the recommendations in the user guide, the technical guide or the installation guide for CASIO CTK-700. You'll find the answers to all your questions on the CASIO CTK-700 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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ES

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USER'S GUIDE
GUÍA DEL USUARIO



CTK496/700ES1A

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Manual abstract:

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: · Reorient or relocate the receiving antenna. · Increase the separation between the equipment and receiver. · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. · Consult the dealer or an experienced radio/TV technician for help. FCC WARNING Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Important! Please note the following important information before using this product. @@@@Never let children use an AC adaptor that is seriously damaged. · Never attempt to recharge batteries. · Do not use rechargeable batteries. · Never mix old batteries with new ones.

· Use recommended batteries or equivalent types. @@@@ · Do not short-circuit the battery terminals. · The product is not intended for children under 3 years. · Use only CASIO AD-5 adaptor. · The AC adaptor is not a toy.

· Be sure to disconnect the AC adaptor before cleaning the product. This mark applies in EU countries only. CASIO Europe GmbH Bornbarch 10, 22848 Norderstedt, Germany 627A-E-002B Safety Precautions Congratulations on your selection of the CASIO electronic musical instrument. · Before using the instrument, be sure to carefully read through the instructions contained in this manual. · Please keep all information for future reference.

Symbol Examples This triangle symbol () means that the user should be careful. (The example at left indicates electrical shock caution.) This circle with a line through it () means that the indicated action must not be performed. Indications within or nearby this symbol are specifically prohibited. (The example at left indicates that disassembly is prohibited.) The black dot () means that the indicated action must be performed. Indications within this symbol are actions that are specifically instructed to be performed. (The example at left indicates that the power plug must be unplugged from the electrical socket.) Symbols Various symbols are used in this user's guide and on the product itself to ensure that the product is used safely and correctly, and to prevent injury to the user and other persons as well as damage to property. Those symbols along with their meanings are shown below.

DANGER This symbol indicates information that, if ignored or applied incorrectly, creates the danger of death or serious personal injury. **WARNING** This indication stipulates matters that have the risk of causing death or serious injury if the product is operated incorrectly while ignoring this indication.

CAUTION This indication stipulates matters that have the risk of causing injury as well as matters for which there is the likelihood of occurrence of physical damage only if the product is operated incorrectly while ignoring this indication. 627A-E-003A E-1 Safety Precautions **DANGER** Alkaline Batteries Perform the following steps immediately if fluid leaking from alkaline batteries ever gets into your eyes. 1. Do not rub your eyes! Rinse them with water. 2. Contact your physician immediately. Leaving alkaline battery fluid in your eyes can lead to loss of sight. **G** Never touch the AC adaptor while your hands are wet. Doing so creates the risk of electric shock. **G** Use the AC adaptor where it will not be splashed with water. Water creates the risk of fire and electric shock. **G** Do not place a vase or any other container filled with liquid on top of the AC adaptor. Water creates the risk of fire and electric shock.

Batteries Misuse of batteries can cause them to leak, resulting in damage to nearby objects, or to explode, creating the risk of fire and personal injury. Always make sure you observe the following precautions. · Never try to take batteries apart or allow them to become shorted. · Never expose batteries to heat or dispose of them by incineration. · Never mix old batteries with new ones.

· Never mix batteries of different types. · Do not charge the batteries. · Make sure the positive (+) and negative (-) ends of the batteries are facing correctly. Do not incinerate the product. Never throw the product into fire. Doing so can cause it to explode, creating the risk of fire and personal injury. Water and Foreign Matter Water, other liquids, and foreign matter (such as pieces of metal) getting into the product create the risk of fire and electric shock. Take the following steps immediately. 1. Turn off power.

2. If you are using the AC adaptor for power, unplug it from the wall outlet. 3. Contact your original retailer or an authorized CASIO Service Provider. **Disassembly and Modification** Never try to take this product apart or modify it in any way. Doing so creates the risk of electric shock, burn injury, or other personal injury. Leave all internal inspection, adjustment, and maintenance up to your original retailer or authorized CASIO Service Provider. **WARNING** Smoke, Strange Odor, Overheating Continued use of the product while it is emitting smoke, a strange odor, or heat creates the risk of fire and electric shock. Take the following steps immediately. 1.

Turn off power. 2. If you are using the AC adaptor for power, unplug it from the wall outlet. 3. Contact your original retailer or an authorized CASIO Service Provider.

AC Adaptor **G** Misuse of the AC adaptor creates the risk of fire and electric shock. Always make sure you observe the following precautions. · Be sure to use only the AC adaptor that is specified for this product. · Use only a power source whose voltage is within the rating marked on the AC adaptor. · Do not overload electrical outlets and extension cords.

G Misuse of the AC adaptor's electric cord can damage or break it, creating the risk of fire and electric shock. Always make sure you observe the following precautions. · Never place heavy objects on the cord or subject it to heat. · Never try to modify the cord or subject it to excessive bending. · Never twist or stretch the cord. · Should the electric cord or plug become damaged, contact your original retailer or authorized CASIO Service Provider. E-2 627A-E-004A **Safety Precautions Dropping and Impact** Continued use of this product after it has been damaged by dropping or subjecting it to strong impact creates the risk of fire and electric shock. Take the following steps immediately. 1. Turn off power.

2. If you are using the AC adaptor for power, unplug it from the wall outlet. 3. Contact your original retailer or an authorized CASIO Service Provider. **Plastic Bags** Never place the plastic bag the product comes in over your head or in your mouth.



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..... E-13 Using the AC Adaptor

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.... E-14 Auto Power Off

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... E-14 lume setting Song Bank controller indicators 6. 7. 8. 9. 10. 11. NOTE · Display examples shown in this User's Guide are intended for illustrative purposes only.

