

# Digital Harpsichord

## C-80

**Owner's Manual**

**Roland®**



For EU Countries

This product complies with the requirements of European Directives EMC 89/336/EEC and LVD 73/23/EEC.

For the USA

### FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT

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.

Unauthorized changes or modification to this system can void the users authority to operate this equipment.  
This equipment requires shielded interface cables in order to meet FCC class B Limit.

For Canada

### NOTICE

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

### AVIS



Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

Digital Harpsichord

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	<b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN	
<b>ATTENTION</b> RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR		
<b>CAUTION:</b> TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		



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



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

**INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS.**

## IMPORTANT SAFETY INSTRUCTIONS SAVE THESE INSTRUCTIONS

**WARNING** - When using electric products, basic precautions should always be followed, including the following:

1. Read all the instructions before using the product.
2. Do not use this product near water — for example, near a bathtub, washbowl, kitchen sink, in a wet basement, or near a swimming pool, or the like.
3. This product should be used only with a cart or stand that is recommended by the manufacturer.
4. This product, either alone or in combination with an amplifier and headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.
5. The product should be located so that its location or position does not interfere with its proper ventilation.
6. The product should be located away from heat sources such as radiators, heat registers, or other products that produce heat.
7. The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product.
8. The power-supply cord of the product should be unplugged from the outlet when left unused for a long period of time.
9. Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
10. The product should be serviced by qualified service personnel when:
  - A. The power-supply cord or the plug has been damaged; or
  - B. Objects have fallen, or liquid has been spilled into the product; or
  - C. The product has been exposed to rain; or
  - D. The product does not appear to operate normally or exhibits a marked change in performance; or
  - E. The product has been dropped, or the enclosure damaged.
11. Do not attempt to service the product beyond that described in the user-maintenance instructions. All other servicing should be referred to qualified service personnel.

For the USA

### GROUNDING INSTRUCTIONS

This product must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock.

This product is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

**DANGER:** Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or serviceman if you are in doubt as to whether the product is properly grounded.


Do not modify the plug provided with the product — if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

For the U.K.

**WARNING:** THIS APPARATUS MUST BE EARTHED

**IMPORTANT:** THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE.  
GREEN-AND-YELLOW: EARTH, BLUE: NEUTRAL, BROWN: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol  or coloured GREEN or GREEN-AND-YELLOW.

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

The product which is equipped with a THREE WIRE GROUNDING TYPE LINE PLUG must be grounded.

# USING THE UNIT SAFELY

## INSTRUCTIONS FOR THE PREVENTION OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

### About ⚠ WARNING and ⚠ CAUTION Notices


<b>⚠ WARNING</b>	Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly.
<b>⚠ CAUTION</b>	Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly. * Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well to domestic animals or pets.

### About the Symbols


<b>⚠</b>	The ⚠ symbol alerts the user to important instructions or warnings. The specific meaning of the symbol is determined by the design contained within the triangle. In the case of the symbol at left, it is used for general cautions, warnings, or alerts to danger.
<b>⊘</b>	The ⊘ symbol alerts the user to items that must never be carried out (are forbidden). The specific thing that must not be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the unit must never be disassembled.
<b>⚡</b>	The ⚡ symbol alerts the user to things that must be carried out. The specific thing that must be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the power-cord plug must be unplugged from the outlet.

### ALWAYS OBSERVE THE FOLLOWING


#### ⚠ WARNING

- Before using this unit, make sure to read the instructions below, and the Owner's Manual. 


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- Do not open or perform any internal modifications on the unit. 


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- Make sure you always have the unit placed so it is level and sure to remain stable. Never place it on stands that could wobble, or on inclined surfaces. 


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- Avoid damaging the power cord. Do not bend it excessively, step on it, place heavy objects on it, etc. A damaged cord can easily become a shock or fire hazard. Never use a power cord after it has been damaged. 


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- In households with small children, an adult should provide supervision until the child is capable of following all the rules essential for the safe operation of the unit. 


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- Protect the unit from strong impact. (Do not drop it!) 


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- Do not force the unit's power-supply cord to share an outlet with an unreasonable number of other devices. Be especially careful when using extension cords—the total power used by all devices you have connected to the extension cord's outlet must never exceed the power rating (watts/amperes) for the extension cord. Excessive loads can cause the insulation on the cord to heat up and eventually melt through. 


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- Before using the unit in a foreign country, consult with your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page. 


#### ⚠ CAUTION

- Always grasp only the plug on the power-supply cord when plugging into, or unplugging from, an outlet or this unit. 


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- Try to prevent cords and cables from becoming entangled. Also, all cords and cables should be placed so they are out of the reach of children. 


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- Never climb on top of, nor place heavy objects on the unit. 


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- Never handle the power cord or its plugs with wet hands when plugging into, or unplugging from, an outlet or this unit. 


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- If you need to move the instrument, take note of the precautions listed below. At least two persons are required to safely lift and move the unit. It should be handled carefully, all the while keeping it level. Make sure to have a firm grip, to protect yourself from injury and the instrument from damage. 
  - Check to make sure the knob bolts securing the unit to the stand have not become loose. Fasten them again securely whenever you notice any loosening.
  - Disconnect the power cord.
  - Disconnect all cords coming from external devices.
  - Close the lid.
  - Fold down the music stand.


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- Before cleaning the unit, turn off the power and unplug the power cord from the outlet (p. 12). 

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- Whenever you suspect the possibility of lightning in your area, pull the plug on the power cord out of the outlet. 

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- Be careful when opening/closing the lid so you do not get your fingers pinched (p. 14). Adult supervision is recommended whenever small children use the unit. 

# Introduction

Thank you, and congratulations on your choice of the Roland Digital Harpsichord C-80.

Before using this unit, carefully read the sections entitled: "IMPORTANT SAFETY INSTRUCTIONS" (p. 4), "USING THE UNIT SAFELY" (p. 5), and "IMPORTANT NOTES" (p. 9). These sections provide important information concerning the proper operation of the unit. Additionally, in order to use this instrument to its fullest potential, and keep it in good condition, please read this owner's manual in its entirety.

## Features of the C-80

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The C-80 has the following features.

### **Classic Design**

The C-80's white/black inverted keyboard and openable lid maintain the traditional styling of the harpsichord.

### **Keyboard with Click**

The keyboard has the same "click" feel as an acoustic harpsichord, making it ideal for use as a practice instrument.

### **Easy Maintenance**

There is no need for maintenance such as changing plectrums or strings. The C-80 will always sound at its best.

### **Accurate and Stable Pitch**

Digital technology means that the pitch is always stable. Re-tuning is never necessary, neither after the instrument is transported, nor in response to temperature changes caused by lighting, etc. You can also tune the instrument to Baroque pitch at the touch of a button.

### **Historical Temperaments are Supported**

In addition to Equal temperament, the C-80 allows you to select Werckmeister, Kirnberger, Vallotti, Meantone, Pythagorean, and Just temperaments at the touch of a button.

### **Reproduce the Sound of a Concert Hall**

The built-in reverb allows you to reproduce the acoustics of performance spaces ranging from a small room to a large hall, simply by turning a knob. You can enjoy concert hall sound with no additional equipment.

### **Volume can be Adjusted as Appropriate for Your Needs**

Since the volume can be adjusted freely, you can play at the ideal volume for your ensemble, or for different situations, whether it be the home, chamber concert, or large hall. Headphones can also be used, allowing you to practice at any time of day or night.

### **High-Quality Sound**

44.1 kHz stereo sampling ensures that every detail of the sound is faithfully reproduced, including the sound of the plectrum on the string.

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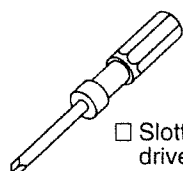
# Before You Begin

## Checking the Included Items

The Digital Harpsichord C-80 package contains the following items.  
If any items are missing, please contact the dealer where you purchased this unit.

- Owner's manual
- Stand / Screw set
- Power cord
- Cover

■ Screw set



Slotted screwdriver (1)

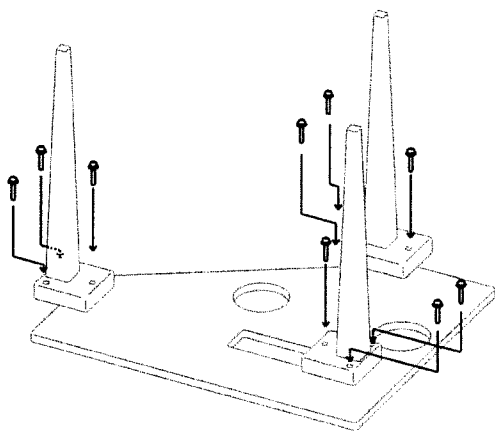


Screws (9)

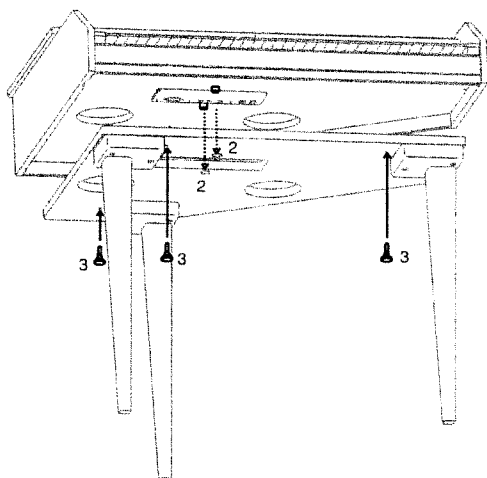


Knob bolts (3)

## Assembling the Stand



- 1.** Use the included screws and a slotted screwdriver to fasten the legs to the stand.



