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CASIO.

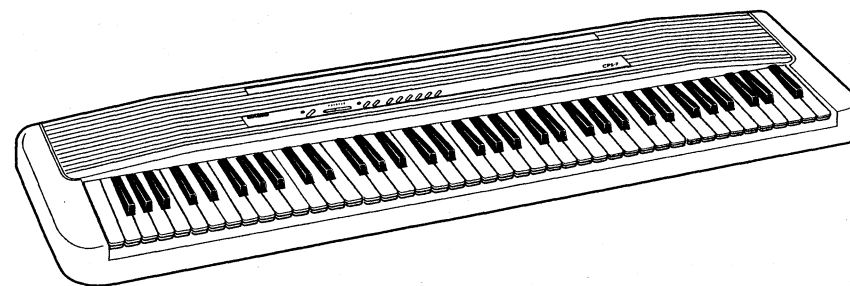
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CPS-7

**ELECTRONIC MUSICAL INSTRUMENT
INSTRUMENTO MUSICAL ELECTRONICO**

**OPERATION MANUAL
MANUAL DE OPERACION**



(英) (西)
CPS7ES-1

CASIO.

Welcome...

To the happy family of satisfied CASIO electronic musical instrument owners! To get the most out of the many features and functions of the CPS-7, be sure to carefully read this manual and keep it on hand for future reference.

Important!

Promptly replace the batteries or use the AC adaptor when the following symptoms occur.

- Dim POWER indicator
- Low volume
- Poor sound quality
- Broken sounds at high volumes
- Sudden power failure when high volume sounds are produced
- Sudden sounds even when the keyboard is not pressed
- Tone does not match selected tone
- Incorrect playback of demo tunes

Please keep all information for future reference.

GUIDELINES LAID DOWN BY FCC RULES FOR USE OF THE UNIT IN THE U.S.A (not applicable to other areas).

NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. 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.

Main Features

☐ Five built-in tones

- Choose from among PIANO 1, PIANO 2, E.PIANO, PIPE ORGAN, and STRINGS to match the music you want to play. You can even layer two tones and play both of them at the same time whenever you press a key.

☐ Five built-in demo tunes

- Demo tunes are built in for each of the available tones.

☐ Touch Response

- Sound output is automatically adjusted in accordance with the amount of pressure you apply to the keyboard, just like with an acoustic piano. You can turn Touch Response on or off any time you want.

☐ Transpose

- A simple operation lets you play in any key you want, without changing your keyboard fingerings.

☐ Tuning

- Adjust the tuning of the CPS-7 to match that of accompanying musical instruments.

☐ MIDI

- MIDI IN and MIDI OUT terminals let you connect to other MIDI equipment.

Cautions Concerning Safety

Symbols

Various symbols are used in this operating manual 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.



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.

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.)



WARNING

Please use caution regarding the handling of the AC adaptor.

- Do not use a voltage other than the indicated power supply voltage. Use of a voltage other than that indicated may cause fire or electrical shock.
- If the power cord should become damaged (exposed wires, disconnection, etc.), please purchase a new AC adaptor. Use of a damaged power cord may cause fire or electrical shock.
- Do not cut or damage the power cord. Also do not place heavy objects on top of it or subject it to excessive heat. Damage to the power cord may cause fire or electrical shock.
- Do not attempt to shape the power cord or subject it to excessive bending, twisting or pulling. This may cause fire or electrical shock.
- Please use the adaptor specified for this instrument. Use of an adaptor other than that which is specified may cause fire, electrical shock or malfunction.



Do not place this instrument, its accessories or separately sold stand in unstable locations.

- Do not place in unstable locations such as unsteady stands or inclined places. This may cause the instrument to drop, tip over or cause injury to the user.

Do not place containers on the instrument containing water or other liquids.

- Do not place the following objects on the instrument. Placing such objects on the instrument may cause fire or electrical shock if they spill and enter the inside of the instrument.
 - Containers filled with water or other liquids (including vases, potted plants, cups, cosmetics and medicines)
 - Small metal objects (including hairpins, sewing needles and coins)
 - Flammable objects

In the event a foreign object should happen to enter the inside of the instrument, please take the following actions:

1. Turn off the power switch of the instrument.
2. Unplug the AC adaptor from the electrical outlet (remove the batteries if the instrument contains batteries).
3. Contact your dealer.

Do not disassemble or modify.

- Do not attempt to disassemble or modify the instrument, its accessories or separately sold products. This may cause fire, electrical shock or malfunction. Inspection, adjustment or repair of internal components should be requested to your dealer.

Do not use if there is an abnormality or malfunction.

- Do not use the instrument if there appear to be abnormalities such as the presence of smoke or abnormal odor. Also do not use the instrument if there appear to be malfunctions such as the power not coming on or sound not being produced. Use under such conditions may cause fire or electrical shock. In such cases, take the following actions immediately. Never attempt to repair the instrument yourself as this is extremely dangerous.
 1. Turn off the power switch.
 2. Unplug the AC adaptor from the electrical outlet (remove the batteries if the instrument contains batteries).
 3. Request repairs to your dealer.

When the instrument has been dropped:

- In the case the instrument has been dropped or damaged, please take the following actions. Continued use may cause fire or electrical shock.
 1. Turn off the power switch of the instrument.
 2. Unplug the AC adaptor from the electrical outlet (remove the batteries if the instrument contains batteries).
 3. Contact your dealer.

Be careful of the bags around children.

- Do not put the bags of the instrument, its accessories and separately sold products over the head. Particular caution is required in homes having small children. This may cause suffocation.



