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You can read the recommendations in the user guide, the technical guide or the installation guide for CASIO CTK-720. You'll find the answers to all your questions on the CASIO CTK-720 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

## CTK-720

USER'S GUIDE  
GUÍA DEL USUARIO



CTK720ES1A

**CASIO.**



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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. Declaration of Conformity Model Number: CTK-720 Trade Name: CASIO COMPUTER CO., LTD. Responsible party: CASIO, INC. Address: 570 MT. @@@@ 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. @@ · Replace batteries as soon as possible after any sign they are getting weak. · 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 628A-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. · Be sure to keep all user documentation handy 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. 628A-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 628A-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.



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*Plastic Bags Never place the plastic bag the product comes in over your head or in your mouth. Doing so creates the risk of suffocation.*

*Particular care concerning this precaution is required where small children are present. Keep off of the product and stand. \* Climbing onto the product or stand can cause it to tip over or become damaged. Particular care concerning this precaution is required where small children are present. Location Avoid locating the product on an unstable stand, on an uneven surface, or any other unstable location.*

*An unstable location can cause the product to fall over, creating the risk of personal injury. CAUTION AC Adaptor G 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. · Never pull on the cord when unplugging from the electrical outlet.*

*Always grasp the AC adaptor when unplugging. G Misuse of the AC adaptor creates the risk of fire and electric shock. Always make sure you observe the following precautions. · Insert the AC adaptor into the wall outlet as far as it will go. · Unplug the AC adaptor from the wall outlet during lightening storms or before leaving on a trip or other longterm 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. Relocating the Product Before relocating the product, always unplug the AC adaptor from the wall outlet and disconnect all other cables and connecting cords. Leaving cords connected creates the risk of damage to the cords, fire, and electric shock. Cleaning Before cleaning the product, always unplug the AC adaptor from the wall outlet first. Leaving the AC adaptor plugged in creates the risk of damage to the AC adaptor, 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. · 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. 628A-E-005A E-3 Safety Precautions Connectors Connect only the specified devices and equipment to the product's connectors. Connection of a non-specified device or equipment creates the risk of fire and electric shock. Location Avoid the following locations for this product. Such locations create the risk of fire and electric shock. · Areas subject to high humidity or large amounts of dust. · In food preparation areas or other areas subject to oil smoke.*

*· Near air conditioning equipment, on a heated carpet, in areas exposed to direct sunlight, inside of a vehicle parked in the sun, or any other area that subjects the product to high temperatures. Display Screen · Never push on the display screen's LCD panel or subject it to strong impact. Doing so can cause the LCD panel's glass to crack, creating the risk of personal injury. · Should the LCD panel ever crack or break, never touch the liquid inside of the panel. LCD panel liquid can cause skin irritation.*

*· Should LCD panel liquid ever get inside your mouth, immediately wash out your mouth with water and contact your physician. · Should LCD panel liquid ever get into your eyes or onto your skin, rinse with clear water for at least 15 minutes, and then contact a physician. Sound Volume Do not listen to music at very loud volumes for long periods. Particular care concerning this precaution is required when using headphones. High volume settings can damage your hearing.*

*Heavy Objects Never place heavy object on top of the product. Doing so can make the product top heavy, causing the product to tip over or the object to fall from it, creating the risk of personal injury. Correct Stand\* Assembly An incorrectly assembled stand can tip over, causing the product to fall and creating the risk of personal injury. Make sure you assemble the stand correctly, following the assembly instructions that come with it. Make sure you mount the product on the stand correctly. \* Stand is available as an opt....*

*E-18 Using Auto Accompaniment .....*

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*.... E-18 Using a Fill-in Pattern .*

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*... E-20 Synchro Starting Accompaniment with Rhythm Play ..*

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*.... E-10 To play the keyboard .*

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*.... E-10 Playing a Built-in Tune.*

*..... E-21 To play back a Song Bank tune ...*

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*E-21 To play back a Piano Bank tune .....*

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*... E-22 Adjusting the Tempo .....*

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.... E-22 To change the melody tone .....