The actual text and values that appear on the display may differ from the examples shown in this User's Guide. E-10 627A-E-012A Song Bank Quick Reference MAIN VOLUME SONG BANK Number buttons POWER/MODE PLAY/PAUSE A selection of 100 Song Bank tunes comes built-in for your listening pleasure or play along fun. A simple operation cuts out the melody part or accompaniment part of the tune, allowing you to play along on the keyboard. See "Using the Song Bank" on page E-22 for details on playing along with Song Bank tunes. 4 Use the Song Bank list to find the tune you want to play back, and then use the number buttons to input the tune's two-digit number. Example: To select "68 ODE TO JOY", input 6 and then 8. Playing Back a Song Bank Tune

To play back a Song Bank tune 1 2 5 Set the POWER/MODE switch to NORMAL. Use the MAIN VOLUME buttons to lower the keyboard volume to a relatively low level. Press the PLAY/PAUSE button to start play of the tune. · The tune plays in an endless loop, re-starting after it reaches the end. · The display shows the keyboard keys (on the graphic keyboard), fingerings (with the fingering indicators), musical notes (on the staff), and chord names. Fingers used 3 Press the SONG BANK button to enter the Song Bank Mode. Appears when SONG BANK button is pressed Keyboard key used Chord name Staff display 627A-E-013A E-11 Song bank Quick Reference TONE STOP RIGHT ON/OFF 6 Press the RIGHT ON/OFF button to turn off the right-hand melody part and try playing along on the keyboard. · The display's graphic keyboard and fingering indicators show you the melody notes to play. 7 8 9 Press the RIGHT ON/OFF button again to turn the melody part back on.

· You can also turn the accompaniment part on and off by pressing the LEFT ON/OFF button.



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Press the STOP button to stop playback of the Song Bank tune. Press the TONE button to exit the Song Bank Mode and return to the tone and rhythm selection screen. indicator turns off NOTE · You can also perform the following operations during play of a Song Bank tune. · Pause: Press the PLAY/PAUSE button.

· Fast Forward: Press the FF (fast forward) button. · Rewind: Press the REW (rewind) button. E-12 627A-E-014A Power Supply This keyboard can be powered by current from a standard household wall outlet (using the specified AC adaptor) or by batteries. Always make sure you turn the keyboard off whenever you are not using it. Important Battery Information I The following shows the approximate battery life. Alkaline batteries

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· 4 hours* Manganese batteries

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.. 2 hours* * The above value is standard battery life at normal temperature, with the keyboard volume at medium setting. Temperature extremes or playing at very loud volume settings can shorten battery life. I Any of the following symptoms indicate low battery power. Replace batteries as soon as possible whenever any of the following occurs. · Dim power indicator · Instrument does not turn on · Display that is flickering, dim, or difficult to read · Abnormally low speaker/headphone volume · Distortion of sound output · Occasional interruption of sound when playing at high volume · Sudden power failure when playing at high volume · Flickering or dimming of the display when playing at high volume · Continued sound output even after you release a key · A tone that is totally different from the one that is selected · Abnormal rhythm pattern and Song Bank play · Loss of power, sound distortion, or low volume when playing from a connected computer or MIDI device · Abnormally low microphone volume · Distortion of microphone input · Dim power supply indicator when a microphone is used · Sudden power failure when using the microphone Using batteries Always make sure you turn off the keyboard before loading or replacing batteries. To load batteries 1 Remove the battery compartment cover. 2 Load 6 AA-size batteries into the battery compartment. · Make sure that the positive (+) and negative (-) ends are facing correctly.

WARNING 3 Insert the tabs on the battery compartment cover into the holes provided and close the cover. Tab Misuse of batteries can cause them to leak, resulting in damage to nearby objects, or to explode, creating the risk of fire and personal injury. Always make sure you observe the following precautions. · Never try to take batteries apart or allow them to become shorted. · Never expose batteries to heat or dispose of them by incineration. · Never mix old batteries with new ones. · Never mix batteries of different types. · Do not charge the batteries. · Make sure the positive (+) and negative (-) ends of the batteries are facing correctly. The keyboard may not function correctly if you load or replace batteries with power turned on.

If this happens, turning the keyboard off and then back on again should return functions back to normal. CAUTION Misuse of batteries can cause them to leak resulting in damage to nearby objects, or to explode, creating the risk of fire and personal injury. Always make sure you observe the following precautions. · Use only batteries that are specified for use with this product. · Remove batteries from the product if you do not plan to use it for a long time. 627A-E-015A E-13 Power Supply Using the AC Adaptor Make sure that you use only the AC adaptor specified for this keyboard. Specified AC Adaptor: AD-5 [Rear Panel] DC 9V jack · Never pull on the cord when unplugging from the electrical outlet. Always grasp the AC adaptor when unplugging. · Insert the AC adaptor into the wall outlet as far as it will go. · Unplug the AC adaptor from the wall outlet during lightning storms or before leaving on a trip or other long-term absence.

· At least once a year, unplug the AC adaptor from the wall outlet and wipe away any dust that is built up in the area around the prongs of the plug. AC adapter AD-5 IMPORTANT! · Make sure that the keyboard is turned off before connecting or disconnecting the AC adaptor. · Using the AC adaptor for a long time can cause it to become warm to touch. This is normal and does not indicate malfunction. AC outlet Also note the following important warnings and precautions when using the AC adaptor. Auto Power Off WARNING Misuse of the AC adaptor creates the risk of fire and electric shock. Always make sure you observe the following precautions. · Be sure to use only the AC adaptor that is specified for this product. · Use only a power source whose voltage is within the rating marked on the AC adaptor. · Do not overload electrical outlets and extension cords.