CAUTION

AC Adaptor

- Do not place the power cord in close proximity to heaters or other heating appliances. This may cause the cord to melt leading to possible fire or electrical shock.
- When unplugging the AC adaptor from an electrical outlet, always make sure to pull on the adaptor itself and not the cord. Pulling excessively on the cord may cause it to be damaged or break leading to possible fire or electrical shock.
- Do not touch the AC adaptor with wet hands when it is plugged in. This may cause electrical shock.
- When not using the instrument for an extended period of time such as when traveling, always make sure to unplug the AC adaptor from the electrical outlet for safety reasons.
- After use turn off the power switch of the instrument and unplug the AC adaptor from the electrical outlet.

Batteries

- Improper battery use may cause the batteries to rupture and leak. This may cause injury, malfunction of the instrument or discoloration of furniture and other articles due to adherence of battery liquid. Please observe the following items:
 - Properly install the batteries so that the polarity (+,-) matches that indicated on the instrument.
 - Always make sure to remove the batteries from the instrument when not using for an extended period of time such as when traveling for safety reasons and to prevent leakage of battery liquid.
 - Always use the same type of batteries.
 - Do not combine new batteries with old batteries.
 - Do not dispose of batteries by incineration, short, disassemble or subject to excessive heating.
 - Replace worn out batteries promptly.
 - Never attempt to recharge the batteries.

Transport

- When transporting the instrument, always make sure to unplug the AC adaptor from the electrical outlet and confirm that all other external connections have been disconnected. Only then should the instrument be transported. If the above is not done, the cord may be damaged leading to possible fire or electrical shock.

Care

- When caring for the instrument, always make sure to first unplug the AC adaptor from the electrical outlet for safety reasons. Also remove the batteries if the instrument contains batteries.

Installation Site

- Do not install the instrument in locations of high humidity or heavy accumulation of dust. This may cause fire or electrical shock.
- Do not install the instrument in locations subject to greasy fumes or steam such as in kitchens or near humidifiers. This may cause fire or electrical shock.



Do not get onto the instrument or stand.

- Do not crawl on top of the instrument or stand. Particular caution is required in homes having small children. This may cause the instrument or stand to tip over and break resulting in injury.

Do not place heavy objects on the instrument.

- Do not place heavy objects on the instrument. This may cause the instrument to tip over or break resulting in injury.

Separately Sold Stand

- Carefully assemble the stand by following the assembly instructions of the stand. Once assembled, correctly install the instrument and use properly. If bolts are not securely tightened at their correct locations, or if the instrument is out of position, the stand may tip over or the instrument may fall off the stand leading to possible injury.

Volume

- In the case of using the instrument by itself or combining the instrument with headphones, amplifier or speakers, the volume level produced may cause hearing loss depending on the volume setting. Do not use for an excessive period of time at high volume levels. Please consult a specialist if hearing impairment or ringing of the ears is detected.

Please use authorized Casio products for accessories and separately sold products.

■ Care of your keyboard

- **Do not use the keyboard near a TV or radio.**

Doing so can cause interference with reception of audio or video signals. When this happens, move the keyboard away from the TV or radio.

- **Do not use benzine or other volatile agents to clean the keyboard.**

Use a soft cloth moistened with a weak solution of water and a mild neutral detergent. Wring all excess moisture out of the cloth before wiping the keyboard. Never use benzine, alcohol, thinner, or other volatile agents for cleaning.

Note

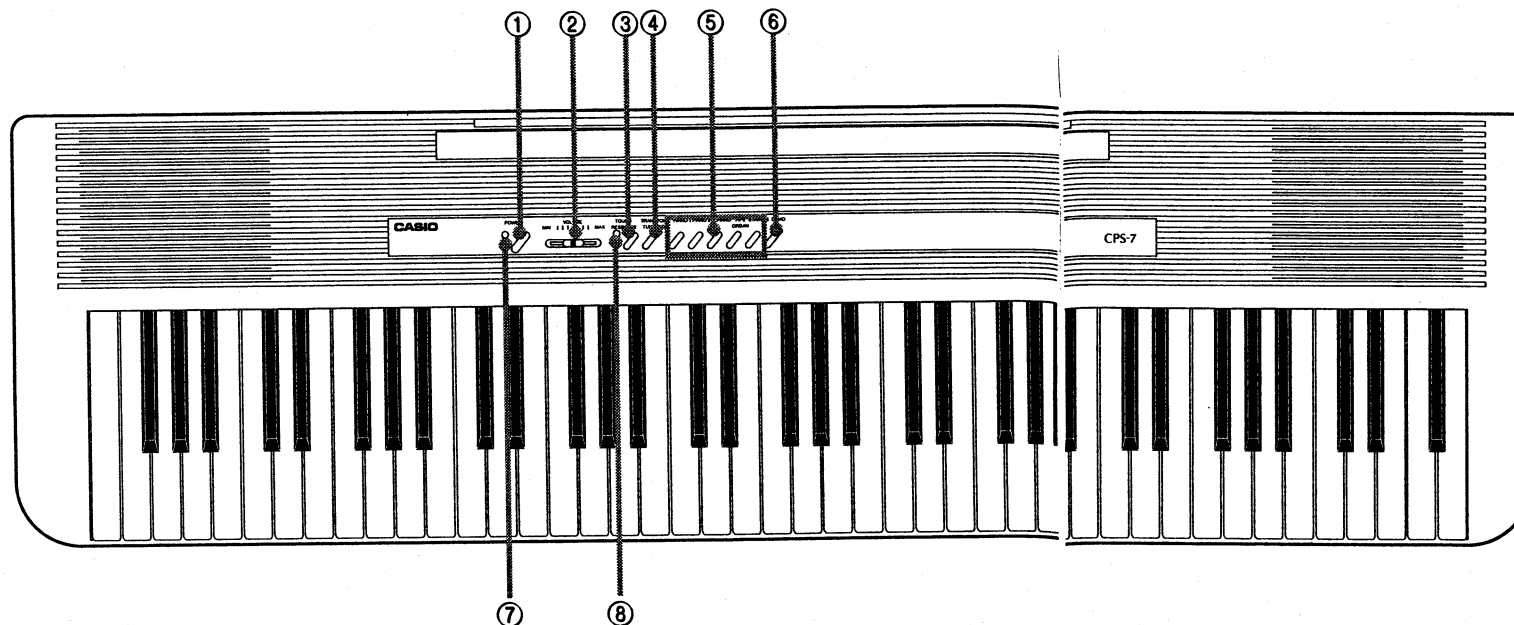
- You may notice lines in the finish of the case of this keyboard. These lines are result of the molding process used to shape the plastic of the case. They are not cracks or breaks in the plastic, and are no cause for concern.