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.... E-23 To play all tunes in succession .

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..... E- of the keyboard.

*Note that display contrast is fixed, and cannot be adjusted. 628A-E-011A E-9 Quick Reference Power indicator POWER/MODE SONG BANK Number buttons STEP 2 START/STOP PIANO BANK STEP 1 This section provides a quick overview of keyboard operation using steps one and two of the 3-step lesson feature. With the 3-step lesson feature, the on-screen keyboard guide keys light to show the next note of the tune. 4 5 Press the STEP 1 button or STEP 2 button. · The keyboard sounds a count beat and waits for you to play something on the keyboard. The keys that you need to press first flash on the display. To play the keyboard Play the melody along with the selected tune's accompaniment. · Play in accordance with the keyboard keys, fingerings and notes that appear on the display. 1 Set the POWER/MODE switch to NORMAL. · This causes the power indicator to light.*

*Lit A l o h a Oe 2 Press the SONG BANK button. Keyboard key used Fingering Note pitch Indicator appears 3 If you selected lesson Step 1 · Play the notes on the keyboard. · Accompaniment (left-hand part) plays in time with the notes. · With Step 1, the correct melody note is played no matter which keyboard key you press. If you selected lesson Step 2 · Play the correct notes on the keyboard.*

*· While an on-screen keyboard guide key is lit, press the corresponding key on the actual keyboard. In the case of a Piano Bank tune, the keyboard guide indication turns off when you press a keyboard key, and the on-screen keyboard guide key lights for the next note to be played. · Accompaniment (left-hand part) plays in time with the notes, as long as you press the correct keyboard keys. Find the tune you want to play in the SONG BANK List, and then use the number buttons to input its two-digit number. · See page A-9 for the SONG BANK List.*

*Example: To select "40 ALOHA OE", input 4 and then 0. A l o h a Oe E-10 628A-E-012A Quick Reference 6 To stop play at any time, press the START/STOP button. To play an Etude or Concert Piece tune 1 When you get to step 2 of the above procedure, press the PIANO BANK button in place of the SONG BANK button. Indicator appears 2 Find the tune you want to play in the PIANO BANK List, and then use the number buttons to input its two-digit number.*



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· See page A-9 for the PIANO BANK List. 3 Next, continue from step 4 of the above procedure. 628A-E-013A E-11 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 1 The following shows the approximate battery life. Alkaline batteries .

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.....  
.....

..... 4 hours Manganese batteries .....

.....  
.....  
.....

..... 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. Using batteries Always make sure you turn off the keyboard before loading or replacing batteries. To load batteries WARNING 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. 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.

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. 3 Insert the tabs on the battery compartment cover into the holes provided and close the cover. Tab NOTE · 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. E-12 628A-E-014A 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 AC adaptor AD-5 Auto Power Off 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. AC outlet NOTE Note the following important precautions to avoid damage to the power cord. GDuring Use · Never pull on the cord with excessive force. · Never repeatedly pull on the cord. · Never twist the cord at the base of the plug or connector. · The power cord should not be stretched tight while it is in use. GDuring Movement · Before moving the keyboard, be sure to unplug the AC adaptor from the power outlet. GDuring Storage · Loop and bundle the power cord, but never wind it around the AC adaptor. · 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 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. 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.

628A-E-015A E-13 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. You can then adjust volume to the desired level after connections are complete. [Rear Panel] 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 PHONES/OUTPUT terminal Stereo standard plug 1 Connecting to a Computer or Other Equipment You can also connect the keyboard to a computer or sequencer. See "Connecting to a Computer" on page E-30 for details. White Red PIN plug 2 3 LEFT RIGHT AUX IN or similar terminal of audio amplifier Keyboard amp, guitar amp, etc.