· Never place heavy objects on the cord or subject it to heat. · Never try to modify the cord or subject it to excessive bending. · Never twist or stretch the cord. Should the electric cord or plug become damaged, contact your original retailer or authorized CASIO Service Provider. · Never touch the AC adaptor while your hands are wet.

Doing so creates the risk of electric shock. · Use the AC adaptor where it will not be splashed with water. Water creates the risk of fire and electric shock. · Do not place a vase or any other container filled with liquid on top of the AC adaptor. Water creates the risk of fire and electric shock.

When you are using battery power, keyboard power turns off automatically whenever you leave it on without performing any operation for about 6 minutes. When this happens, use the POWER/MODE switch to turn power back on. NOTE · Auto Power Off is disabled (it does not function) when you are using the AC adaptor to power the keyboard. To disable Auto Power Off Hold down the TONE button while turning on the keyboard to disable Auto Power Off. NOTE ·

When Auto Power Off is disabled, the keyboard does not turn off automatically no matter how long it is left with no operation being performed. · Auto Power Off is automatically enabled whenever you turn on keyboard power. Settings CAUTION Misuse of the AC adaptor creates the risk of fire and electric shock.

Always make sure you observe the following precautions. · Do not locate the electric cord near a stove or other sources of heat. All keyboard settings are returned to their initial defaults whenever keyboard power is turned back on after being turned off by operation of the POWER/MODE switch or Auto Power Off.

E-14 627A-E-016A Connections Phones/Output Terminal Before connecting phones or other external equipment, be sure to first turn down the volume settings of the keyboard and the connected equipment.



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You can then adjust volume to the desired level after connections are complete. [Rear Panel] PHONES/OUTPUT terminal Audio connection [Connection Example] PIN plug (red) To keyboard's PHONES/OUTPUT terminal Stereo standard plug PIN plug (white) PIN jack INPUT 1 INPUT 2 Standard plug Keyboard or guitar amp NOTE · You can also connect the keyboard's MIDI terminal to a computer or sequencer.

Use the MAIN VOLUME buttons to lower the keyboard volume. · It's always a good idea to set the keyboard volume at a relatively low level before playing. · Pressing [] or [] causes the current volume setting to appear on the display. Press [] or [] again to change the setting. · Now notes played on the keyboard will be played using an acoustical wood bass sound. NOTE · Always input both digits for the tone number, including a leading zero (if any). If you input one digit and stop, the display will automatically clear your input after a few seconds.

· You can also increment the displayed tone number by pressing [+] and decrement it by pressing [-].

For a complete list, see the "Rhythm List" on page A-7. Refer to the following pages for details on chord play. CASIO CHORD ..

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· []: Decreases the tempo value. Example: Hold down the button until the tempo value 110 is on the display. Chord name NOTE · Pressing both TEMPO buttons (and) at the same time resets the tempo to the default value of the currently selected rhythm. Basic fingering of current chord (May be different from chord actually being played on the keyboard.) 4 About the Graphic Metronome The graphic metronome appears on the display along with the tempo value and beat of a rhythm or built-in tune. The graphic metronome helps you keep in time as you play along with a rhythm or built-in tune. Beat To stop Auto Accompaniment play, press the START/STOP button again. CASIO CHORD This method of chord play makes it possible for anyone to easily play chords, regardless of previous musical knowledge and experience. The following describes the CASIO CHORD "Accompaniment keyboard" and "Melody keyboard", and tells you how to play CASIO CHORDS.

CASIO CHORD Accompaniment Keyboard and Melody Keyboard Accompaniment keyboard Tempo value Graphic metronome Melody keyboard Using Auto Accompaniment The following procedure describes how to use the keyboard's Auto Accompaniment feature. Before starting, you should first select the rhythm you want to use and set the tempo of the rhythm to the value you want. NOTE · The accompaniment keyboard can be used for playing chords only. No sound will be produced if you try playing single melody notes on the accompaniment keyboard. To use Auto Accompaniment 1 2 Set the POWER/MODE switch to CASIO CHORD or FINGERED. 627A-E-021A E-19 Auto Accompaniment Chord Types CASIO CHORD accompaniment lets you play four types of chords with minimal fingering. Chord types Major chords Major chord names are marked above the keys of the accompaniment keyboard. Note that the chord produced when you press an accompaniment keyboard does not change octave, regardless of which key you use to play it. Minor chords (m) To play a minor chord, keep the major chord key depressed and press any other accompaniment keyboard key located to the right of the major chord key. Seventh chords (7) To play a seventh chord, keep the major chord key depressed and press any other two accompaniment keyboard keys located to the right of the major chord key.

Minor seventh chords (m7) To play a minor seventh chord, keep the major chord key depressed and press any other three accompaniment keyboard keys located to the right of the major chord key. NOTE · The accompaniment keyboard can be used for playing chords only. No sound will be produced if you try playing single melody notes on the accompaniment keyboard. Example C Major (C) CC#DE E FF#GA A B B CC# DE E F C Cm Cdim Caug *1 C minor (Cm) CC#DE E FF#GA A B B CC# DE E F Csus4 C7 *2 Cm7 *2 Cmaj7 *2 Cm7 5 C seventh (C7) CC#DE E FF#GA A B B CC# DE E F C7 5 *1 C7sus4 Cadd9 *2 C minor seventh (Cm7) CC#DE E FF#GA A B B CC# DE E F Cmadd9 *2 CmM7 *2 Cdim7 *1 NOTE · It makes no difference whether you press black or white keys to the right of a major chord key when playing minor and seventh chords. See the "Fingered Chord Chart" on page A-4 for details on playing chords with other roots.