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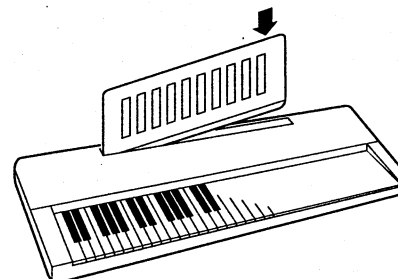
Control Locations



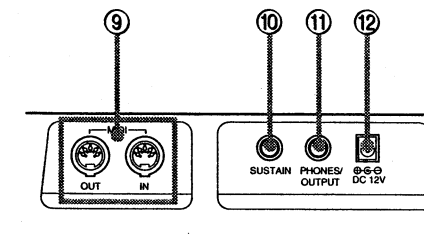
- ① **POWER Button**
- ② **VOLUME Slider**
- ③ **TOUCH RESPONSE Button**
- ④ **TRANSPOSE/TUNE/MIDI Button**
- ⑤ **Tone Buttons**
- ⑥ **DEMO Button**
- ⑦ **POWER Indicator**
- ⑧ **TOUCH RESPONSE Indicator**

Assembling the Music Stand

Firmly press the music stand provided with the keyboard all the way into the groove on the top of the keyboard. (First align the left edge of the music stand with the left end of the groove, press it into the groove, and then press the right edge into the right end of the groove.)



(Rear Panel)



- ⑨ **MIDI OUT/IN Terminals**
For connection of other MIDI instruments and devices.
- ⑩ **SUSTAIN Terminal**
For connection of an optional sustain pedal.
- ⑪ **PHONES/OUTPUT Terminal**
For connection of commercially available headphones. Output from the speakers is automatically cut when headphones are connected.
- ⑫ **DC12V Terminal**
For connection of an optional AC adaptor AD-12.

Before using the keyboard

Be sure to read the contents of this part of the manual before using the keyboard for the first time.

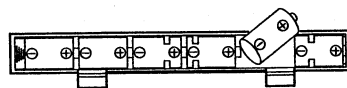
About the power supply

You can power your keyboard with 6 D batteries, or standard AC power (with an optional AC adaptor).

Installing the batteries

This keyboard can be powered by 6 D size (SUM-1/R20P, AM1/LR20) manganese dry cell batteries. Make sure that the unit is turned off when installing batteries.

1. Open the battery compartment cover on the bottom of the unit.
2. Load new batteries as illustrated, taking care that the plus (+) and minus (-) poles are facing in the correct directions.
3. Replace the battery compartment cover.
 - Standard battery life is approximately 4 hours (SUM-1/R20P).



Important!

Promptly replace the batteries or use the AC adaptor when the following symptoms occur.

- Dim POWER indicator
- Low volume
- Poor sound quality
- Broken sounds at high volumes
- Sudden power failure when high volume sounds are produced
- Sudden sounds even when the keyboard is not pressed
- Tone does not match selected tone
- Incorrect playback of demo tunes

Precautions

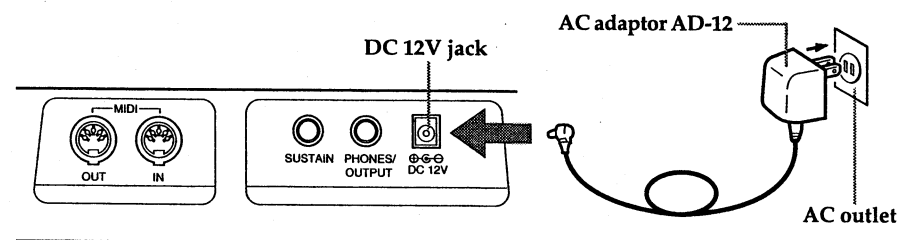
Incorrectly using batteries can cause them to leak or burst, and may damage your unit. Note the following precautions:

- Be sure that the plus (+) and minus (-) poles are facing in the correct directions.
- Do not mix battery types.
- Do not mix new batteries with old ones.
- Never leave dead batteries in the battery compartment.
- Remove batteries when not using the unit for extended periods.
- Never try to recharge the batteries that are specified for the power supply of this unit.

- Do not expose batteries to direct heat, let them become shorted or try to take them apart.
(If a battery leaks, clean out the battery compartment of the unit immediately, taking care to avoid letting the battery fluid come into direct contact with your skin.)

Using AC power

An AC adaptor (AD-12, optional) is required when using household current. Use only genuine CASIO adaptor with the same voltage rating (100, 120, 220, 230 or 240V) as the power supply in your area to prevent damage to internal components. Be sure to turn the power of the unit off before you connect the adaptor to the unit. Plug the AC adaptor into the AC outlet and the cord into the unit. This will automatically cut off the battery power supply.



Important!

- The adaptor may become warm when it is being used. This is normal and does not indicate any problem.
- Be sure to unplug the adaptor from the power source when you are not using the unit.
- Whenever connecting or disconnecting the adaptor, be sure that the power of the unit is switched off.
- Never use a power supply that does not match that specified for the unit. Doing so can damage the adaptor or your unit.