- 2.** Place the instrument so that the two rubber feet located on the bottom of the unit enter the holes in the stand.
- 3.** Insert the three knob bolts for attachment of the included stand through the holes located beside each leg, and tighten them.



# IMPORTANT NOTES

In addition to the items listed under “IMPORTANT SAFETY INSTRUCTIONS” and “USING THE UNIT SAFELY” on pages 4 and 5, please read and observe the following:

## Power Supply

- Do not use this unit on the same power circuit with any device that will generate line noise (such as an electric motor or variable lighting system).
- Before connecting this unit to other devices, turn off the power to all units. This will help prevent malfunctions and/or damage to speakers or other devices.

## Placement

- This device may interfere with radio and television reception. Do not use this device in the vicinity of such receivers.
- Do not expose the unit to direct sunlight, place it near devices that radiate heat, leave it inside an enclosed vehicle, or otherwise subject it to temperature extremes. Also, do not allow lighting devices that normally are used while their light source is very close to the unit (such as a piano light), or powerful spotlights to shine upon the same area of the unit for extended periods of time. Excessive heat can deform or discolor the unit.
- To avoid possible breakdown, do not use the unit in a wet area, such as an area exposed to rain or other moisture.
- Do not allow rubber, vinyl, or similar materials to remain on the piano for long periods of time. Such objects can discolor or otherwise harmfully affect the finish.
- Do not put anything that contains water (e.g., flower vases) on the piano. Also, avoid the use of insecticides, perfumes, alcohol, nail polish, spray cans, etc., near the unit. Swiftly wipe away any liquid that spills on the unit using a dry, soft cloth.
- The lid can be removed by opening it to an angle of greater than 90 degrees. Unless you intend to remove the lid, do not open it more than 90 degrees, since this can be dangerous.

## Maintenance

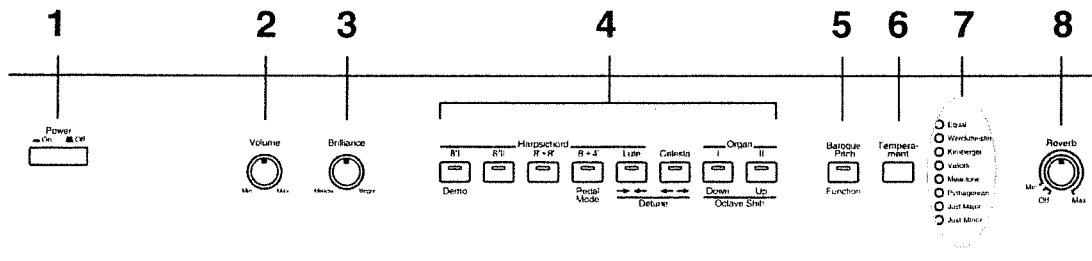
- To clean the unit, use a dry, soft cloth; or one that is slightly dampened. Try to wipe the entire surface using an equal amount of strength, moving the cloth along with the grain of the wood. Rubbing too hard in the same area can damage the finish.
- Never use benzine, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

## Additional Precautions

- Use a reasonable amount of care when using the unit’s buttons, sliders, or other controls; and when using its jacks and connectors. Rough handling can lead to malfunctions.
- When connecting / disconnecting all cables, grasp the connector itself—never pull on the cable. This way you will avoid causing shorts, or damage to the cable’s internal elements.
- A small amount of heat will radiate from the unit during normal operation.
- To avoid disturbing your neighbors, try to keep the unit’s volume at reasonable levels. You may prefer to use headphones, so you do not need to be concerned about those around you (especially when it is late at night).
- When you need to transport the unit, package it in the box (including padding) that it came in, if possible. Otherwise, you will need to use equivalent packaging materials.
- Do not pull the music stand too far forward when setting/releasing its latches.

# Front and Bottom Panels

## ■ Front Panel



### 1. [Power] Switch

This switch turns the power on/off. (p. 12)

### 2. [Volume] Knob

This knob adjusts the volume. (p. 16)

### 3. [Brilliance] Knob

This knob adjusts the tonal character. (p. 16)

### 4. Tone Select Buttons

These buttons select tones. (p. 16)

### 5. [Baroque Pitch] Button

This button lowers the overall pitch by a semitone. (p. 18)  
Use as the [Function] button.

### 6. [Temperament] Button

This button selects the temperament. (p. 18)

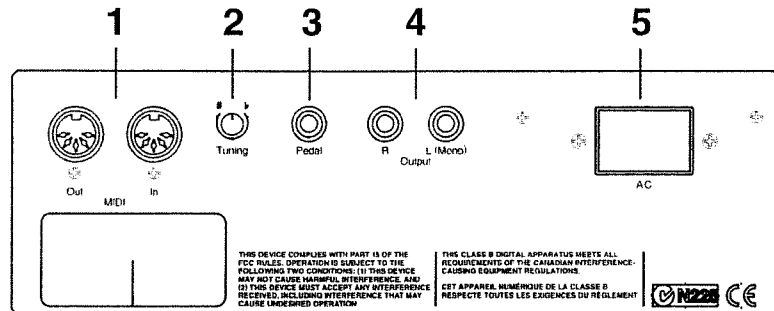
### 7. Temperament Indicator

The indicator for the currently selected temperament will light. (p. 18)

### 8. [Reverb] Knob

This knob applies reverberation, and adjusts the amount. (p. 20)

## ■ Bottom Panel



### 1. MIDI Connectors

Connect MIDI cables to these connectors if you wish to exchange MIDI data with external MIDI devices. (p. 28)

### 2. [Tuning] Knob

This knob adjusts the overall pitch. (p. 21)

### 3. Pedal Jack

Connect an optional pedal to this jack. (p. 23)

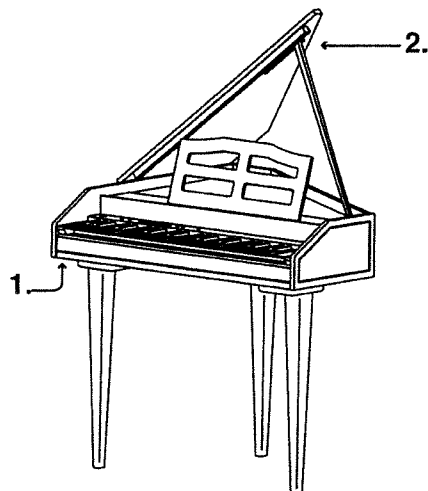
### 4. Output Jacks

Connect cables to these jacks when you wish to play the C-80 through other speakers, or record its sound on a tape recorder. (p. 28)

### 5. AC Inlet

Connect the supplied power cord to this inlet. (p. 12)

## ■ Others



### 1. Phones Jack

A set of headphones can be connected to this jack. (p. 13)

### 2. Lid

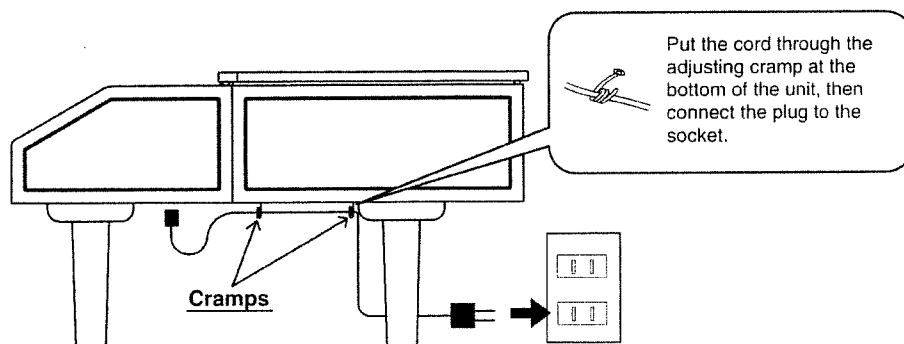
Provides a reflecting surface which projects the sound toward the right, useful when performing on stage. It can be opened at two different angles. (p. 14)

# Preparing to Play

## Connecting the Power Cord

### ► Procedure

1. Turn off the [Power] switch located at the left of the panel.
2. Connect the supplied power cord to the AC inlet located on the bottom panel, and then plug the other end into an AC outlet.



**NOTE** Use only the power cord that was supplied with the C-80.

**NOTE** If you will not be using the C-80 for an extended period, unplug the power cord from the outlet.

## Turning on the Power Switch

Be sure to follow the steps below when turning the power on or off. If this is not done in the correct sequence, you risk causing a malfunction, or even blown speakers.

### ► Procedure

1. Before you turn on the power, rotate the [Volume] knob toward the left to lower the volume.
2. Press the [Power] switch.



**NOTE** This unit is equipped with a protection circuit. A brief interval (a few seconds) after power up is required before the unit will operate normally.

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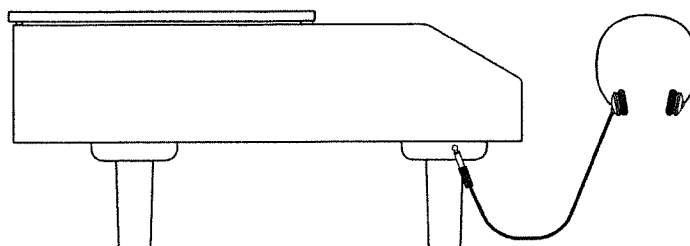
## Using Headphones

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The Phones jack is located at the left of the bottom panel of the C-80. When headphones are connected, no sound will be output from the speakers of the C-80, and only the headphones will be heard. This allows you to practice at times when you do not wish to be heard by others.