*1: Inverted fingerings cannot be used. The lowest note is the root. *2: The same chord can be played without pressing the 5th G. FINGERED FINGERED provides you with a total of 15 different chord types. The following describes the FINGERED "Accompaniment keyboard" and "Melody keyboard", and tells you how to play a C-root chord using FINGERED.

NOTE · Except for the chords specified in note*1 above, inverted fingerings (i.e. playing E-G-C or G-C-E instead of C-EG) will produce the same chords as the standard fingering. · Except for the exception specified in note*2 above, all of the keys that make up a chord must be pressed. Failure to press even a single key will not play the desired FINGERED chord. FINGERED Accompaniment Keyboard and Melody Keyboard Accompaniment keyboard Melody keyboard E-20 627A-E-022A Auto Accompaniment ACCOMP VOLUME [+]/[-] Number buttons START/STOP SYNCHRO/FILL-IN Using a Fill-in Pattern Fill-in patterns let you momentarily change the rhythm pattern to add some interesting variation to your performances. The following procedure describes how to use the Fill-in feature. 2 Play a chord on the accompaniment keyboard and the rhythm pattern starts to play automatically. NOTE · If the POWER/MODE switch is set to NORMAL, only the rhythm plays (without a chord) when you play on the accompaniment keyboard. @@@@The following procedure describes how to use synchro start.

@@@@Adjust the main volume and accomp volume. @@@@1 beep: indicates a change to another measure. @@The tempo setting can be adjusted while the tune is stopped, playing back, or paused. 1 While playback is in progress, hold down the FF button. The indicator " " appears while a fast forward operation is in progress. 1 · Beeps sound during fast forward to give you an idea of where you are located in the tune. 1 beep: indicates a change to another measure. 3 beeps: indicates the ending of the tune. Use the TEMPO buttons [/] to adjust the tempo. : each press increases the value : each press decreases the value 2 To resume normal playback, release the FF button.

627A-E-025A E-23 Using the Song Bank RHYTHM TONE [+]/[-] Number buttons LEFT ON/OFF RIGHT ON/OFF STOP PLAY/PAUSE NOTE · Pressing both the [] and [] TEMPO buttons at the same time returns the tempo setting to the preset value for the currently selected tune.



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· Song Bank tunes 81 through 99 are arranged so their tempos change part way through the tunes. If you use the above procedure to change the tempo setting while one of these tunes is playing, however, the tempo you set is used for the entire tune without any change part way through. Playing Along with a Song Bank Tune Each Song Bank tune has a left-hand (accompaniment) part and a right-hand (melody) part. You can turn off the left-hand part or right-hand part of a Song Bank tune and play along with the remaining part on the keyboard.

Tune Numbers Accompaniment Type Left-hand Part Right-hand Part 00 to 80 81 to 99 Changing the Tone of a Song Bank Tune's Melody You can select any one of the keyboard's 100 tones to be used to play the melody part of a Song Bank tune. The tone setting can be changed while the tune is stopped or playing back. Autoaccompaniment Autoaccompaniment (percussion, bass, chords) Melody Piano Solo Left-hand notes 1 While a song is playing back, press the TONE button. Right-hand notes To play along with a Song Bank tune 2 Find the tone you want in the Tone List, and then use the number buttons or the [+] and [] buttons to specify the tone number. Example: To select "30 VIOLIN", input 3 and then 0.

1 2 Perform steps 1 through 4 under "To play back a Song Bank tune" on page E-22 to select the song you want to play along with. Press the RIGHT ON/OFF or LEFT ON/OFF button for the part you want to turn off. · Press the RIGHT ON/OFF button to turn off the right hand (melody) part, or the LEFT ON/OFF button to turn off the left hand (accompaniment) part. · The on/off status of each part is indicated by letters (L and R) that appear inside the hand graphics on the display. A part is turned on when its letter is displayed, and turned off when its letter is not displayed. NOTE · Pressing both the [+] and [] buttons at the same time selects "00 PIANO 1". · With two-hand tunes (81 to 99), you can select tones for both the left hand part and right hand part. · To return a Song Bank tune to its original settings, simply select that tune again. E-24 627A-E-026A Using the Song Bank 3 Press the PLAY/PAUSE button to start play of the Song Bank Tune. · Only the part (melody or accompaniment) that is turned on is played, so you can play the other part on the keyboard.

Applause Sound Whenever you turn off the left hand or right hand part of a Song Bank tune and play it back, an applause sound is produced when the tune reaches the end. To turn off the applause sound 1 Press the STOP button and the LEFT ON/OFF or RIGHT ON/OFF button at the same time. · The keys you should press are indicated on the display's graphic keyboard. · You can press the RIGHT ON/OFF and LEFT ON/OFF buttons to turn parts on and off while playback is in progress. · Pressing the STOP button and the LEFT ON/OFF or RIGHT ON/OFF button at the same time again turns the applause sound back on. 4 To end playback, press the STOP button. Auto-accompaniment Tunes (Tune Numbers 00 to 80) During playback of these tunes in the Song Bank Mode, the chord specification method for the left hand is always FINGERED for these tunes, regardless of the POWER/MODE switch setting. Two-hand Tunes (Tune Numbers 81 to 99) During playback of these tunes in the Song Bank Mode, the entire keyboard functions as a melody, regardless of the POWER/MODE switch setting. Playing Back All Song Bank Tunes in Succession 1 Use the TONE or RHYTHM button to change to any mode other than the Song Bank Mode. · Make sure a dot is not on the display next to the SONG BANK indicator.