Auto Power Off function

The Auto Power Off function automatically switches power off if you do not perform any operation for about six minutes. You can also use the following operation to cancel the Auto Power Off function so that it does not switch power off.

Note

- The Auto Power Off function is invalid when the keyboard is powered by an AC adaptor.

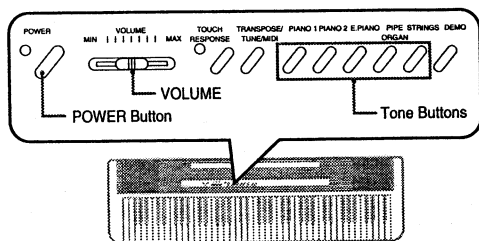
To cancel the Auto Power Off function

While holding down the PIANO 1 button, switch power on.

- The Auto Power Off function remains cancelled until you manually switch power off.

Playing the CPS-7

The following procedure describes the general operation of the CPS-7, from turning on power to selecting a tone.



■ To select a tone and play notes

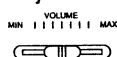
1. Turn power on by pressing the POWER button.



2. Select a tone.
(Here we will select E.PIANO.)



3. Adjust the volume.



- Use a relatively low setting at first.

4. Play something on the keyboard.



- Notes should sound, using the tone that you selected in step 2.
- Adjust the volume to the level you want as you play on the keyboard.

5. After you are finished playing, turn power off by pressing the POWER button.



Note

- The PIANO 1 tone is always selected automatically whenever you turn on the CPS-7.

Polyphony

The CPS-7 is 24-note polyphonic, which means it can play up to 24 notes at the same time.

About the CPS-7's tones

The amazingly real tones produced by the CPS-7 are made possible by a process called "digital sampling". Precision recordings are taken of acoustic musical instruments and stored into memory. Separate recordings are taken of the low, middle, and high ranges of the instrument to ensure optimum playback fidelity. When you press a keyboard key, you are effectively recalling sound data from memory.

- The points that separate the low, middle, and high ranges of a sampled tone are called "split points". If you listen very carefully with some tones, you may be able to notice slight changes in volume or sound quality when you pass a split point. This is a natural result of the sampling process, and does not indicate malfunction.

■ Layering Two Tones

To layer two tones, simply press two tone buttons at the same time when selecting a tone. If you press PIANO 2 and STRINGS at the same time, for example, both tones will sound when you play on the keyboard.



■ Playing Demo Tunes

You can play demo tunes one-by-one, or you can play all of them in sequence.

Demo Tune List

	TITLE	TIME	COMPOSER	TONE button
1	PETIT CHIEN (Valse No.6 Op. 64-1)	1'52	CHOPIN	PIANO 1
2	COZY'S CASTLE	2'06	EDWARD ALSTROM	PIANO 2
3	RED LEAVES	2'53	EDWARD ALSTROM	E.ORGAN
4	TOCCATA & CHORUS	2'07	ARRANGED AND PROGRAMMED BY WOJTEK GOGOLEWSKI	PIPE ORGAN
5	RAINBOW	1'58	CASIO Original	STRINGS

To play the demo tunes

1. Press DEMO to start demo tune play.

- Demo tune play starts from tune number 1.
- To select a different demo tune, press the tone button whose tone is used for the demo tune (see table above).
- You can play along on the keyboard as demo tunes play.

2. To stop demo tune play, press the DEMO button again.

Notes

- Demo tunes play in tune number sequence, and repeat until demo tune play is turned off. If you do not select a different tune, demo tunes play in sequence. After tune number 5, tune number 1 plays again.
- You can play notes on the keyboard while demo tunes are playing.

■ Touch Response

Touch Response automatically adjusts the volume of sound output in accordance with how much pressure you apply to the keyboard, just like an acoustic piano.

To turn Touch Response on and off

Press the TOUCH RESPONSE button to switch Touch Response on and off.

- When Touch Response is off, sound output is the same no matter how much pressure you apply to the keyboard.

Note

- Touch Response generally does not work very well with PIPE ORGAN and STRINGS.

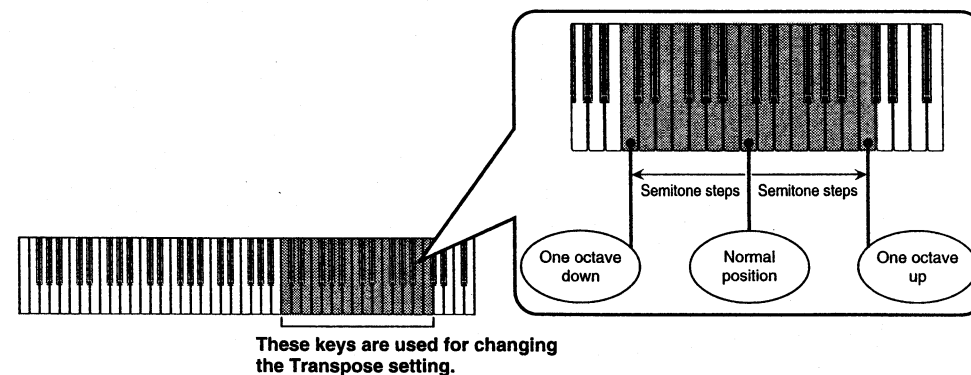
■ Transpose

The Transpose feature lets you adjust the tuning of the CPS-7 by semitone steps, over the range of a full octave. For example, you can use Transpose to change the tuning of the CPS-7 to match the key of a person's voice. Then you can finger notes and chords as you normally do, but the output will be in the key you specified using Transpose.

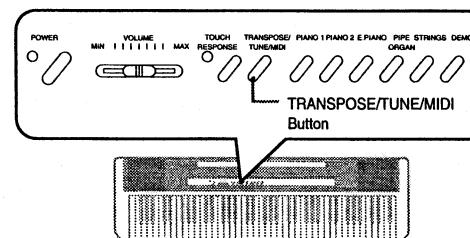
Transpose Range

Number of Levels: 25 (+/- 1 octave)

Setting Method: Using the keyboard keys in the range indicated in the illustration below.