► **Procedure**

Insert the plug of your headphones into the Phones jack.



The volume of the headphones can be adjusted with the [Volume] knob.

**NOTE** Use a set of stereo headphones.

**NOTE** Be aware that listening at excessive volume levels or for long periods of time may contribute to hearing loss.

## Opening / Closing the Lid

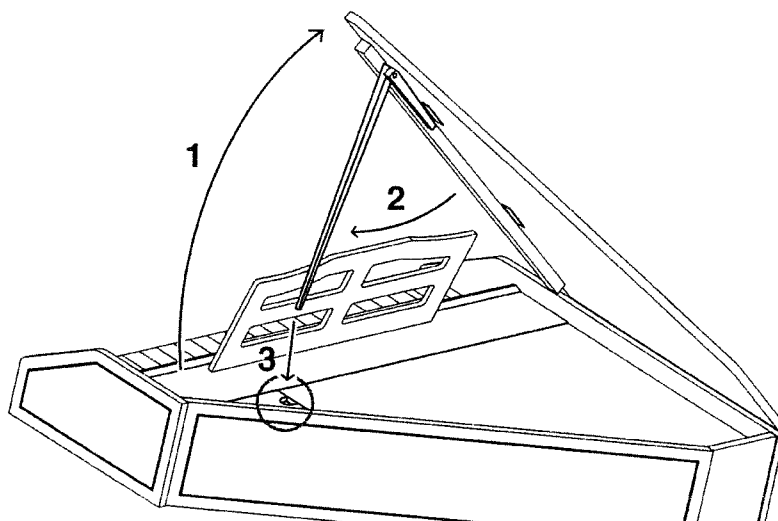
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When you open the lid, the sound will be projected outward, allowing you to enjoy better sound. The lid of the C-80 can be positioned at one of two angles as desired.

### ● Opening the Lid

#### ► Procedure

1. Gently raise the right edge of the lid.
2. Detach one of the two support bars (long or short) that are held by tape to the inside of the lid. (Leave the other bar fastened.)
3. Lower the lid so that the tip of the support bar enters the corresponding socket of the C-80.



### ● Closing the Lid

#### ► Procedure

1. Raise the lid while holding the end of the support bar.
2. Securely fasten the support bar to the inside of the lid, and gently lower the lid.

**NOTE** When you close the lid, be careful not to pinch your hand between the lid and the body of the instrument.

**NOTE** To prevent accidents, be sure to close the lid before moving the C-80.

**NOTE** The lid can be removed by opening it to an angle of greater than 90 degrees. Unless you intend to remove the lid, do not open it more than 90 degrees, since this can be dangerous.

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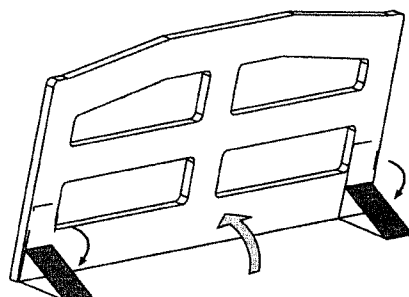
## Raising the Music Stand

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➤ Procedure

Gently raise the music stand, and bend the two metal supports as shown in the following diagram.

To lay the stand back, support the stand with your hand, lift up the metal supports, and gently lower the stand backward.



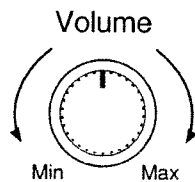
# Basic Operation — Playing

## Adjusting the Volume

### ► Procedure

Use the [Volume] knob to adjust the volume.

Rotating the knob toward the right will increase the volume, and rotating it toward the left will decrease the volume.

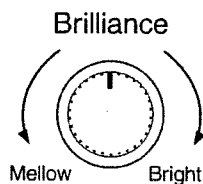


## Adjusting the Tonal Character

### ► Procedure

Use the [Brilliance] knob to adjust the tonal character.

Clockwise rotation adds more brilliance to the tone, while counterclockwise rotation makes it more subdued.



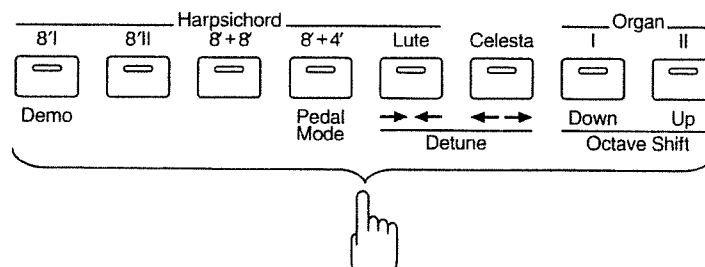
## Selecting a Tone

The C-80 contains celesta and positive organ sounds in addition to harpsichord sounds. You can select and play these sounds.

### ► Procedure

Press the tone select button for the desired sound.

The indicator will light, and that tone will be selected.





You can select a desired sound from a total of eight sounds, organized in three groups (harpsichord, celesta, and organ).

## Harpsichord

### 8'I

The 8' sound of the lower keyboard—the basic sound of a harpsichord.

### 8'II

The 8' sound of the upper keyboard—a bright and distinctive sound with the plectrum closer to the bridge.

### 8'+8'

The sound of the 8' upper keyboard and 8' lower keyboard linked by a coupler.

### 8'+4'

The sound of the 8' lower keyboard linked with the 4' (one octave higher) sound.

### Lute

The sound of a muted 8' upper keyboard.

## Celesta

The sound of a celesta.

## Organ

### I

The sound of a positive organ (Nason Flute 8').

### II

The sound of a positive organ (Principal 8'+4').

## ● Selecting Two Tones Simultaneously

You can also layer two sounds between the three tone groups, and play them simultaneously.

Example) 8'I and organ I, 8'+4' and celesta, celesta and organ II etc.

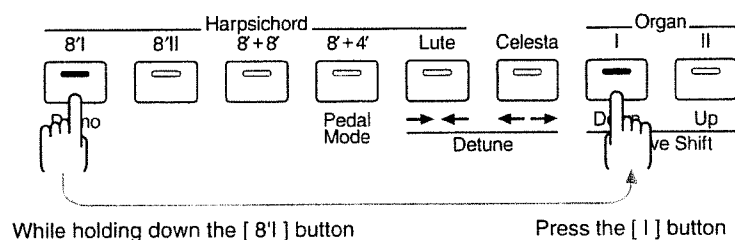
### ► Procedure

**While pressing one of the tone buttons, press the button of the other tone that you wish to play.**

The indicators of both buttons will light, and you will be able to play both sounds simultaneously.

It is not possible to layer sounds within the same group (8'I and Lute, for example).

[e.g.] To add Organ I to Harpsichord 8'I



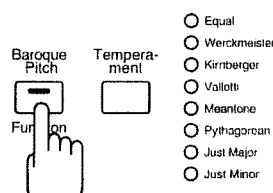
## Using Baroque Pitch

The standard pitch can be changed from A=440 Hz (when the Tuning knob is in the center position) to the A=415 Hz pitch that is often used as Baroque pitch.

### ► Procedure

Press the [Baroque Pitch] button.

The indicator will light, and the overall pitch will drop by a semitone (100 cents).



To return to the original pitch, press the same button once again.

**MEMO** *If you wish to use other pitches, refer to "Tuning" (p. 21) or "Transposing the Keyboard" (p. 25).*

## Selecting a Temperament

The C-80 allows you to change the temperament simply by pressing a button.

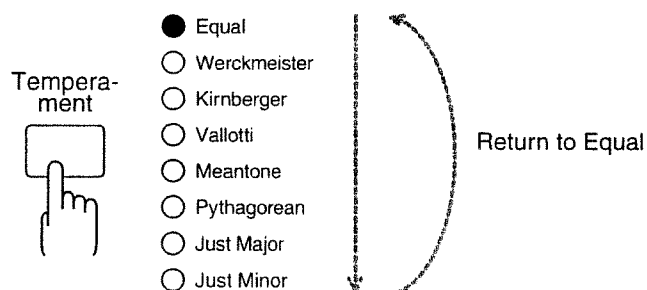
### ■ How to Select a Temperament

#### ► Procedure

Repeatedly press the [Temperament] button until the indicator for the desired temperament lights.

Hold down the [Temperament] button, and the indicators for the various temperaments you can select from will successively go into the blinking state. When the indicator for the temperament you want is blinking, release your finger from the button. That temperament will then be placed in effect.

After advancing to Just Minor, you will return again to Equal.



**MEMO** *At power-up, the unit always reverts to Equal, the default temperament.*

You can select one of the following eight temperaments:

**Equal**

This is the most widely used temperament, where all notes are spaced equally.

**Werckmeister**

This is Werckmeister temperament, type 1-3.

This temperament offers greater freedom of transposition than Meantone, and is designed for chordal playing in compositions whose key signature has few accidentals, or for melodic playing in compositions whose key signature has many accidentals.

**Kirnberger**

This is Kirnberger temperament, type 3.

This temperament is an improvement of Meantone or Just intonation, and along with Werckmeister is frequently used in performances.

**Vallotti (Young)**

Like the above two temperaments, this also allows modulation, and is closer to Equal temperament with less idiosyncrasy. Young modified Vallotti's temperament by changing the root note to G. (Refer to "Changing the Root Note," p.20)

Vallotti is suitable for flat key signatures such as the key of F major or B flat major, and Young is suitable for sharp key signatures such as D major or E major.