Sustain jack Terminal You can connect an optional sustain pedal (SP-3 or SP-20) to the SUSTAIN jack terminal to enable the capabilities described below. Connecting Phones (Figure 1) Connecting phones cuts off output from the keyboard's builtin speakers, so you can play even late at night without disturbing anyone. Audio Equipment (Figure 2) Connect the keyboard to a audio equipment using a commercially available connecting cord with a standard plug on one end and two PIN plugs on the other end. Note that the standard plug you connect to the keyboard must be a stereo plug, otherwise you will be able to output only one of stereo channels. In this configuration, you normally set the input selector of the audio equipment to the terminal (usually marked AUX IN or something similar) where the cord from the keyboard is connected. See the user documentation that comes with your audio equipment for full details. Musical Instrument Amplifier (Figure 3) Use a commercially available connecting cord\* to connect the keyboard to a musical instrument amplifier. \* Be sure to use a connecting cord that has a stereo standard plug on the end you connect to the keyboard, and a connector that provides dual channel (left and right) input to the amplifier to which you are connecting. The wrong type of connector at either end can cause one of the stereo channels to be lost. When connected to a musical instrument amplifier, set the volume of the keyboard to a relatively low level and make output volume adjustments using the amplifier's controls.

SUSTAIN jack Terminal SP-20 Sustain Pedal · With piano tones, depressing the pedal causes notes to linger, much like a piano's damper pedal. · With organ tones, depressing the pedal causes notes to continue to sound until the pedal is released. Microphone Jack You can connect a commercially available microphone to the microphone jack and sing along with notes played on the keyboard.



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For details, see "Using the Microphone Jack" on page E-16. Accessories and Options Use only the accessories and options specified for this keyboard. Use of non-authorized items creates the danger of fire, electrical shock, and personal injury. E-14 628A-E-016A Basic Operations POWER/MODE MAIN VOLUME TONE Number buttons MIC VOLUME This section provides information on performing basic keyboard operations. 3 Use the number buttons to input the three digit tone number for the tone you want to select. Example: To select "041 ACOUSTIC BASS", input 0, 4 and then 1. Playing the Keyboard To play the keyboard Acous .

NOTE · Always input all three digits for the tone number, including leading zeros (if any). If you input one or two digits and stop, the display will automatically clear your input after a few seconds. @@@@ Turn on the microphone's ON/OFF switch. @@ The bass and chord parts are played using sounds and tones that are automatically selected to select the rhythm you are using. All of this means that you get full, realistic accompaniments for the melody notes you play with your right hand, creating the mood of an one-person ensemble.

NOTE · "00 8 Beat 1" is the initial default rhythm setting whenever you turn on keyboard power. · You can also increment the displayed rhythm number by pressing [+ ] and decrement it by pressing [ ] . Accompaniment sounds (chords, bass, etc.) do not sound while a metronome rhythm (No. 95 to 99: 0, 2, 3, 4, 6) is being used, even if the POWER/MODE switch setting is "CASIO CHORD" or "FINGERED".

@@@@ Refer to the following pages for details on chord play. CASIO CHORD .....

..... This page FINGERED ....

.....

.....

..... @@: Decreases the tempo value.

@@@@ For details about these buttons, see page E-20. @@@@ E-18 628A-E-020A Auto Accompaniment CASIO CHORD Accompaniment Keyboard and Melody Keyboard Accompaniment keyboard Melody keyboard FINGERED FINGERED provides you with a total of 15 different chord types.