Indicator turns off. NOTE · With two-hand tunes (81 to 99), you cannot turn off both the left-hand and right-hand parts at the same time. Turning off a part causes the other part to turn on automatically. · The selected Song Bank tune continues to repeat until you stop playback by pressing the STOP button. · The accompaniment volume setting (page E-21) affects auto-accompaniment tunes (00 to 80) only.

· Chord names are not displayed during playback of two-hand tunes (81 to 99). · Turning off both the left-hand and right-hand parts of the auto-accompaniment tunes (00 to 80) results in obbligato accompaniment being played. 2 3 Press the PLAY/PAUSE button to start playback of the Song Bank tunes starting from tune 00. To stop Song Bank tune playback, press the STOP button. · Pausing playback automatically cancels consecutive playback of all Song Bank tunes.

Re-starting playback causes repeat playback of the current tune only. 627A-E-027A E-25 Using the Chord Book Chord specification buttons CLEAR CHORD BOOK The Chord Book feature of this keyboard makes it possible for you to look up information about chords quickly and easily. Simply input the name of the chord and the keyboard keys you should press, the fingers you should use, and the notes that make up the chord appear on the display along with the chord name. <Note Names> C D E F G A B C White keys What is a chord? A chord is made up of a root note, upon which is stacked a number of other notes.

A variety of different chords can be created by changing the notes stacked onto a root. <Example: C chord> CE (D) (D) FAB (G) (G) (A) Black keys Sharps and flats can be referred to using either of the names shown here. The names in the upper row of this illustration are used by this keyboard, because they are the names that are most commonly used in musical notation. Stacked notes Root Inverted Forms Chord Names Chords are named using upper-case letters from A through G, which indicate the root note of the chord. If the root note is a sharp or flat, the chord itself is sharp or flat. A chord name may also be followed by a degree number or other symbols that indicate certain characteristics about the chord.

<Examples> Sharp Flat Minor Sharp Diminished There are a number of different ways to play the same chord. A form that is different from the basic form but still produces the same chord is called an "inverted form." <Example: C chord> All of the following are C chords. Root Seventh Degree Root Root Root Root Root Major seventh Sus fourth Root Degree Root E-26 627A-E-028A Using the Chord Book Looking Up a Chord Using the Chord Book <Example: F m7-5> CE FAB CE C D EF G A BCD EF 1 Press the CHORD BOOK button to enter the Chord Book mode. Fingers used Chord name 2 3 Press the CLEAR button. · This step is necessary to clear any previously input chord name. Keyboard keys used Staff display If the chord name you plan to input is a non-major chord, use the chord specification buttons to specify the chord type. · Chord types are indicated by the small letters above the chord specifications buttons.



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· Non-major chords include minor, seventh, sustained, etc. chords.

· See page E-28 for details on the chord specification buttons. · Skip step 3 if you want to input a major chord name. 5 6 Check to make sure that the chord name on the display is the one you want. If it isn't, repeat the above from step 2. If the chord is correct, you can see its fingering on the graphic keyboard. Try playing the chord on the keyboard. <Example> <Example: F m7-5> NOTE · The fingering that appears on the display is one standard fingering. You can also use other fingerings to match the size of your hands or to make it easier to progress from or to neighboring chords. · You can also use the [+] and [] buttons to change the displayed chord name. · The tone used to sound chords you play on the accompaniment keyboard while using the Chord Book is the same tone used by the accompaniment part of the rhythm that was selected before you entered the Chord Book mode.

Depending on the rhythm that was selected, some of the notes that make up a chord may be omitted when you play the chord on the accompaniment keyboard in the Chord Book Mode. This is due to the internal chord conversion function, arrangements, and polyphony limitations. Because of this, you should always play the chords indicated on the display on the melody keyboard (the range that does not have chord names printed above the keys). 4 Press the accompaniment keyboard key that corresponds to the root note of the chord. · A dash appears in place of the chord name if the chord cannot be recognized by the keyboard. · To specify F, for example, press the F key. · The key you press is indicated on the graphic keyboard and the corresponding chord sounds. 627A-E-029A E-27 Using the Chord Book Chord Name Modifier Keys Chord Type Symbol and Name Reference Modifier Key Chord Type Symbol and Name C7sus4 (C seventh sus fourth) Reference Modifier Key 7sus 4 major C (C major) add 9 Cadd9 (C add ninth) minor Cm (C minor) m add 9 Cm add9 (C minor add ninth) aug Caug C+5 (C augmented) 7th-5 Cs7-5 (C seventh flat five) C7 5 sus 4 Csus4 (C sustained forth) dim7 Cdim7 (C diminished seventh) dim Cdim C° (C diminished) NOTE C7 (C seventh) · Since the chord fingerings that appear on the display are selected to allow chord play within the accompaniment keyboard, inverted chord forms (page E-26) are often suggested. Inverted chord forms are useful to help you learn how to play chord variations that make it possible to move from one chord to another with minimal hand movement. These forms come in handy when using FINGERED Auto Accompaniment play.