**Meantone**

This temperament is a partial compromise from Just intonation in order to allow modulation to a different key. It also allows you to perform in keys having up to three ♯ or two ♭, with acoustical results that are quite similar to Just intonation.

**Pythagorean**

This temperament provides pure fourths and fifths.

**Just Major (Just intonation in a major mode)**

This temperament provides pure thirds and fifths.

Chords in this temperament will resonate beautifully, but since the scale is irregular, it is unsuited for melodic playing. Also, the root note (the base note of the scale) must be switched according to the key of the composition you are playing, making this temperament unsuitable for compositions which modulate to a different key.

**Just Minor (Just intonation in a minor mode)**

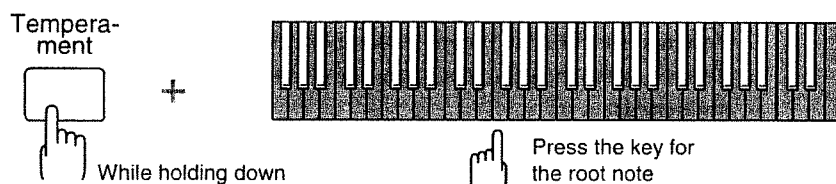
The same result as Just Major can be obtained in a minor key.

## Changing the Root Note

You must specify the root note to match the key in which you wish to play.

### ► Procedure

Hold down the [Temperament] button, and play the key for the desired root note.



**MEMO** When the power is turned on, the key of C will always be selected.

**MEMO** It is possible to change the root note even when the temperament except for Equal temperament is selected. However, for temperaments that allow modulation (Werckmeister, Kirnberger, Vallotti, etc.), you will normally use the default setting of C.

**MEMO** The root note that is specified by this operation will not change even if you change the temperament. When performing in an ensemble, discrepancies in pitch may result when you switch the temperament or the root note. On the C-80, the pitch of other notes is always adjusted relative to the pitch of the A note.

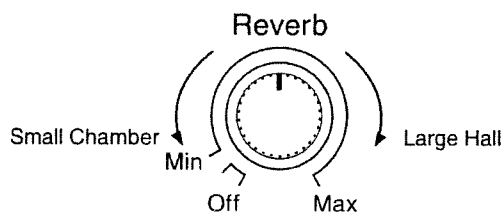
## Adding Reverberation (the Reverb Effect)

Reverb is an effect which simulates the reverberation that is heard as a result of sound reaching the ear after reflecting off the walls or other surfaces of the room or hall (in addition to the sound that reaches the ear directly from the instrument). The C-80 allows you to produce a range of reverberation from that of small rooms to large halls, simply by turning a single knob.

### ► Procedure

Use the [Reverb] knob to adjust the amount of the reverb effect.

Rotating the knob toward the right will simulate the reverberation of a larger hall, and rotating it toward the left will simulate the reverberation of a smaller chamber. When the knob is rotated all the way toward the left, there will be no reverb effect.



**MEMO** When performing in a location with good natural reverberation, such as in a concert hall, put this knob at the Off position to take advantage of the natural reverberation.

## Tuning

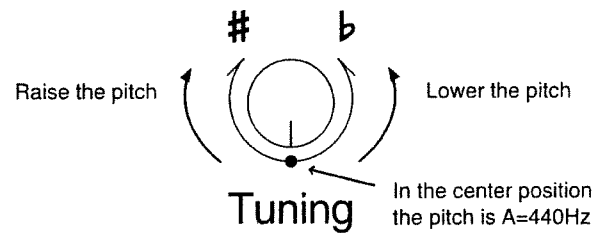
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The C-80 can be tuned to the pitch of other instruments.

### ► Procedure

Use the [Tuning] knob located on the bottom panel to adjust the pitch.

When the knob is in the center position, the pitch will be A=440 Hz. Rotating the knob toward the # mark will raise the pitch, and rotating it toward the ♭ mark will lower the pitch. The range of adjustment is  $\pm 1/2$  semitone (50 cents).



#### MEMO

When Baroque pitch is ON, the range of adjustment will be  $\pm 1/2$  semitone relative to A=415 Hz. Refer to "Using Baroque Pitch" (p. 18).

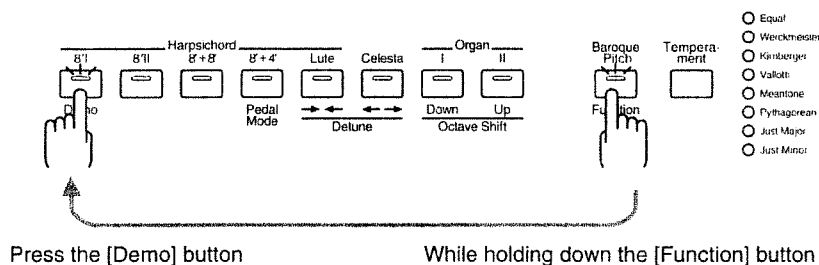
# Listening to the Demo Songs

The C-80 contains three demo songs, each appropriate for one of the three tone groups. The demo songs can be used for sound checks in a concert hall, or when you wish to listen to the C-80 for background music.

## ► Procedure

### 1. Hold down the [Function] button, and press the [Demo] button.

The [Demo] button indicator and the [Function] button indicator will blink, and demo playback will begin.



### 2. During playback, you can advance to the next song by pressing the [Demo] button.

### 3. To stop playback, press the [Function] button.

The three songs will continue playing in succession until you stop the playback.

**NOTE** It is not possible to play the keyboard while the demo song is playing.

## Demo Songs

### ● Harpsichord

Song Title "Air with Variation" from Harpsichord Suite in B-Flat Major  
 Composer G.Händel  
 Temperament Werkmeister C

### ● Celesta

Song Title "Anitra's Dance" from "Peer Gynt Suite No. 1"  
 Composer E. Grieg  
 Temperament Equal

### ● Organ

Song Title Aria Sebalдина  
 Composer J. Pachelbel  
 Temperament Meantone A $\flat$

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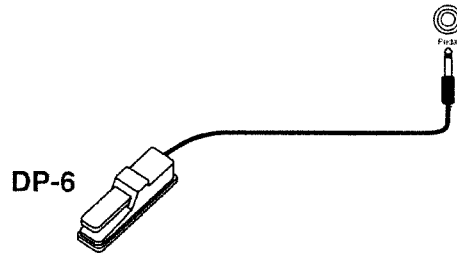
**NOTE** All rights reserved. Unauthorized use of this material for purposes other than private, personal enjoyment is a violation of applicable laws.

**NOTE** No data for the music that is played will be output from MIDI Out.

# Getting the Most out of the C-80

## Using the Pedal

If you connect a separately available pedal switch (such as the DP-6 or DP-2) to the Pedal jack located on the bottom panel, you will be able to use pedal functions.



The pedal can perform the following two functions

- **Hold pedal**

In the same way as the damper pedal of a piano, pressing the pedal will allow notes to be sustained even after you release your finger from the key.

- **Tone select pedal**

By pressing the pedal you can alternate between two tones.

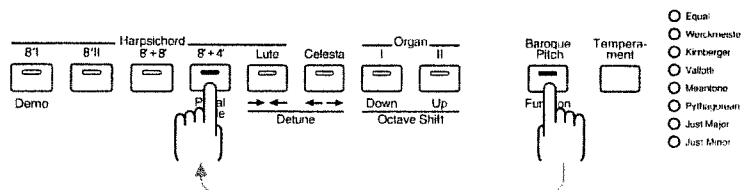
**MEMO** When the power is turned on, the pedal will function as a Hold pedal.

## ■ Using as a Tone Select Pedal

### ► Procedure

#### 1. Hold down the [Function] button, and press the [Pedal Mode] button.

The [Pedal Mode] button indicator will light.



Press the [Pedal Mode] button While holding down the [Function] button

#### 2. Press the two desired tone buttons in sequence.

This will specify the tones that will be selected.

Each time you press the pedal, you will alternate between these two sounds. If you press only one button, you will alternate between that tone and the previously selected tone.

Once again press the [Function] button and the [Pedal Mode] button. The [Pedal Mode] button indicator will go dark, and you will return to the Hold pedal function.

**NOTE** If you perform this procedure, the pedal switch cannot be used as a Hold pedal.

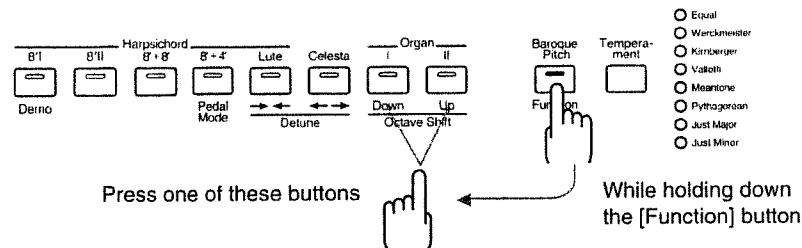
## Raising / Lowering the Keyboard by an Octave

If the compass of the keyboard is insufficient, you can raise or lower the entire keyboard by one octave to access the desired range of pitches.

### ► Procedure

Hold down the [Function] button, and press either the [Up] button or the [Down] button.

The indicator of the button you pressed will light, and the pitch of the keyboard will change.



### [Up] button

The keyboard will be pitched one octave higher than normal.

To return to the normal pitch, hold down the [Function] button and press [Down]. The [Up] button indicator will go dark, and the pitch will return to normal.