@@@@\*1: Inverted fingerings cannot be used. The lowest note is the root. @@@@ · 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. Synchro Starting

Accompaniment with Rhythm Play You can set up the keyboard to start rhythm play at the same time you play the accompaniment on the keyboard. The following procedure describes how to use synchro start. Before starting, you should first select the rhythm you want to use, set the tempo, and use the POWER/MODE switch to select the chord play method you want to use (CASIO CHORD, FINGERED). 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. To use synchro start 1 Press the SYNCHRO button to put the keyboard into synchro start standby. Flash To insert a fill-in 1 2 Press the START/STOP button to start rhythm play. Press the FILL-IN button to insert a fill-in pattern for the rhythm you are using. 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. · To cancel synchro start standby, press the SYNCHRO button one more time. E-20 628A-E-022A Playing a Built-in Tune TONE Number buttons SONG BANK

START/STOP TEMPO PIANO BANK Your keyboard comes with a total of built-in 100 tunes. You can play back built-in tunes for your own listening pleasure, or you can use them for practice and even sing-along. Built-in tunes are divided between the two groups described below.

· Song Bank: 50 tunes The tunes in this group are Auto Accompaniment tunes. · Piano Bank Group: 50 tunes The tunes in this group are piano tunes. 3 Use the number buttons to input the tune's twodigit number. Example: To select "40 ALOHA OE", input 4 and then 0. Song number Song name A l o h a O e NOTE

· Tune Number 00 is the initial default Song Bank tune setting whenever you turn on keyboard power. · You can also increment the displayed tune number by pressing [+ ] and decrement is by pressing [ ] . To play back a Song Bank tune PREPARATION · Adjust the main volume (page E-15). 1 2 Find the tune you want to play in the SONG BANK List, and note its number. · See page A-9 for the SONG BANK List. 4 Press the SONG BANK button to enter the Song Bank Mode.

Press the START/STOP button to start play of the tune. Staff display A l o h a O e Indicator appears Keyboard keys used Chord name Fingering 5 Press the START/STOP button to stop playback of the Song Bank tune. · The tune you select continues to play until you stop it. 628A-E-023A E-21 Playing a Built-in

Tune To play back a Piano Bank tune Adjusting the Tempo Each tune has a preset default tempo (beats per minute) that is set automatically whenever you select a tune. While the tune is playing, you can change the tempo setting to a value in the range of 40 to 255. 1 2 Find the tune you want to play in the PIANO BANK List, and note its number. · See page A-9 for the PIANO BANK List. Press the PIANO BANK button to specify the Piano Bank group. To set the tempo 1

Indicator appears Use the TEMPO buttons to set the tempo. : Increases the tempo value.

: Decreases the tempo value. Flash NOTE · Pressing the PIANO BANK button changes the tone to STEREO GRAND PIANO (Tone Number 000). Tempo value NOTE 3 Use the number buttons to input the two-digit tune number you looked up in step 1. Example: To select tune number 03 (Ode To Joy), input 0 and then 3. O d e T o J o y NOTE · Tune Number 00 is the initial default Piano Bank tune setting whenever you turn on keyboard power.

· You can also change the displayed tune number using the [+ ] and [ ] buttons. · While the tempo value is flashing, you can also use the number buttons or [+ ] and [ ] to input a three-digit value. Note that you must input leading zeros, so 90 is input as 090. · Pressing both the and TEMPO buttons at the same time automatically returns the currently selected rhythm to its default tempo. · Piano Bank tunes have tempo changes part way through in order to produce specific musical effects.

Note that the tempo setting automatically returns to the default whenever a tempo change occurs within one of these tunes. 4 5 Press the START/STOP button to start playback. @@@@@ Piano Bank Tunes When using these tunes for a 3-step lesson, you can practice playing along with both the left hand and right hand parts.



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*On-screen keyboard guide NOTE · Note length is not indicated when you are using Piano Bank tunes with 3-step lesson Steps 1 and 2. As soon as you press a key that is lit on the on-screen keyboard guide, it goes out and the next key you need to press starts to flash. · Note length is indicated by the on-screen keyboard guide when you use Piano Bank tunes with Step 3. In this case, the next key to be pressed does not flash when you press a lit key and the next finger number does not appear on the display. Only the current finger number is shown. Display Contents During 3-step Lesson Play Whenever you select an Auto Accompaniment tune for 3step lesson play, the on-screen keyboard guide and staff notation shows the note you should play and its length. The on-screen keyboard guide also shows the notes you play on the keyboard.*