To change the Transpose setting



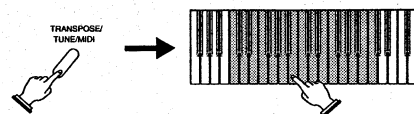
1. Hold down the TRANSPOSE/TUNE/MIDI button.



2. Adjust the Transpose setting.

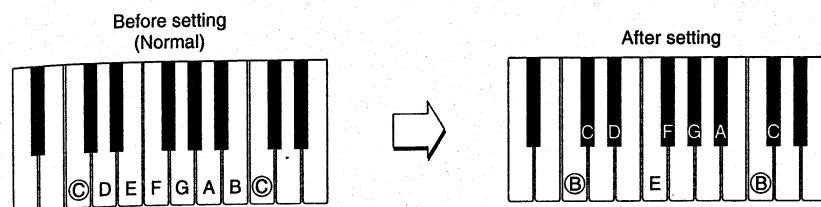
- While still holding down the TRANSPOSE/TUNE/MIDI button, press the keyboard key for the Transpose setting that you want.

<Example> To lower the key by one semitone.



3. Complete the procedure.

- Release the TRANSPOSE/TUNE/MIDI button and the keyboard key.



Notes

- The CPS-7's key is automatically returned to normal during play of a demo tune.
- After demo tune play, the CPS-7 reverts to the key in effect prior to demo tune play.
- You cannot change the Transpose setting while demo tune play is in progress.
- The setting returns to the normal position (key of C) whenever power is turned off and then back on again.

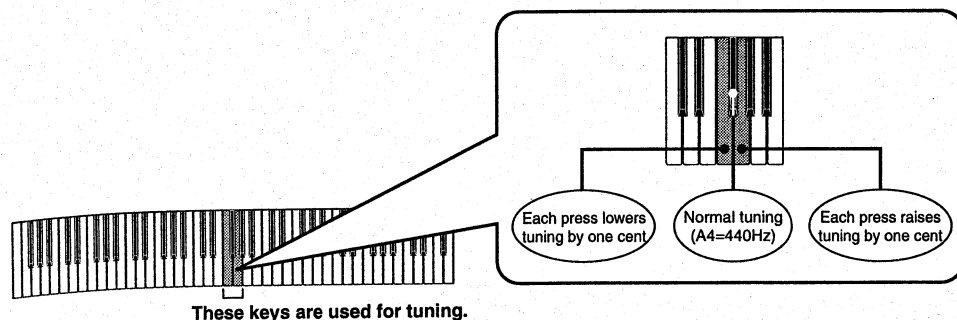
■ Tuning the CPS-7

You can tune the CPS-7 to match the tuning of another musical instrument or to play along with music being played back from a compact disc or other recording.

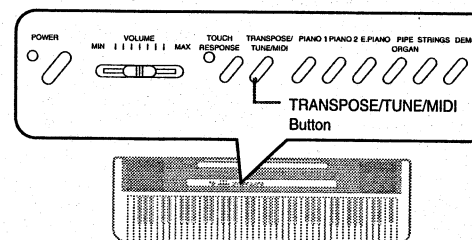
Tuning Range

Number of Levels: 101 (± 50 cents)

Setting Method: Using the keyboard keys in the range indicated in the illustration below.



To change the tuning of the CPS-7



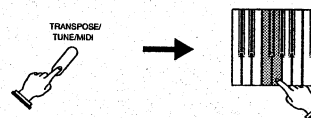
1. Hold down the TRANSPOSE/TUNE/MIDI button.



2. Adjust the tuning.

- While still holding down the TRANSPOSE/TUNE/MIDI button, use the keyboard keys to change the tuning.

<Example> To raise the tuning.



3. Complete the procedure.

- Release the TRANSPOSE/TUNE/MIDI button and the keyboard key.

Notes

- CPS-7 tuning is automatically returned to normal during play of a demo tune.
- After demo tune play, the CPS-7 reverts to the tuning in effect prior to demo tune play.
- You cannot change the tuning while demo tune play is in progress.
- The keyboard returns to normal tuning (A4 = 440Hz) whenever power is turned off and then back on again.

MIDI

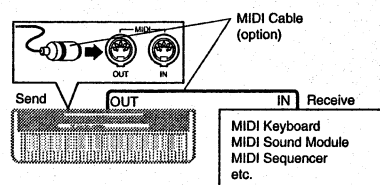
■ What is MIDI?

"MIDI" stands for Musical Instrument Digital Interface, which is a worldwide standard for the exchange of digital signals produced by electronic musical instruments and devices. MIDI lets you easily exchange data with other MIDI devices, regardless of maker or model.

■ What the MIDI Mode allows you to do

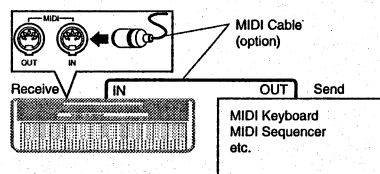
Send

- You can connect to a MIDI device to sound the notes you play on the keyboard. This provides you with the means of playing two or more instruments at once, for richer sound and expanded versatility.
- You can connect to a sound module*1 to provide you with a wider selection of tones.
- You can connect to a commercially available MIDI sequencer*2 to record your keyboard play.



Receive

- You can connect to a MIDI device and sound notes played on the device using the keyboard's tones.
- You can connect to a commercially available MIDI sequencer*2 to play back on your keyboard. With this configuration, you can simultaneously play multiple parts (up to 8 parts) as they are received.



*1 A sound source that can be controlled by an external MIDI device.