### [Down] button

The keyboard will be pitched one octave lower than normal.

To return to the normal pitch, hold down the [Function] button and press the [Up] button. The [Down] button indicator will go dark, and the pitch will return to normal.

**MEMO** Even if you select a different sound, the raised or lowered octave status will not change.

**MEMO** When the power is turned on, the keyboard will be pitched normally.

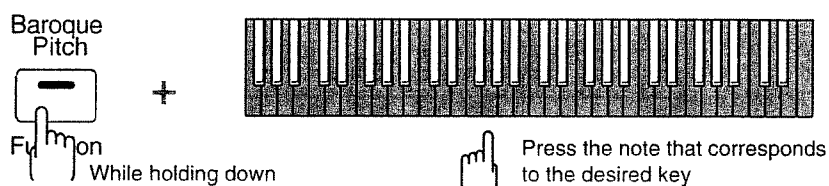


## Transposing the Keyboard

You can transpose your performance without changing the keys that you play. This is referred to as the Key Transpose function.

### ► Procedure

Hold down the [Function] button, and press the note that corresponds to the desired key.



For example if you want the  $E\flat$  pitch to sound when you play the C key, you would hold down the [Function] button and press the  $E\flat$  key.

To return to the normal pitch, use the same procedure, but push the C key.

*The range available for transposition is from -6 semitones ( $F\sharp$ ) to +5 semitones ( $F$ ), when C note in the key of C major is the basic note. Although you can obtain a transposition by pressing any key, the pitch will be adjusted so it fits the acceptable range.*

**MEMO**

*When the power is turned on, the keyboard reverts to the normal (un-transposed) state.*

**MEMO**

*If you wish to use  $A=392$  Hz as Baroque Pitch, use this function to specify a transposition of  $B\flat$ . In this case, leave the Baroque pitch (p. 18) is OFF.*

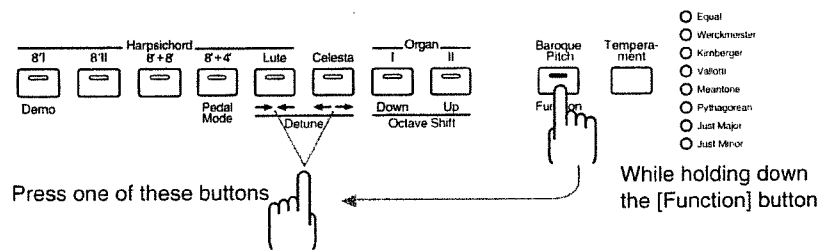
**MEMO**

## Detuning the Two Pitches of 8'+8' or 8'+4' Sound

When you have selected the Harpsichord 8'+8' or 8'+4' sounds, you can create a slight variance in the tuning of the two pitches. This function is referred to as Detune. The amount of detuning can be adjusted over eight steps.

### ► Procedure

Hold down the [Function] button, and press either the [←→] button or the [→←] button.



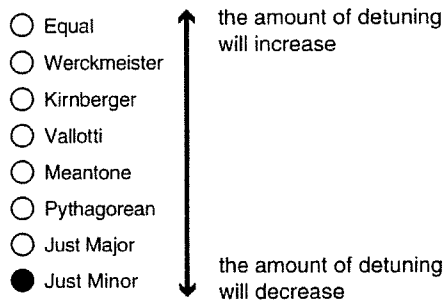
### [←→] button

Each time you press the button, the amount of detuning will increase.

### [→←] button

Each time you press the button, the amount of detuning will decrease.

When you are performing this procedure, the Temperament indicator will show the amount of detuning. When only the lowest indicator is lit, the minimum detuning (no detuning) is selected. When all indicators are lit, the maximum detuning is selected.



**MEMO** When the power is turned on, the minimum is selected.

**NOTE** This setting has no effect if a sound other than Harpsichord 8'+8' or 8'+4' is selected.

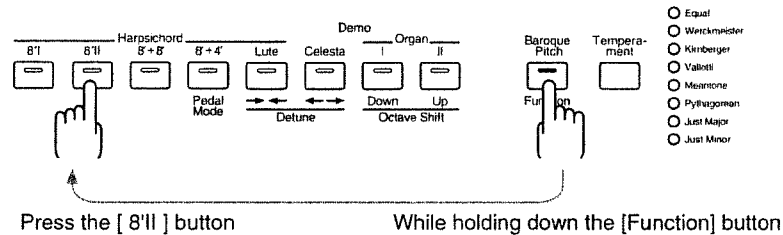
## Muting the Note Off Click

With harpsichord sounds, releasing a key will produce the sound of the plectrum brushing past the string. You can mute (silence) this sound if desired.

### ► Procedure

Hold down the [Function] button, and press the [8'II] button.

The indicator of the [8'II] button you pressed will go dark, and the note off click will no longer be heard.



To return to the previous condition, press the same button once again.

**MEMO** When the power is turned on, this note off click will be heard.

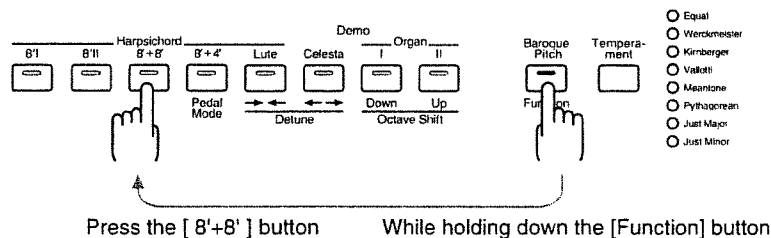
## Muting Sympathetic Resonance

The harpsichord sounds of the C-80 simulate sympathetic resonance, the sound from unplayed strings that resonate when other notes are played. You can mute (silence) this effect if desired.

### ► Procedure

Hold down the [Function] button, and press the [8'+8'] button.

The indicator of the [8'+8'] button you pressed will go dark, and sympathetic resonances will no longer be heard.



To return to the previous condition, press the same button once again.

**MEMO** When the power is turned on, this sympathetic resonance will be heard.

# Other Functions

## Using a Recording Device or External Amplifier

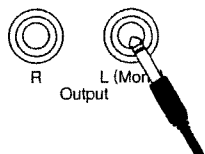
The sound of the C-80 can be recorded directly to a tape recorder or other recording device without using a microphone. You can also use an external amplifier to listen to the C-80 through other speakers.

**NOTE**

To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.

### ► Procedure

1. Turn off the power on the C-80 and on the recording device that you intend to connect.
2. Connect the Output jacks (located on the bottom panel of the C-80) to the input jacks of the recording (or other) device.



3. Turn on the power of the C-80.
4. Turn on the power of the connected device.

**NOTE**

If the input of the connected device is monaural, you must use the L (Mono) jack.

**MEMO**

If you do not want sound to be output from the speakers of the C-80, plug a set of headphones into the Phones jack.

## Using MIDI

The MIDI connectors of the C-80 allow it to exchange music data with other MIDI devices. MIDI lets you do a variety of things, such as recording your own performance and playing it back at a different tempo without changing the pitch, and allows you to edit your performance in a variety of ways.

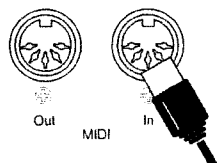
### ■ Making MIDI Connections

#### • MIDI Out connector

If you wish to transmit music data from the C-80 to an external MIDI device, connect this connector to the MIDI In connector of the other device.

#### • MIDI In connector

If you want the C-80 to receive music data from an external MIDI device, connect the MIDI Out of the other device to this connector.



**MEMO**

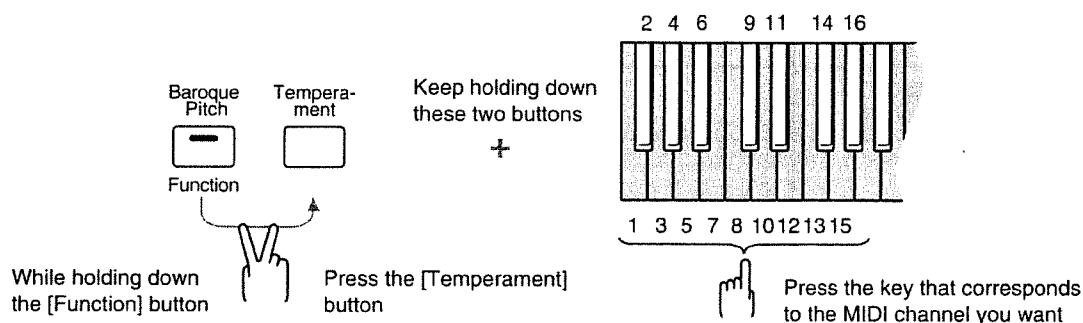
Use a separately available MIDI cable to make the connections.

## ■ Setting the MIDI Channel

In order to exchange (transmit or receive) MIDI messages with another MIDI device, the transmitting device and receiving device must be set to the same MIDI channel.

### ► Procedure

While holding down the [Function] button, press the [Temperament] button, and while continuing to hold down the two buttons, press the key (F1 — G#2) that corresponds to the desired MIDI channel.