*The following describes the information that appears on the display. 3-step Lesson Tempo Setting Use the procedure under "Adjusting the Tempo" on page E-22 to adjust the tempo for 3-step lesson play. Note Pitch The key you should press lights on the on-screen keyboard guide, while the actual pitch of the note appears in the display's staff notation area. The fingers you should use to play the notes are also shown on the display. Note Length The key stays lit on the on-screen keyboard guide for as long as the note should be sustained. The staff notation and fingerings also remain on the display for the length of the note. E-24*

*628A-E-026A 3-Step Lesson SPEAK RIGHT LEFT STEP 1 START/STOP STEP 2 SCORING STEP 3 Evaluation Mode The keyboard's Evaluation Mode awards points to your performances during Step 3 of the 3-Step Lesson. A perfect score is 100. Also, the Evaluation Mode provides comments about your play on the monitor screen. Using the Lesson Functions and Evaluation Mode Perform the following steps to master your favorite tunes.*

*Evaluation Mode Display Level Indicator (9 Levels): This indicator shows the evaluation of your current performance at a glance. The more segments that appear, the higher your points. Example: 50 points Step 1 Master the timing. 1 2 Select the tune you want to use. Press the STEP 1 button to start Step 1 play. · The hand you should use is indicated by arrows around it. Evaluation Results After you finish playing, the keyboard calculates an evaluation of your total performance, from beginning to end, and displays your total score on the monitor screen. The greater the score, the higher your evaluation is. Evaluation Rank Display Messages Display Message "Bravo!" "Great!" "Not bad!" "Again!" <High> Evaluation Ranges <Low> Indicators · Left hand practice can also be performed with Piano Bank tunes. Simply select one of the Piano Bank tunes in step 1, and then press the LEFT button following step 2.*

*Note pitch Indicator appears A l oha Oe "\*\*\*\*\*" : indicates that the Evaluation Mode was exited before an evaluation result could be obtained. NOTE · If you press the START/STOP button and interrupt the Evaluation Mode part way through, the monitor screen shows the evaluation points you have accumulated up to that point. In this case, the keyboard does not display a message. Keyboard keys used Fingering · After a count sounds, the keyboard stands by and waits for you to play the first note of the tune. · Voice fingering guide will use a simulated human voice to call out fingering numbers. See "Voice Fingering Guide" on page E-27 for details. 628A-E-027A E-25 3-Step Lesson 3 Press any keyboard keys to play the notes. · The key for the next note to be played flashes on the on-screen keyboard guide and the keyboard waits for you to play it. When you press any key to play the note, the on-screen key remains lit as the note plays. · Accompaniment (left-hand part) waits until you press any key to play a note.*

*· If you accidentally press more than one key in succession, accompaniment is played for the corresponding number of notes. · Pressing more than one key at the same time counts as a single note. Pressing a key while another key is held down is counted as two notes. 3 Play the notes as indicated by the on-screen keyboard guide. · The key for the next note to be played flashes on the on-screen keyboard guide and the keyboard waits for you to play it. When you press any key to play the note, the on-screen key remains lit as the note plays. · If multiple keys light on the on-screen keyboard guide when you are using a two-hand tune, it means that you must press all of the keys that are lit. 4 To stop play at any time, press the START/STOP button. 4 To stop play at any time, press the START/STOP button. Step 3 Play at normal speed.*

*Step 2 Master the notes. 1 2 Select the tune you want to play. Press the STEP 3 button to start Step 3 play. · Indicators appear around the hand on the display whose part is selected for practice. · Left hand practice can also be performed with Piano Bank tunes.*

*Simply select one of the Piano Bank tunes in step 1, and then press the LEFT button following step 2. Indicator appears 1 2 Select the tune you want to use. Press the STEP 2 button to start Step 2 play. · Indicators appear around the hand on the display whose part is selected for practice. · Left hand practice can also be performed with Piano Bank tunes.*