· While a chord name is on the display, you can press keys on the accompaniment keyboard to find out the fingerings of the same chord with a different root. · You can also scroll through chord names using the [+] and [] buttons. · Chord fingerings that appear on the display are formed using only the keys within the range of the accompaniment keyboard (leftmost 18 keys). Chords that cannot be formed using the keys within this range are not displayed. 7th M7 CM7 (C major seventh) Cmaj7 C7 minor 7 Cm7 (C minor seventh) CmM7 minor M7 (C minor Major seventh) Cm7-5 minor 7-5 (C minor seventh flat five) Cø E-28 627A-E-030A Keyboard Settings TRANPOSE/TUNE/MIDI [+] / [-] Transposing the Keyboard Transpose lets you raise and lower the overall key of the keyboard in semitone units. If you want to play an accompaniment for a vocalist who sings in a key that's different from the keyboard, for example, simply use transpose to change the key of the keyboard. Tuning the Keyboard The tuning feature lets you fine tune the keyboard to match the tuning of another musical instrument. To tune the keyboard To transpose the keyboard 1 Press the TRANPOSE/TUNE/MIDI button twice to display the tuning screen. 1 Press the TRANPOSE/TUNE/MIDI button until the transpose screen appears on the display. 2 2 Use [+] and [] to change the transpose setting of the keyboard. Example: To transpose the keyboard five semitones upwards. Use [+] and [] to change the tuning setting of the keyboard. Example: To lower the tuning by 20. NOTE NOTE · The keyboard can be transposed within a range of 6 to +5. · The default transpose setting is "0" when keyboard power is turned on. · If you leave the transpose screen on the display for about five seconds without doing anything, the screen is automatically cleared. · The transpose setting also affects Auto Accompaniment. · Playing back a Song Bank tune automatically returns the transpose setting to its standard default of "0". · The allowable pitch range you can transpose within depends on the tone you are using. If a transpose operation causes a note to be outside of the pitch range for the tone being used, the keyboard automatically plays the same note in the nearest octave that falls within the pitch range of the tone you are using.

· The keyboard can be tuned within a range of 50 cents to +50 cents. *100 cents is equivalent to one semitone. · The default tuning setting is "00" when keyboard power is turned on. · If you leave the tuning screen on the display for about five seconds without doing anything, the screen is automatically cleared. · The tuning setting also affects Auto Accompaniment. · Playing back a Song Bank tune automatically returns the tuning setting to its standard default of "00".

627A-E-031B E-29 MIDI What is MIDI? The letters MIDI stand for Musical Instrument Digital Interface, which is the name of a worldwide standard for digital signals and connectors that makes it possible to exchange musical data between musical instruments and computers (machines) produced by different manufacturers. MIDI Connections NOTE ON/OFF This message sends data when a key is pressed (NOTE ON) or released (NOTE OFF). A NOTE ON/OFF message include a note number (to indicate note whose key is being pressed or released) and velocity (keyboard pressure as a value from 1 to 127). NOTE ON velocity is always used to determine the relative volume of the note.

This keyboard does not receive NOTE OFF velocity data. Whenever you press or release a key on this keyboard, the corresponding NOTE ON or NOTE OFF message is sent by constant velocity from the MIDI OUT terminal. MIDI IN MIDI OUT MIDI IN MIDI OUT NOTE · The pitch of a note depends on the tone that is being used, as shown in the Note Table on page A-2. Whenever this keyboard receives a note number that is outside its range for that tone, the same tone in the nearest available octave is substituted. Computer or other MIDI device General MIDI General MIDI standardizes MIDI data for all sound source types, regardless of manufacturer.



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General MIDI specifies such factors as tone numbering, drum sounds, and available MIDI channels for all sound sources. This standard makes it possible for all MIDI equipment to reproduce the same nuances when playing General MIDI data, regardless of the manufacturer of the sound source. Though the sound source of this keyboard is not General MIDI compatible, you can still connect the keyboard to a computer or other MIDI equipment to playback General MIDI data that is widely available in stores, over computer networks, and from other sources. PROGRAM CHANGE This is the tone selection message.

PROGRAM CHANGE can contain tone data within the range of 0 to 127.

A PROGRAM CHANGE message (0 to 99) is sent out through this keyboard's MIDI OUT terminal whenever you manually change its tone number. Receipt of a PROGRAM CHANGE message from an external machine changes the tone setting of this keyboard (this page). This keyboard can send tone data within the range of 00 to 99 and receive tone data within the range of 0 to 127. PITCH BEND This message carries pitch bend information for smoothly sliding the pitch upwards or downwards during keyboard play. This keyboard does not send pitch bend data, but it can receive such data.

CONTROL CHANGE This message adds effects such as vibrato and volume changes applied during keyboard play. CONTROL CHANGE data includes a control number (to identify the effect type) and a control value (to specify the on/off status and depth of the effect). The following is a list of data that can be received using CONTROL CHANGE. Effect VOLUME HOLD1 * MODULATION Control Number 7 64 1 NOTE · General MIDI data made up of a large number of parts may not play correctly on this keyboard. · You will have most success playing back General MIDI data that has few parts and is made up of data on channels 1, 2, 3, 4, and 10.

Messages There is a wide variety of messages defined under the MIDI standard, and this section details the particular messages that can be sent and received by this keyboard. * Pressing the foot pedal causes the sustain effect (HOLD1) to be sent (control number 64). E-30 627A-E-032A MIDI

TRANPOSE/TUNE/MIDI [+]/[-] Changing MIDI Settings This keyboard lets you change the settings of two MIDI parameters: TONE MAP and KEYBOARD CHANNEL. Parameters and Their Displays I KEYBOARD CHANNEL (Basic Channel) (Default: 01) This parameter specifies the keyboard MIDI message send channel. To change MIDI parameters 1 Press the TRANPOSE/TUNE/MIDI button either three or four times to select the parameter you want. Press the TRANPOSE/TUNE/MIDI button three times: KEYBOARD CHANNEL. Press the TRANPOSE/TUNE/MIDI button four times: TONE MAP. Example: To select the TONE MAP parameter. I TONE MAP G/N (Default: N) N: This setting specifies the normal tone map, which allows receipt of a program change value in the range of 0 to 99. Only tones that correspond to the 100 built-in tones of this keyboard can be played, and tone numbers outside this range are ignored.