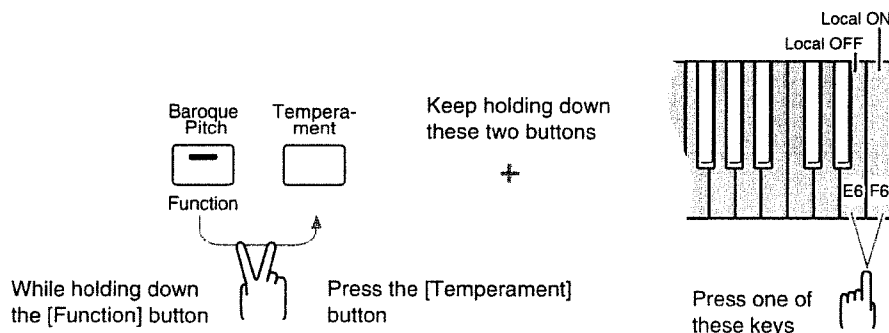
**MEMO** "1" as the channel is the power-up default setting.

## ■ Local ON/OFF Setting

Normally, MIDI data will be sent from the keyboard to the internal sound generator (Local ON). However if you want the data from the keyboard to be sent via MIDI Out to an external device, and then re-transmitted from that external device back to the MIDI In of the C-80 to produce sound, you can break the internal connection between the C-80's keyboard and sound generator (Local OFF). This will avoid the duplication of data that would otherwise result.

### ► Procedure

While holding down the [Function] button, press the [Temperament] button, and while continuing to hold down the two buttons, press the right-most key (F6) to turn Local ON or press the key beside it (E6) to turn Local OFF.



When this is turned Local OFF, playing the keyboard of the C-80 will not produce sound.

**MEMO** Local ON is the power-up default setting.

# Specifications

DIGITAL HARPSICHORD  
Model C-80

## MIDI Implementation Chart

Date : Sep. 1, 1998  
Version : 1.00

Function...	Transmitted	Recognized	Remarks
Basic Channel Default Changed	1 1-16	1, 2 1-16	
Mode Default Messages Altered	Mode 3 x *****	Mode 3 x	
Note Number : True Voice	11-106 *****	0-127 11-106	
Velocity Note ON Note OFF	O O	O O	
After Touch Key's Ch's	x x	x x	
Pitch Bend	x	x	
Control Change 6, 38 7 11 64 100, 101	O x x O O	O O O O O	Data entry Volume Expression Hold 1 RPN LSB, MSB
Prog Change : True #	O (0 ... 52) *****	O (0 - 127) 0 ... 55	
System Exclusive	O	O	
System Common : Song Pos : Song Sel : Tune	x x x	x x x	
System Real Time : Clock : Commands	x x	x x	
Aux Message : All sound off : Reset all controllers : Local ON / OFF : All Notes OFF : Active Sense : System Reset	x x x x O x	x O O O (123-127) O x	
Notes			

Mode 1 : OMNI ON, POLY    Mode 2 : OMNI ON, MONO  
Mode 3 : OMNI OFF, POLY    Mode 4 : OMNI OFF, MONO

O : Yes  
X : No

\* If you want to know more about how Tones are switched when Program Change messages are received, please see "MIDI Implementation" (sold separately). If you should require "MIDI Implementation", please contact the nearest Roland Service Center or authorized Roland distributor.

## Main Specifications

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### C-80 : Digital Harpsichord

- **Keyboard :** F scale 61 keys with Click
- **Maximum Polyphony :** 56 voices
- **Tones :** Harpsichord (8'I, 8'II, 8'+8', 8'+4', Lute)  
Celesta  
Organ (Nason Flute 8', Principals 8'+4')
- **Effects :** Reverb with Stereo Presence  
Sympathetic Resonance
- **Connectors :** Phones Jack (Stereo)  
Pedal (Hold or Tone Selection)  
AC Inlet  
MIDI Connectors (In / Out)  
Audio Output Jacks (L (Mono) / R)
- **Speakers :** 16 cm x 2, 5 cm x 2
- **Rated Power Output :** 10 W x 2
- **Power Supply :** AC 117 V, AC 230 V or AC 240 V
- **Power Consumption :** 20 W
- **Finish :** Traditional Walnut
- **Dimensions (Including stand) :**
  - <With lid closed>
  - 929 (W) x 838 (D) x 841 (H) mm
  - 36-5/8 (W) x 33 (D) x 33-1/8 (H) inches
  - <With lid opened>
  - 929 (W) x 838 (D) x 1389 (H) mm
  - 36-5/8 (W) x 33 (D) x 54-3/4 (H) inches
- **Weight (Including stand) :** 38 kg / 83 lbs 13 oz
- **Accessories :** Owner's Manual  
Stand / Screw set  
Power Cord  
Cover

\* In the interest of product improvement, the specifications and/or appearance of this unit are subject to change without prior notice.

## Information

When you need repair service, call your nearest Roland Service Center or authorized Roland distributor in your country as shown below.

### ARGENTINA

**Instrumentos Musicales S.A.**  
Florida 656 2nd Floor  
Office Number 206A  
Buenos Aires  
ARGENTINA, CP1005  
TEL: (54-1) 394-6057

### BRAZIL

**Roland Brasil Ltda.**  
R. Coronel Octaviano da Silveira  
203 05522-010  
Sao Paulo BRAZIL  
TEL: (011) 843 9377

### CANADA

**Roland Canada Music Ltd.**  
(Head Office)  
5480 Parkwood Way Richmond  
B. C., V6V 2M4 CANADA  
TEL: (0604) 270 6626

**Roland Canada Music Ltd.**  
(Toronto Office)  
Unit 2, 109 Woodbine Downs  
Blvd, Etobicoke, ON  
M9W 6Y1 CANADA  
TEL: (0416) 213 9707

### MEXICO

**Casa Veeerkamp, s.a. de c.v.**  
Av. Toluca No. 325 Col. Olivar de  
los Padres 01780 Mexico D.F.  
MEXICO  
TEL: (525) 668 04 80

**La Casa Wagner de  
Guadalajara s.a. de c.v.**  
Av. Corona No. 202 S.J.  
Guadalajara, Jalisco Mexico  
C.P.44100 MEXICO  
TEL: (03) 613 1414

### PANAMA

**Productos Superiores, S.A.**  
Apartado 655 - Panama 1  
REP. DE PANAMA  
TEL: (507) 270-2200

### U. S. A.

**Roland Corporation U.S.**  
7200 Dominion Circle  
Los Angeles, CA. 90040-3696,  
U. S. A.  
TEL: (0213) 685 5141

### VENEZUELA

**Musiland Digital C.A.**  
Av. Francisco de Miranda,  
Centro Parque de Cristal, Nivel  
C2 Local 20 Caracas  
VENEZUELA  
TEL: (02) 285 9218

### AUSTRALIA

**Roland Corporation  
Australia Pty. Ltd.**  
38 Campbell Avenue  
Dee Why West. NSW 2099  
AUSTRALIA  
TEL: (02) 9982 8266

### NEW ZEALAND

**Roland Corporation (NZ) Ltd.**  
97 Mt. Eden Road, Mt. Eden,  
Auckland 3, NEW ZEALAND  
TEL: (09) 3098 715

### CHINA

**Beijing Xinghai Musical  
Instruments Co., Ltd.**  
6 Huangmuchang Chao Yang  
District, Beijing, CHINA  
TEL: (010) 6774 7491

### HONG KONG

**Tom Lee Music Co., Ltd.  
Service Division**  
22-32 Pun Shan Street, Tsuen  
Wan, New Territories,  
HONG KONG  
TEL: 2415 0911

### INDIA

**Rivera Digitec (India) Pvt. Ltd.**  
409, Nirman Kendra,  
off Dr. Edwin Moses Road,  
Mumbai 400011, INDIA  
TEL: (022) 498 3079

### INDONESIA

**PT Galestra Inti**  
Kompleks Perkantoran  
Duta Merlin Blok E No.6—7  
Jl. Gajah Mada No.3—5,  
Jakarta 10130,  
INDONESIA  
TEL: (021) 6335416

### KOREA

**Cosmos Corporation  
Service Station**  
261 2nd Floor Nak-Won Arcade  
Jong-Ro ku, Seoul, KOREA  
TEL: (02) 742 8844

### MALAYSIA

**Bentley Music SDN BHD**  
140 & 142, Jalan Bukit Bintang  
55100 Kuala Lumpur, MALAYSIA  
TEL: (03) 2443333

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339 Gil J. Puyat Avenue  
Makati, Metro Manila 1200,  
PHILIPPINES  
TEL: (02) 899 9801

### SINGAPORE

**Swee Lee Company**  
150 Sims Drive,  
Singapore 387381  
TEL: 784-1669

### CRISTOFORI MUSIC PTE LTD

BK 3014, Bedok Industrial Park E,  
#02-2148, SINGAPORE 489980  
TEL: 243 9555

### TAIWAN

**ROLAND TAIWAN  
ENTERPRISE CO., LTD.**  
Room 5, 9th. No. 112 Chung Shan  
N.Road Sec.2, Taipei, TAIWAN,  
R.O.C.  
TEL: (02) 2561 3339

### THAILAND

**Theera Music Co., Ltd.**  
330 Vong Nakorn Kasem, Soi 2,  
Bangkok 10100, THAILAND  
TEL: (02) 2248821

### VIETNAM

**Saigon Music Distributor  
(Tan Dinh Music)**  
306 Hai Ba Trung, District 1  
Ho chi minh City  
VIETNAM  
TEL: (8) 829-9372