*2 An external module that performs recording capabilities. Using a sequencer that can store data on disks or cards provides you with virtually unlimited storage for your recordings.

Ranges

MIDI is able to generate 128 scales from C-1 through G9. Although this instrument contains tones above and below the 76 keys (76 scales) provided on the keyboard, it does not accommodate all 128 scales capable of being generated by MIDI systems. When sounds have been received that are either higher or lower than the sound range of this instrument, it will be replaced with the same note of the next closest sound that can be generated by this instrument (namely, the same note one octave higher or lower).

- The sound ranges provided by this instrument vary according to the tone (see "Note Table" on page E-29).

■ Tone Changes

Whenever a tone change is made on the sender, the tone is also changed on the receiver as long as the receiver is equipped with a tone that has the same program number as the tone that was changed to.

CPS-7 Program Numbers

0	1	2	3	4
PIANO 1	PIANO 2	E.PIANO	PIPE STRINGS	ORGAN

○ ○ ○ ○ ○

- When the CPS-7 is the receiver, for example, a change to a tone assigned program number 4 causes the CPS-7 tone to change to STRINGS.
- The CPS-7 does not change tones if a program number greater than 4 is received.
- When the CPS-7 is the send, for example, changing its tone to E.PIANO sends out MIDI data indicating that the tone assigned program number 2 is selected.

■ Demonstration Program

- The contents of the demonstration program cannot be transmitted.
- Reception of other data cannot be performed while the demonstration program is playing.

■ Touch Response

- When this instrument is being used to send MIDI transmissions, pressure changes are also transmitted even when TOUCH RESPONSE is turned OFF.
- When this instrument is being used to receive MIDI transmissions, the received transmissions are played without pressure changes when TOUCH RESPONSE is turned off.

■ Transpose

- When the CPS-7 is the sender, data is sent as non-transposed data (at the original keyboard pitch).
- When the CPS-7 is the receiver, notes are sounded using the current local Transpose setting.

■ Tuning

- When the CPS-7 is the sender, data is sent as non-tuned data (at the original keyboard tuning).
- When the CPS-7 is the receiver, notes are sounded using the current local Tuning setting.

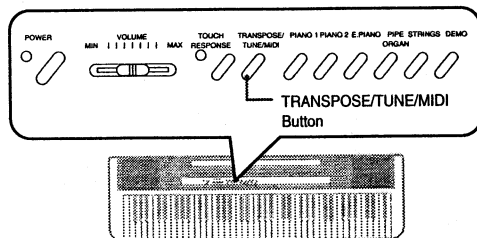
■ Pedal Effects

Effect data produced using the optional Sustain Pedal (page E-11) can also be sent and received. If you send soft pedal data from a connected MIDI device, the sound produced by the CPS-7 is adjusted in accordance with the received data.

■ MIDI Implementation Chart

The chart at the end of this manual provides a summary of the manner in which transfer of data is to be implemented between this instrument and MIDI equipment. This chart provides a technical description of the specifications of this instrument explained here in accordance with the prescribed format common to MIDI equipment.

■ Setting the Basic Channel

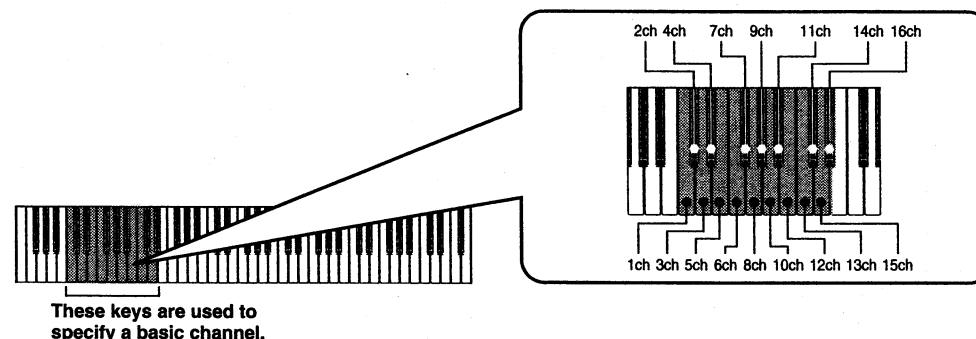


MIDI data is sent and received using channels numbered 1 through 16. The following procedure lets you change the send channels used for MIDI data (key on/off data, tone change data) produced when you play the keyboard.

Basic Channel Setting Range

Channel Range: 1 to 16

Setting Method: Using the keyboard keys in the range indicated in the illustration below.



To specify the basic channel

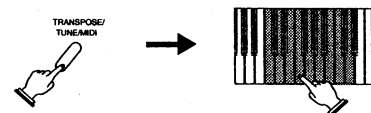
1. Hold down the TRANSPOSE/TUNE/MIDI button.



2. Specify the basic channel.

- While still holding down the TRANSPOSE/TUNE/MIDI button, press the keyboard key for the channel you want to specify.

<Example> To specify Channel 6.



3. Complete the procedure.

- Release the TRANSPOSE/TUNE/MIDI button and the keyboard key.

Important!

- With the CPS-7, you cannot change the received channels. If you want to receive data using specific channels, specify the send channels on the sending unit.
- The basic channel is always set to Channel 1 whenever you turn on the CPS-7.