2 Use [+] and [-] to change the setting of the parameter. Example: To change the TONE MAP parameter value to "G" (GM). G: This setting specifies the General MIDI tone map, which allows receipt of a program change value in the range of 0 to 127. Each of the 128 General MIDI tones is automatically assigned to one of the keyboard's 100 built-in tones as shown on page A-2. Select this setting when you want to listen to General MIDI data from a computer or other external equipment. · If you accidentally go past parameter you want, keep pressing the TRANPOSE/TUNE/MIDI button until parameter you want reappears on the display. · If you leave the parameter selection screen on the display for about five seconds without doing anything, the parameter selection screen is automatically cleared. NOTE · Playing a Song Bank tune causes all MIDI parameters to revert to their default settings. · Song Bank data cannot be sent as MIDI data. · MIDI messages cannot be received while the keyboard is in the Song Bank Mode.

627A-E-033A E-31 Troubleshooting Problem No keyboard Sound Possible Cause 1. Power supply problem. Action 1. Correctly attach the AC adaptor, make sure that batteries poles (+/-) are facing correctly, and check to make sure that batteries are not dead. 2.

Set the POWER/MODE switch to the NORMAL position. 3. Use the MAIN VOLUME buttons to increase volume. 4. Normal play is not possible on the accompaniment keyboard while the POWER/MODE switch is set to CASIO CHORD or FINGERED.

Change the POWER/MODE switch setting to NORMAL. Replace the batteries with a set of new ones or use the AC adaptor. · A tone that is totally different from the one that is selected · Abnormal rhythm pattern and Song Bank play · Loss of power, sound distortion, or low volume when playing from a connected computer or MIDI device · Abnormally low microphone volume · Distortion of microphone input · Dim power supply indicator when a microphone is used · Sudden power failure when using the microphone See page Pages E-13, 14 2. Power is not turned on. 3. Volume setting is too low. 4. The POWER/MODE switch is in the CASIO CHORD or FINGERED position. Page E-16 Page E-16 Page E-16 Any of the following symptoms while using battery power. @@@@Missing Song Bank tune.

Auto accompaniment volume is set to 0. @@1. @@Change the transpose or tuning parameter value to 0 or 00. 1. Check the display to see if the indicator for one of the parts is not displayed. If so, press the part's button (LEFT ON/OFF, RIGHT ON/OFF) to turn it on. 2. Adjust accompaniment volume. Connect MIDI cables properly. Change TONE MAP parameter to "G".

Page E-21 Page E-29 Page E-24 2. Accompaniment volume is set to 0. No sound is produced when playing MIDI data from a computer. The bass notes of General MIDI data being played back by a computer are one octave too low. @@MIDI cables are not connected properly.

@@Page E-17 Static noise when a microphone is connected. 1. @@2. Use of the microphone in the vicinity of fluorescent lighting. 1.

Microphone volume setting is too low. 2. Microphone on/off switch is set to OFF. 1. Use a recommended microphone. type 2. Move the microphone away from source of the static. 1. Increase the microphone volume setting. 2.

@@Enabled under battery power only, can be disabled manually. 2.0W + 2.0W 9V 7.7W 95.6 x 35.4 x 13.2 cm (37 11/16 x 13 15/16 x 5 3/16 inch) Approximately 3.8kg (8.4lbs) (without batteries) Power Supply Terminal: Microphone In: Power Supply: Batteries: Battery Life: AC Adaptor: Auto Power Off: Speaker Output: Power Consumption: Dimensions: Weight: 627A-E-035B E-33 Appendix/Appendice Tone List Lista de sonidos PIANO 00 PIANO 1 01 PIANO 2 02 HONKY-TONK 03 STUDIO PIANO 04 ELEC PIANO 1 05 ELEC PIANO 2 06 ELEC PIANO 3 07 ELEC PIANO 4 08 HARPSICHORD 09 CLAVELECTRO ORGAN 10 ELEC ORGAN 1 11 ELEC ORGAN 2 12 ELEC ORGAN 3 13 ELEC ORGAN 4 14 CHURCH ORGAN 15 PIPE ORGAN 16 REED ORGAN 17 ACCORDION 18 BANDONEON 19 HARMONICA GUITAR/BASS 20 GUT GUITAR 21 ACOUS GUITAR 22 JAZZ GUITAR 23 ELEC GUITAR 24 MUTE GUITAR 25 DIST GUITAR 26 WOOD BASS 27 ELEC BASS 28 SLAP BASS 29 BANJO STRINGS/ENSEMBLE 30 VIOLIN 31 CELLO 32 HARP 33 STRINGS 1 34 STRINGS 2 35 STRINGS 3 36 SYNTH-STR 1 37 SYNTH-STR 2 38 CHOIR 39 VOICE OOH BRASS 40 TRUMPET 41 TUBA 42 BRASS ENS 43 FR.