### BAHRAIN

**Moon Stores**  
Bab Al Bahrain Road,  
P.O.Box 20077  
State of BAHRAIN  
TEL: 211 005

### ISRAEL

**Halilit P. Greenspoon &  
Sons Ltd.**  
8 Retzif Fa'aliya Hashnya St.  
Tel-Aviv-Yahio ISRAEL  
TEL: (03) 682366

### JORDAN

**AMMAN Trading Agency**  
Prince Mohammed St. P. O. Box  
825 Amman 11118 JORDAN  
TEL: (06) 4641200

### KUWAIT

**Easa Husain Al-Yousifi**  
P.O. Box 126 Safat 13002  
KUWAIT  
TEL: 5719499

### LEBANON

**A. Chahine & Fils**  
P.O. Box 16-5857 Gergi Zeidan St.  
Chahine Building, Achrafieh  
Beirut, LEBANON  
TEL: (01) 335799

### OMAN

**OHI Electronics & Trading  
Co. LLC**  
P. O. Box 889 Muscat  
Sultanate of OMAN  
TEL: 959085

### QATAR

**Badie Studio & Stores**  
P.O.Box 62,  
DOHA QATAR  
TEL: 423554

### SAUDI ARABIA

**Abdul Latif S. Al-Ghamdi  
Trading Establishment**  
Middle-East Commercial Center  
Al-Khobar Dharan Highway  
P.O. Box 3631 Al-Khobar  
31952 SAUDI ARABIA  
TEL: (03) 898 2332

### aDawlah Universal

**Electronics APL**  
P.O.Box 2154 ALKHOBAR 31952,  
SAUDI ARABIA  
TEL: (03) 898 2081

### SYRIA

**Technical Light & Sound  
Center**  
Khaled Ibn Al Walid St.  
P.O.Box 13520  
Damascus - SYRIA  
TEL: (011) 2235 384

### TURKEY

**Barkat Muzik aletleri ithalat  
ve ihracat limited ireketi**  
Siraselvler Cad. Guney Ishani No.  
86/6 Taksim, Istanbul TURKEY  
TEL: (0212) 2499324

### U.A.E

**Zak Electronics & Musical  
Instruments Co.**  
Zabeel Road, Al Sherooq Bldg.,  
No. 14, Grand Floor DUBAI  
U.A.E.  
P.O. Box 8050 DUBAI, U.A.E  
TEL: (04) 360715

### EGYPT

**Al Fanny Trading Office**  
P.O.Box 2904,  
El Horrieh Heliopolis, Cairo,  
EGYPT  
TEL: (02) 4171828  
(02) 4185531

### KENYA

**Musik Land Limited**  
P.O. Box 12183 Moi Avenue  
Nairobi Republic of KENYA  
TEL: (2) 338 346

### REUNION

**Maison FO - YAM Marcel**  
25 Rue Jules MermanZI.  
Chaudron - BP79 97491  
Ste Clotilde REUNION  
TEL: 28 29 16

### SOUTH AFRICA

**That Other Music Shop  
(PTY) Ltd.**  
11 Melle Street (Cnr Melle and  
Juta Street)  
Braamfontein 2001  
Republic of SOUTH AFRICA  
TEL: (011) 403 4105

**Paul Bothner (PTY) Ltd.**  
17 Werdmuller Centre Claremont  
7700  
Republic of SOUTH AFRICA  
TEL: (021) 64 4030

### AUSTRIA

**E. Dematte & Co.**  
Neu-Rum Siemens-Strasse 4  
6063 Innsbruck AUSTRIA  
TEL: (0512) 26 44 260

### BELGIUM/HOLLAND/ LUXEMBOURG

**Roland Benelux N. V.**  
Houtstraat 3 B-2260 Oevel  
(Westerlo) BELGIUM  
TEL: (014) 575811

### BELORUSSIA

**TUSHE**  
UL. Rabkorovskaya 17  
220001 MINSK  
TEL: (0172) 764-911

### CYPRUS

**Radex Sound Equipment Ltd.**  
17 Diagorou St., P.O.Box 2046,  
Nicosia CYPRUS  
TEL: (02) 453 426

### DENMARK

**Roland Scandinavia A/S**  
Langebrogade 6 Post Box 1937  
DK-1023 Copenhagen K.  
DENMARK  
TEL: 32 95 3111

### FRANCE

**Roland France SA**  
4, Rue Paul Henri SPAAK  
Parc de l'Esplanade F 77 462 St.  
Thibault Lagny Cedex FRANCE  
TEL: 01 60 00 73 500

### FINLAND

**Roland Scandinavia As,  
Filial Finland**  
Lauttasaarentie 54 B  
Fin-00201 Helsinki, FINLAND  
TEL: (9) 682 4020

### GERMANY

**Roland Elektronische  
Musikinstrumente  
Handelsgesellschaft mbH.**  
Oststrasse 96, 22844 Norderstedt,  
GERMANY  
TEL: (040) 52 60090

### GREECE

**V. Dimitriadis & Co. Ltd.**  
20, Alexandras St. & Bouboulinas  
54 St. 106 82 Athens, GREECE  
TEL: (01) 8232415

### HUNGARY

**Intermusica Ltd.**  
Warehouse Area 'DEPO' P1.83  
H-2046 Torokbalint, HUNGARY  
TEL: (23) 51 1011

### IRELAND

**The Dublin Service Centre  
Audio Maintenance Limited**  
11 Brunswick Place Dublin 2  
Republic of IRELAND  
TEL: (01) 677322

### ITALY

**Roland Italy S. p. A.**  
Viale delle Industrie, 8  
20020 Arcese Milano, ITALY  
TEL: (02) 937-78300

### NORWAY

**Roland Scandinavia Avd.  
Kontor Norge**  
Lilleakerveien 2 Postboks 95  
Lilleaker N-0216 Oslo  
NORWAY  
TEL: 273 0074

### POLAND

**P. P. H. Brzostowicz Marian**  
UL. Blukowa 32, 03624 Warszawa  
POLAND  
TEL: (022) 679 44 19

### PORTUGAL

**Tecnologias Musica e Audio,  
Roland Portugal, S.A.**  
RUA SANTA CATARINA  
131 - 4000 Porto-PORTUGAL  
TEL: (02) 208 44 56

### RUSSIA

**Slami Music Company**  
Sadovaya-Triumfalnaya st., 16  
103006 Moscow, RUSSIA  
TEL: (095 209 2193

### SPAIN

**Roland Electronics  
de España, S. A.**  
Calle Bolivia 239 08020 Barcelona,  
SPAIN  
TEL: (93) 308 1000

### SWEDEN

**Roland Scandinavia A/S  
SWEDISH SALES OFFICE**  
Danvik Center 28, 2 tr.  
S-131 30 Nacka SWEDEN  
TEL: (08) 702 0020

### SWITZERLAND

**Roland (Switzerland) AG  
Musitronic AG**  
Gerberstrasse 5, CH-4410 Liestal,  
SWITZERLAND  
TEL: (061) 921 1615

### UKRAINE

**TIC-TAC**  
Mira Str. 19/108  
P.O.Box 180  
295400 Munkachevo, UKRAINE  
TEL: (03131) 414-40

### UNITED KINGDOM

**Roland (U.K.) Ltd.**  
Atlantic Close, Swansea  
Enterprise Park SWANSEA  
West Glamorgan SA7 9FJ,  
UNITED KINGDOM  
TEL: (01792) 700139

As of August 30, 1998



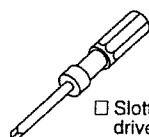
# Before You Begin

## Parts Check

The Digital Harpsichord C-80 package contains the following items.  
If any items are missing, please contact the dealer where you purchased this unit.

- Owner's manual
- This leaflet
- Stand / Screw set
- Power cord
- Cover

■ Screw set



Slotted screwdriver (1)



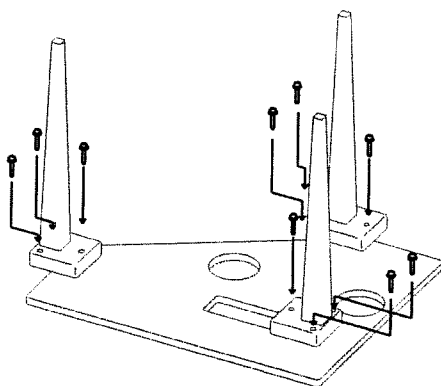
Screws (9)



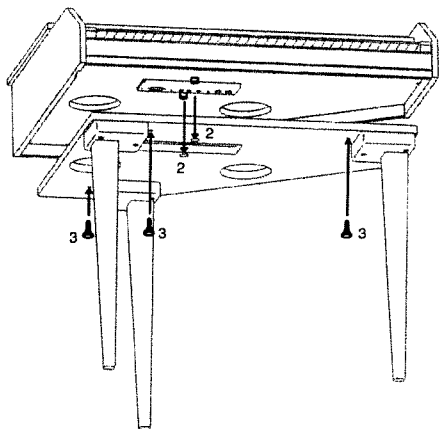
Knob bolts (3)

## Assembling the Stand

To move the C-80, lift it carefully— all the while keeping it level. Be very careful, when you assemble and move the C-80, to make sure that you do not drop it on your hands or feet.



- 1.** Use the included screws and a slotted screwdriver to fasten the legs to the stand.



- 2.** Place the instrument so that the two rubber feet located on the bottom of the unit enter the holes in the stand.
- 3.** Insert the three knob bolts for attachment of the included stand through the holes located beside each leg, and tighten them.

\* Check to make sure the knob bolts securing the unit to the stand have not become loose. Fasten them again securely whenever you notice any loosening.

The same contents are written on p.8 in the C-80 Owner's manual.



Never lean against, or otherwise apply excessive force to the C-80. Doing so can cause it to topple and fall down.