MIDI Channel Allocation

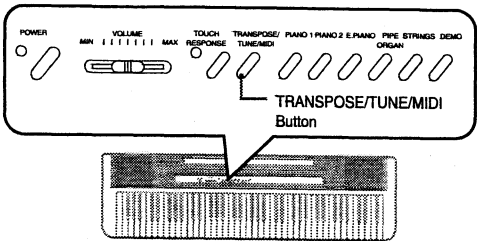
	Normal Mode	Demo play
1ch	Keyboard Tone	Keyboard Tone
2ch	Layer Tone*	
3ch		
4ch		
5ch		
6ch		
7ch		
8ch		

* MIDI Channel Allocation for Layer Tones

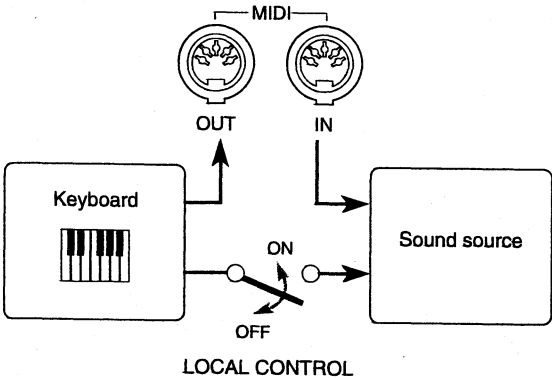
MIDI Channel Allocation when layering two tones

Channel	
1ch	2ch
PIANO1	PIANO 2
PIANO 1	E.PIANO
PIANO 1	PIPE ORGAN
PIANO 1	STRINGS
PIANO 2	E.PIANO
PIANO 2	PIPE ORGAN
PIANO 2	STRINGS
E.PIANO	PIPE ORGAN
E.PIANO	STRINGS
PIPE ORGAN	STRINGS

Local Control On/Off



You can use local control to specify whether keyboard play should be output through MIDI OUT only, or whether they should be applied to the local sound source (the instrument you are playing).

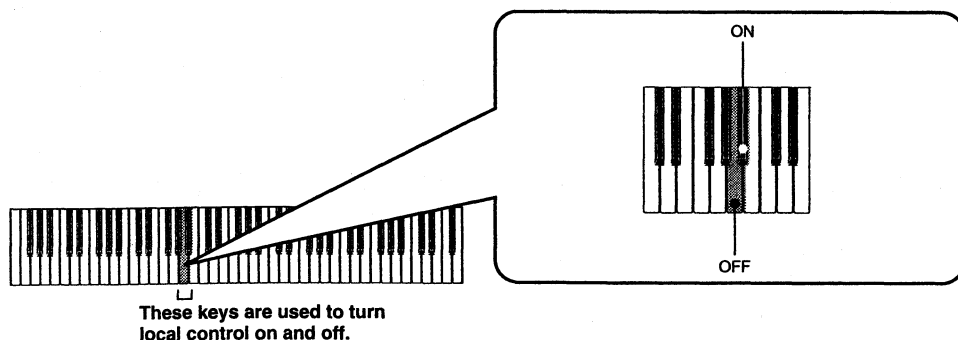


Local control is normally switched on, and it is always switched on automatically whenever you switch the power of the keyboard on. When local control is switched off, playing the keyboard does not affect the keyboard itself, but only affects the connected MIDI device.

To turn local control on and off

Settings: On/Off

Setting Method: Using the keyboard keys in the range indicated in the illustration below.



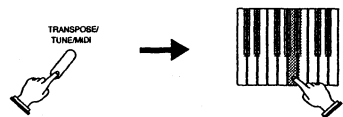
1. Hold down the TRANSPOSE/TUNE/MIDI button.



2. Turn local control on or off.

- While still holding down the TRANSPOSE/TUNE/MIDI button, press the keyboard key for the setting you want.

<Example> To turn local control off.



3. Complete the procedure.

- Release the TRANSPOSE/TUNE/MIDI button and the keyboard key.

Notes

- If you are using the CPS-7 as a stand-alone unit, nothing will be produced from its speakers if local control is off.
- Local Control turns on whenever:
 - * Keyboard power is turned on.
 - * Demo tune play is started.

Technical Reference

Troubleshooting

Problem	Possible Causes	Action
No sound when playing the keyboard.	<ol style="list-style-type: none"> 1. Power supply problem. 2. Headphones or a cable is connected to the PHONES/OUTPUT terminal. 3. Low volume or expression value received from an external source. 4. Local control is off. 	<ol style="list-style-type: none"> 1. Correctly connect the AC adaptor or make sure that batteries are loaded correctly. Check for dead batteries. 2. Disconnect the headphones or cable from the PHONES/OUTPUT terminal. 3. Use an appropriate value for volume or expression, or turn power off and then back on again. 4. Turn local control on.
No sound from connected MIDI sound source.	<ol style="list-style-type: none"> 1. Power supply problem. 2. CPS-7 basic channel does not match basic channel of MIDI sound source. 3. External equipment's volume or expression is set to 0. 	<ol style="list-style-type: none"> 1. Correctly connect the AC adaptor or make sure that batteries are loaded correctly. Check for dead batteries. 2. Set the basic channels of both units so they match. 3. Use an appropriate value for external equipment's volume or expression.
Any of the following symptoms while using battery power. <ul style="list-style-type: none"> • Dim POWER indicator • Low volume • Poor sound quality • Broken sounds at high volumes • Sudden power failure when high volume sounds are produced • Sudden sounds even when the keyboard is not pressed • Tone does not match selected tone • Incorrect playback of demo tunes 	Low battery power.	Replace batteries with new ones. Use the AC adaptor.