*Simply select one of the Piano Bank tunes in step 1, and then press the LEFT button following step 2. Indicator appears A l oha Oe A l oha Oe Keyboard keys used Fingering · Accompaniment (left hand part) starts to play at normal speed. Keyboard keys used Fingering · After a count sounds, the keyboard stands by and waits for you to play the first note of the tune. · Voice fingering guide will use a simulated human voice to call out fingering numbers. See "Voice Fingering Guide" on page E-27 for details. 3 4 Play the notes as indicated by the on-screen keyboard guide. To stop play at any time, press the START/STOP button. E-26 628A-E-028A 3-Step Lesson Evaluation: Find out how the keyboard evaluates your Step 3 play. Use the SCORING button to check the evaluation of your play in Step 3. Voice Fingering Guide Voice fingering guide uses a simulated human voice to call out fingering numbers during Step 1 and Step 2 one-hand part practice.*

*If you need to press a key with your thumb, for example, voice fingering guide says, "One!" In the case of a chord to be played with your thumb, middle and little finger, voice fingering guide says, "One, three, five!" Voice Fingering Guide calls out fingerings only when you do not press the proper key when you should. Voice Fingering Guide One Two Three Four Five : : : : Thumb Forefinger Middle finger Ring finger Little finger 1 Press the SCORING button.*



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· This causes the SCORING indicator to appear on the display. · A count beat sounds and then evaluation mode starts. Indicator appears To turn voice fingering guide on or off 2 Play in accordance with the guidance on the monitor screen and as told by the voice. · To stop evaluation, press the START/STOP button. This displays only the points accumulated up to that point. Press the SPEAK button to toggle voice fingering guide on (voice fingering guide indicator displayed) and off (indicator not displayed). Indicator appears 3 After you finished playing, your evaluation result appears on the display. · For information about evaluation ranks and sound effects, see "Evaluation Results" on page E-25.

· Pressing the SONG BANK button returns to the tune selection screen. NOTE · Note that Voice Fingering is disabled in the Evaluation Mode. · Exiting the Evaluation Mode automatically restores the Voice Fingering setting that was in effect when you entered the Evaluation Mode. Br avo ! 628A-E-029A E-27 Keyboard Settings SETTING [+]/[-] Number buttons About SETTING button Each press of the SETTING button cycles through the setting screens. If you accidentally pass the screen you want to use, keep pressing the SETTING button until the screen appears again.

To adjust built-in tune volume Enter the Song Bank mode or Piano Bank mode, and then perform the procedure under "To adjust the accompaniment volume".

· In this case, a song volume screen will appear in place of the accompaniment volume screen. Adjusting Accompaniment and Song Bank Volume You can adjust the volume of the accompaniment and Song Bank tunes independently of the notes you play on the keyboard. You can specify a volume level in the range of 00 (minimum) to 99 (maximum). 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. To adjust the accompaniment volume To transpose the keyboard 1 Press the SETTING button until the accompaniment volume adjustment screen appears. 1 2 Press the SETTING button until the transpose screen appears on the display. Use [+] and [-] to change the transpose setting of the keyboard. Example: To transpose the keyboard five semitones upwards. Ac ompVo 1 Current accompaniment volume setting 2 Use the number buttons or the