# ご使用前に

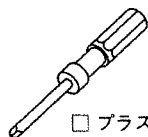
## 付属品の確認

本製品は以下のものを付属しています。

万一不足しているものがある場合にはお買い上げいただいた販売店へご相談ください。

- 取扱説明書／保証書
- 本チラシ
- 専用スタンド／スクリュー・セット
- 電源コード
- 専用カバー

■スクリュー・セット内容物



プラス・ドライバー (1)



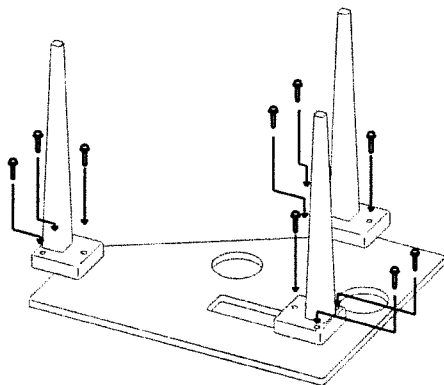
脚取付ネジ (9)



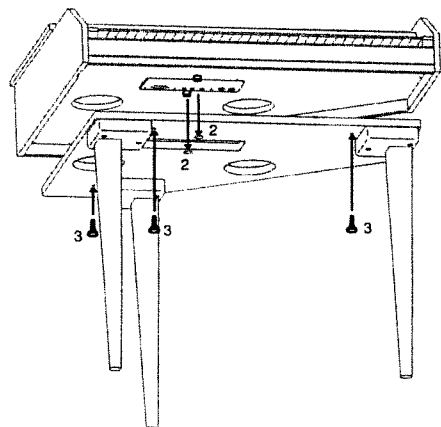
スタンド取付用  
ノブ・ボルト (3)

## スタンドの組み立て

本機を組み立てたり、移動したりする際は、手を挟んだり、足の上に落とさないよう、十分にご注意ください。



1. 付属の脚取付ネジとプラス・ドライバーで脚をスタンドに固定します。



2. 本体の裏面にある2個のゴム足がスタンドの穴に入るようにして本体を載せます。
3. 付属のスタンド取付用ノブ・ボルト3本をそれぞれの脚のそばにある穴からねじ込み、固定します。

※ 機器本体とスタンドを固定しているノブ・ボルトがゆるんでいないか、確認してください。ゆるんでいる場合はしっかり固定して下さい。



本紙と同様の内容を取扱説明書の8ページに記載しております。



構造上、もたれかかるなど本体に無理な力を加えると、転倒の恐れがあります。充分にご注意ください。

■ P. 4, 5

**“IMPORTANT SAFETY INSTRUCTIONS” and “USING THE UNIT SAFELY”**

	<b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN	
<b>ATTENTION:</b> RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR		
<b>CAUTION:</b> TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		



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




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

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS.

## IMPORTANT SAFETY INSTRUCTIONS SAVE THESE INSTRUCTIONS

**WARNING** - When using electric products, basic precautions should always be followed, including the following:

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Never use with a cart, stand, tripod, bracket, or table except as specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. 
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

For the U.K.

**WARNING:** THIS APPARATUS MUST BE EARTHED  
**IMPORTANT:** THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE.  
 GREEN-AND-YELLOW: EARTH, BLUE: NEUTRAL, BROWN: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol (⊕) or coloured GREEN or GREEN-AND-YELLOW.

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

# USING THE UNIT SAFELY

## INSTRUCTIONS FOR THE PREVENTION OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

### About ⚠ WARNING and ⚠ CAUTION Notices

<b>⚠ WARNING</b>	Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly.
<b>⚠ CAUTION</b>	Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly. * Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well to domestic animals or pets.

### About the Symbols

	The ⚠ symbol alerts the user to important instructions or warnings. The specific meaning of the symbol is determined by the design contained within the triangle. In the case of the symbol at left, it is used for general cautions, warnings, or alerts to danger.
	The ⓧ symbol alerts the user to items that must never be carried out (are forbidden). The specific thing that must not be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the unit must never be disassembled.
	The ● symbol alerts the user to things that must be carried out. The specific thing that must be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the power-cord plug must be unplugged from the outlet.

### ALWAYS OBSERVE THE FOLLOWING


#### ⚠ WARNING

- Before using this unit, make sure to read the instructions below, and the Owner's Manual.
- Do not open or perform any internal modifications on the unit.
- Do not attempt to repair the unit, or replace parts within it (except when this manual provides specific instructions directing you to do so). Refer all servicing to your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page.
- Never use or store the unit in places that are:
  - Subject to temperature extremes (e.g., direct sunlight in an enclosed vehicle, near a heating duct, on top of heat-generating equipment); or are
  - Damp (e.g., baths, washrooms, on wet floors); or are
  - Humid; or are
  - Exposed to rain; or are
  - Dusty; or are
  - Subject to high levels of vibration.
- Make sure you always have the unit placed so it is level and sure to remain stable. Never place it on stands that could wobble, or on inclined surfaces.
- The unit should be connected to a power supply only of the type described in the operating instructions, or as marked on the unit.
- Do not excessively twist or bend the power cord, nor place heavy objects on it. Doing so can damage the cord, producing severed elements and short circuits. Damaged cords are fire and shock hazards!

#### ⚠ WARNING

- This unit, either alone or in combination with an amplifier and headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level, or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should immediately stop using the unit, and consult an audiologist.
- Do not allow any objects (e.g., flammable material, coins, pins); or liquids of any kind (water, soft drinks, etc.) to penetrate the unit.
- In households with small children, an adult should provide supervision until the child is capable of following all the rules essential for the safe operation of the unit.
- Protect the unit from strong impact. (Do not drop it!)
- Do not force the unit's power-supply cord to share an outlet with an unreasonable number of other devices. Be especially careful when using extension cords—the total power used by all devices you have connected to the extension cord's outlet must never exceed the power rating (watts/amperes) for the extension cord. Excessive loads can cause the insulation on the cord to heat up and eventually melt through.
- Before using the unit in a foreign country, consult with your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page.

**⚠ WARNING**


- Please add the following text at P. 14 "Opening/ Closing the Lid". 


When opening the lid, be careful not to open it too far.


Opening the lid at an angle in excess of 35° may cause instability and cause the lid to drop.


Also, before opening the top, make sure that not one is in the path of the top as it is being opened.


**⚠ CAUTION**

- The unit should be located so that its location or position does not interfere with its proper ventilation. 


- Always grasp only the plug on the power-supply cord when plugging into, or unplugging from, an outlet or this unit. 

- Try to prevent cords and cables from becoming entangled. Also, all cords and cables should be placed so they are out of the reach of children. 


- Never climb on top of, nor place heavy objects on the unit. 


- Never handle the power cord or its plugs with wet hands when plugging into, or unplugging from, an outlet or this unit. 


**⚠ CAUTION**

- If you need to move the instrument, take note of the precautions listed below. At least two persons are required to safely lift and move the unit. It should be handled carefully, all the while keeping it level. Make sure to have a firm grip, to protect yourself from injury and the instrument from damage. 

- Check to make sure the knob bolts securing the unit to the stand have not become loose. Fasten them again securely whenever you notice any loosening.
- Disconnect the power cord.
- Disconnect all cords coming from external devices.
- Close the lid.
- Fold down the music stand.

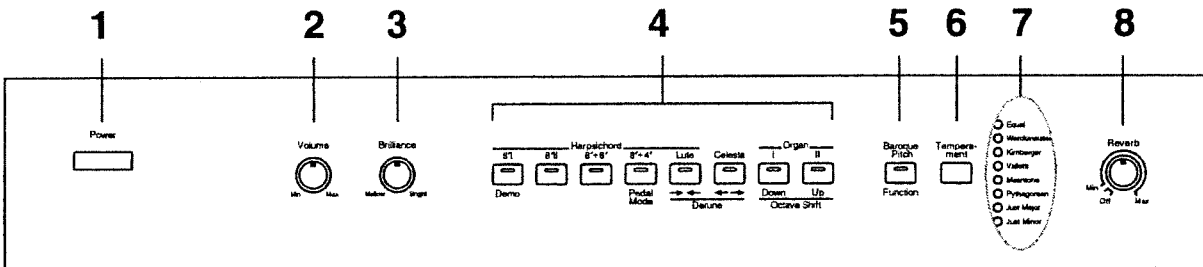
- Before cleaning the unit, turn off the power and unplug the power cord from the outlet (p. 12). 

- Whenever you suspect the possibility of lightning in your area, pull the plug on the power cord out of the outlet. 

- Be careful when opening/closing the lid so you do not get your fingers pinched (p. 14). Adult supervision is recommended whenever small children use the unit. 

**■ P. 10 Front Panel Illustration under "Front and Bottom Panels"**

As shown in the following figure, the inscriptions "ON" and "OFF" next to the POWER switch have been eliminated.



# Notice of Revisions in the C-80 Owner's Manual

The following content in the C-80 Owner's Manual has been revised.

## ■ P. 2



For EU Countries

This product complies with the requirements of European Directives EMC 89/336/EEC and LVD 73/23/EEC.

For the USA

### FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT

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.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Unauthorized changes or modification to this system can void the users authority to operate this equipment.  
This equipment requires shielded interface cables in order to meet FCC class B Limit.

For Canada

### NOTICE

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

### AVIS

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.



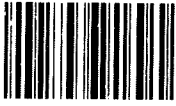
 Roland®

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**71451778**

UPC

71451778



18981

**Roland**