■ Specifications

Model:	CPS-7
Keyboard:	Number of Keys: 76 (6.5 octaves) Touch Response: On/off switching
Polyphony:	24 (maximum)
Number of Tones:	5
Demo Songs:	5 songs 1. PETOT CHIEN 2. COZY'S CASTLE 3. RED LEAVES 4. TOCCATA & CHORUS 5. RAINBOW
Others:	Transpose: ± 1 octave Tuning: Tunable, A4 = 440 Hz ± 50 cents
MIDI:	8-channel, multi-timbral reception
Speakers:	12 cm x 2 (Output 5 W + 5 W)
Terminals:	DC-IN 12V PHONES/OUTPUT: Standard stereo plug, Output impedance 47Ω, Output voltage 2.6V (RMS) max. SUSTAIN jack: Standard plug MIDI: IN, OUT
Power Supply:	2-way AC/DC power sources; Batteries 6 D-size Battery life Approx. 4 hours on R20P (SUM-1) AC Required optional AD-12 AC adaptor
Auto power off:	Approx. 6 minutes after the last operation (cancellable) (Operates during battery use only)
Power Consumption:	12 V --- 18 W
Dimensions:	1161 (W) x 303 (D) x 96 (H) mm (45 11/16" x 11 15/16" x 3 3/4")
Weight:	6.3 kg (13.9 lbs) excluding batteries
Accessories:	Music stand

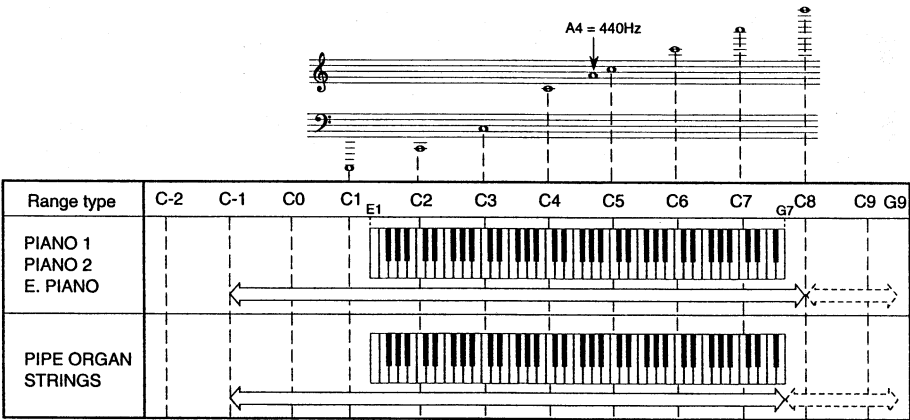
Design and specifications are subject to change without notice.

■ Initial Default settings

The following are the default settings whenever keyboard power is turned on.

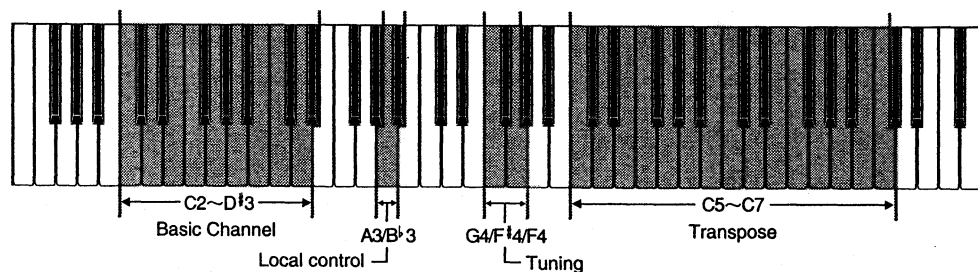
Item	Setting
Tone	PIANO 1
Touch Response	On
Transpose	C
Tuning	A4 = 440Hz
Basic Channel	1 channel
Local Control	On

■ Note Table



- a Range of keyboard play.
- b Playable range. (Transpose, When receiving MIDI data)
- c Range in which same note is played in nearest octave as a result of transpose and MIDI data receive operation. (Transpose, When receiving MIDI data)

■ Setting keys for Transpose, Tuning and MIDI



■ MIDI Send Specifications

Basic Channel	1 to 16
Note Numbers	28 to 103
Note On Velocity	1 to 127 (0 = note off)
Sustain Pedal	Off = 0/On = 127
Program Change	0 to 4

■ MIDI Receive Specifications

Received Data	Contents
Basic Channel	8, multi-timbral
Note Numbers	0 to 127
Note On Velocity	1~127 (0 = note off)
Note Off Velocity	0 to 127*
Modulation	0 to 127
Volume	0 to 127
Pan	0 (left) to 64 (center) to 127 (right)
Expression	0 to 127
Sustain Pedal	Off = 0 to 63/On = 64 to 127
Sustenueto Pedal	Off = 0 to 63/On = 64 to 127
Soft Pedal	Off = 0 to 63/On = 64 to 127
Program Change	0 to 4
Pitch Bender	0 to 16383

* Only note data is turned off and Velocity data is ignored.

Function ...		Transmitted	Recognized	Remarks
Basic Channel	Default Changed	1 1-16	1-8 1-8	
Mode	Default Messages Altered	Mode 3 X *****	Mode 3 X *****	
Note Number:	True voice	28-103 *****	0-127 0-103 (*1)	(*1) There is defference depend on the tone.
Velocity	Note ON Note OFF	O 9nH v = 1-127 X 9nH v = 0	O 9nH v = 1-127 X 9nH v = 0, 8nH v =(*2)	(*2) This value is ignored.
After Touch	Key's Ch's	X X	X X	
Pitch Bender		X	O	
Control Change	1	X	O	Modulation Volume PAN
	7	X	O	
	10	X	O	
	11	X	O	Expression Sustain Sostenuto Soft pedal
	64	O	O	
	66	X	O	
	67	X	O	
Program Change		O 0~4	O 0~4	
System Exclusive		X	X	
System Common	: Song Pos	X	X	
	: Song Sel	X	X	
	: Tune	X	X	
System Real Time	: Clock	X	X	
	: Commands	X	X	
Aux Messages	: Local ON/OFF	X	X	
	: All notes OFF	X	X	
	: Active Sense	X	X	
	: Reset	X	X	

Mode 1 : OMNI ON, POLY
Mode 3 : OMNI OFF, POLY

Mode 2 : OMNI ON, MONO
Mode 4 : OMNI OFF, MONO

O : Yes
X : No