[+]/[-] buttons to change the current volume setting value. Example: 80 T r ans (+) Ac ompVo 1 NOTE · The current accompaniment volume value that appears in Step 1 automatically clears from the display if you do not input anything within about five seconds. · Pressing [+] and [-] buttons at the same time automatically sets an accompaniment volume of 99. E-28 628A-E-030A Keyboard Settings NOTE · The keyboard can be transposed within a range of 12 to +12. · The default transpose setting is "00" 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 "00". · The effect of a transpose operation depends on the pitch of each note and on the tone you are currently using. If a transpose operation causes a note to be outside of the allowable range for a tone, the same note in the nearest octave within the range will be substituted. Tuning the Keyboard Use the following procedure to fine tune the keyboard to match the tuning of another musical instrument. To tune the keyboard 1 Press the SETTING button until the tuning screen appears. Tune 2 Use the [+], [-], and the number buttons to adjust the tuning value. Example: To lower tuning by 20 Tune (-) NOTE · 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 playback from song memory and Auto Accompaniment. · To return the keyboard to its default tuning, perform the above procedure and press the [+] and [-] buttons at the same time in step 2. 628A-E-031A E-29 Connection to a Computer SETTING [+]/[-] Number buttons LEFT RIGHT Connecting to a Computer The keyboard's USB port makes it quick and simple to connect to a computer.

After installing the USB MIDI driver onto your computer from the CD-ROM that comes with the keyboard, you will be able to use commercially available MIDI software on your computer to exchange data between the keyboard and your computer. Minimum Computer system Requirements Supported Operating Systems Operation is supported under Windows® XP, Windows® 2000, Windows® Me, Windows® 98SE, and Windows® 98. G Universal · IBM AT or compatible computer · USB port that provides normal operation under Windows · CD-ROM drive (for installation) · At least 2MB of free hard disk space (not including space required for Adobe Reader) To install the USB MIDI driver 1 On the computer to which you plan to connect, install the USB MIDI driver that comes on the CDROM that comes bundled with the keyboard. · For information about installing the USB MIDI driver, see the "CASIO USB MIDI Driver User's Guide" (manual\_e.pdf) on the "USB Manual and Driver CDROM".

G Windows XP · 300MHz or higher Pentium processor · At least 128MB of memory G Windows 2000 · 166MHz or higher Pentium processor · At least 64MB of memory NOTE · Before starting actual installation of USB MIDI driver, be sure to read the contents of the "readme.txt" file in the "English" folder on the CD-ROM. · Use Adobe Reader or Acrobat Reader to access the USB MIDI driver user's guide. \* \* You need to have Adobe Reader or Acrobat Reader installed on your computer in order to view the contents of the "CASIO USB MIDI Driver User's Guide" (manual\_e.pdf). If your computer does not have either Adobe Reader or Acrobat Reader installed, use the procedure below to install it. Installing Adobe Reader (Acrobat Reader\*\*) · Place the "USB Manual and Driver CD-ROM" into your computer's CD-ROM drive. · On the CD-ROM, navigate to the folder named "Adobe", open the folder named "English", and then double-click "ar601enu.



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exe" ("ar505enu.exe"\*\*\*).

Follow the instructions that appear on your computer screen to install Adobe Reader. \*\* Adobe Reader cannot be installed on a computer running Windows 98. If your computer is running under Windows 98, double-click "ar505enu.exe" to install Acrobat Reader. G Windows Me, Windows 98SE, Windows 98 · 166MHz or higher Pentium processor · At least 32MB of memory Driver Signing G Windows XP 1 Log on to Windows XP using a Computer administrator account. See the documentation that comes with Windows XP for information about Computer administrator accounts. On the Windows [Start] menu, click [Control Panel]. · If you cannot see the [System] icon on the Control Panel, click [Switch to Classic View]. 2 3 4 Click the [System] icon. On the dialog box that appears, click the [Hardware] tab, and then click the [Driver Signing] button.

On the dialog box that appears, select [Ignore], and then click [OK]. E-30 628A-E-032A Connection to a Computer G Windows 2000 General MIDI Tone The General MIDI standard defines the tone numbering sequence, the drum sound numbering sequence, the number of MIDI channels that can be used, and other general factors that determine the sound source configuration. Because of this, musical data produced on a General MIDI sound source can be played back using similar tones and identical nuances as the original, even when played on another manufacturer's sound source. This keyboard conforms with General MIDI standards, so it can be connected to a computer and used to play back General MIDI data that has been purchased, downloaded from the Internet, or obtained from any other source. 1 2 3 4 Log on using an Administrators group account.