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The sound assigned to each key are indicated above the keyboard. · PERCUSSION (sonido 99) asigna 39 sonidos de percusión al teclado como se ilustra debajo. Los sonidos asignados a cada tecla se indican sobre el teclado. * No sound is produced when the keys in this range are pressed. * Cuando se presionan las teclas en esta gama no se produce ningún sonido. * BASS DRUM LM OPEN HI-HAT LOW-MID TOM HM COWBELL CRASH CYMBAL 2 CLAVES RIDE CYMBAL 2 HIGH BONGO LOW BONGO MUTE HIGH CONGA OPEN HIGH CONGA LOW CONGA HIGH TIMBALE V V LOW TIMBALE HIGH AGOGO LOW AGOGO CABASA MARACAS VOICE BASS DRUM VOICE SNARE VOICE CLOSED HI-HAT VOICE OPEN HI-HAT SIDE STICK ACOUSTIC SNARE HAND CLAP ELECTRIC SNARE L H HIGH-MID TOM CRASH CYMBAL 1 HIGH TOM RIDE CYMBAL 1 CHINESE CYMBAL RIDE BELL TAMBOURINE SPLASH CYMBAL LOW FLOOR TOM CLOSED HI-HAT H HIGH FLOOR TOM PEDAL HI-HAT L V V LOW TOM A-6 627A-E-076A

Appendix/Apéndice Rhythm List Lista de ritmos POPS I 00 CLUB POP 01 VOCAL POP 02 RAP POP 03 FUNKY POP 1 04 SOUL BALLAD 05 POP BALLAD 06 LOVE BALLAD 07 FUNKY POP 2 08 EPIC BALLAD 09 LITE POP POPS II 10 16 BEAT SHFL 11 16 BEAT POP 12 16 BEAT FUNK 13 8 BEAT POP 14 8 BEAT SOUL 15 8 BEAT SHFL 16 DANCE POP 1 17 DANCE POP 2 18 POP FUSION 19 FOLKIE POP ROCK 1 20 ROCK WALTZ 21 SLOW ROCK 1 22 SLOW ROCK 2 23 SOFT ROCK 1 24 SOFT ROCK 2 25 SOFT ROCK 3 26 POP ROCK 1 27 POP ROCK 2 28 50'S ROCK 29 60'S SOUL ROCK II 30 4 BEAT ROCK 31 ROCK 32 HEAVY ROCK 33 8 BEAT ROCK 34 STRAIGHT ROCK 35 HEAVY METAL 36 TWIST 37 NEW ORLNS R&R 38 CHICAGO BLUES 39 R&B JAZZ/FUSION 40 BIG BAND 41 SLOW SWING 42 SWING 43 FOX TROT 44 JAZZ WALTZ 45 MODERN JAZZ 46 COOL 47 HARD BOP 48 ACID JAZZ 49 LATIN FUSION DANCE/FUNK 50 VOCAL GROOVE 51 RAVE 52 CLUB GROOVE 53 TECHNO 54 TRANCE 55 HOUSE 56 GROOVE SOUL 57 DISCO 58 RAP 59 FUNK EUROPEAN 60 POLKA 1 61 POLKA 2 62 MARCH 1 63 MARCH 2 64 WALTZ 65 VIENNESE WALTZ 66 FRENCH WALTZ 67 SLOW WALTZ 68 SERENADE 69 TANGO 1 LATIN I 70 BOSSA NOVA 71 SAMBA 72 MAMBO 73 RHUMBA 74 CHA-CHA-CHA 75 MERENGUE 76 REGGAE 77 BOLERO 78 TANGO 2 79 LAMBADA LATIN II/VARIOUS I 80 PUNTA 81 CUMBIA 82 SKA 83 TEX-MEX 84 SALSA 85 FOLKLORE 86 PASODOBLE 87 RUMBA CATALANA 88 SEVILLANA 89 FOLK VARIOUS II 90 COUNTRY 91 BLUEGRASS 92 TOWNSHIP 93 FAST GOSPEL 94 SLOW GOSPEL 95 ADANI 96 BALADI 97 BAROQUE 98 ENKA 99 NEW AGE 627A-E-077A A-7 Models Transmitted 1 1-16 1-4, 10 1-4, 10 Recognized Remarks CTK-496/CTK-700 MIDI Implementation Chart Version: 1.

0 Function ... Basic Channel Default Changed Mode Default Messages Altered Mode 3 X Mode 3 X *1: Depends on tone *1: Depende en el sonido *3 = no relation *3 = sin relación X X O Note Number O 9nH V = 75,100 *2 X 9nH V = 0 X X X True voice 36-96 0-127 36-96 *1 O 9nH V = 1-127 X 9nH V = 0,8nH V = *3 Velocity Note ON Note OFF After Touch Key's Ch's Pitch Bender Control Change 1 6, 38 7 10 11 X X X X X O X O X X Modulation Data entry Volume Pan Expression 627A-E-078B 627A-E-079A 64 100, 101 120 121 O X X X O X X X Hold1 RPN LSB, MSB All sound off Reset all controller Program Change X X X X X X X X X X X X X X : True # O 0-99 O 0-127 *4 System Exclusive System Common : Song Pos : Song Sel : Tune System Real Time : Clock : Commands Aux Messages : Local ON/OFF : All notes OFF : Active Sense : Reset X X X X X O X X Remarks *2 V(Velocity)=100 when note on data when the main volume value of this unit is 9 to 2, and V=75 when the main volume value is 1 or 0. *2 V (Velocidad) = 100 cuando datos de activación de nota cuando el valor de volumen principal de esta unidad es 9 a 2, y V = 75 cuando el valor de volumen principal es 1 o 0. *4 Depends on GM tone map setting (page E-31). *4 Depende en el ajuste del mapa de sonidos GM (página S-31). Mode 1 : OMNI ON, POLY Mode 3 : OMNI OFF, POLY Mode 2 : OMNI ON, MONO Mode 4 : OMNI OFF, MONO O : Yes X : No This recycle mark indicates that the packaging conforms to the environmental protection legislation in Germany. Esta marca de reciclaje indica que el empaquetado se ajusta a la legislación de protección ambiental en Alemania. CASIO COMPUTER CO. ,LTD. 6-2, Hon-machi 1-chome Shibuya-ku, Tokyo 151-8543, Japan F MA0502-B Printed in China CTK496/700ES1A .



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