See the documentation that comes with Windows 2000 for information about the Administrators group. On the Windows [Start] menu, point to [Settings] and then click [Control Panel]. Click the [System] icon. On the dialog box that appears, click the [Hardware] tab, and then click the [Driver Signing] button. On the dialog box that appears, select [Ignore], and then click [OK].

Changing the Settings This section tells you how to make the settings required when connecting to a computer. NOTE · Company and product names used herein are trademarks of their respective owners. GM MODE (Default: Off) Using the USB port Note that you need to purchase a commercially available USB cable to connect the keyboard to a computer using the USB port. Once you establish a USB connection between the keyboard and a computer, you can exchange data between them. on: Configures the keyboard for optimal General MIDI data play (tone specification matching, etc.) oFF: Returns to default keyboard setup. 1 Press the SETTING button until the GM MODE screen appears. Example: When GM MODE is turned off To connect to a computer using the USB port 1 Use a commercially available USB cable to connect the keyboard to the computer. Computer USB port GM M o d e 2 Use the [+] and [ ] or [0] and [1] buttons to turn the setting on and off. Example: To turn GM MODE on USB cable USB connector Keyboard USB port GM M o d e 628A-E-033A E-31 Connection to a Computer KEYBOARD CHANNEL (Default: 1) The keyboard channel is the channel used to send messages from this keyboard to a computer.

You can specify one channel from 1 to 16 as the keyboard channel. To turn off specific sounds before playing back tune data that is being received <<Navigate channel on/off>> 1 While playing tune data, press the RIGHT button. · This cuts the sound of the navigate channel, but onscreen keyboard guide keys continue to light in accordance with the channel's data as it is received. Press RIGHT button again to turn the channel back on. 1 Press the SETTING button until the KEYBOARD CHANNEL screen appears. Ke y b d Ch 2 Use the [+], [ ], and the number buttons to change the channel number. Example: To specify channel 4 <<Next lower channel from navigate channel on/off>> 1 While playing tune data, press the LEFT button. · This cuts the sound of the channel whose number is one less than the navigate channel, but on-screen keyboard guide keys continue to light in accordance with the channel's data as it is received. Press LEFT button again to turn the channel back on. Example: If the navigate channel is channel 4, the above operation turns off channel 3. Ke y b d Ch NAVIGATE CHANNEL (Default: 4) When messages are received from a computer for play on this keyboard, the navigate channel is the channel whose note data appears on the display. You can select one channel from 01 to 16 as the navigate channel. Since this setting lets you use the data on any channel of commercially available SMF data to light on the on-screen keyboard guide, you can analyze how different parts of an arrangement are played. LOCAL CONTROL (Default: On) oFF: Anything played on the keyboard is output as a message from the USB port, without being sounded by the internal sound source. · Note that no sound is produced by the keyboard if LOCAL CONTROL is turned off and no external device is connected. 1 Press the SETTING button until the NAVIGATE CHANNEL screen appears. 1 Na v i . Ch 2 Use the [+], [ ], and the number buttons [0] through [9] to change the channel number. Example: To specify channel 2 Press the SETTING button until the LOCAL CONTROL screen appears. Example: When LOCAL CONTROL is on Loca l 2 Use the [+] and [ ] or [0] and [1] buttons to turn the setting on and off.

Example: To turn LOCAL CONTROL off Na v i . Ch Loca l E-32 628A-E-034A 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 slider 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. . . . . See page Pages E-12, 13 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-15 Page E-15 Page E-15 Any of the following symptoms while using battery power.

. . . . . Low battery power Pages E-12, 13 Dim power supply indicator Instrument does not turn on Dim, difficult to read display Abnormally low speaker/headphone volume Distortion of sound output Occasional interruption of sound when playing at high volumes · Sudden power failure when playing at high volumes Auto Accompaniment does not sound.



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