Roland

Roland Digital Piano HP 145

Owner's Manual

Before using this unit, carefully read the sections entitled: "IMPORTANT SAFETY INSTRUCTIONS" (p. 2), "USING THE UNIT SAFELY" (p. 3), and "IMPORTANT NOTES" (p. 4). These sections provide important information concerning the proper operation of the unit. Additionally, in order to feel assured that you have gained a good grasp of every feature provided by your new unit, this Owner's Manual should be read in its entirety. The manual should be saved and kept on hand as a convenient reference.

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

This product may be equipped with a polarized line plug (one blade wider than the other). This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician to replace your obsolete outlet. Do not defeat the safety purpose of the plug.

For Canada

For Polarized Line Plug

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION: POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU' AU FOND.

For the U.K.

IMPORTANT: THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE.

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 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.
Under no circumstances must either of the above wires be connected to the earth terminal of a three pin plug.

USING THE UNIT SAFELY

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

About ⚠WARNING and ⚠CAUTION Notices

⚠WARNING	Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly.
⚠CAUTION	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. ⊗

• 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. ●

• 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. ⊗

• 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. ⚠

⚠CAUTION

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

⚠CAUTION

• 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. ⊗

• 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 screws 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.
    • Raise the adjusters on the stand (p. 24).
    • Close the lid.
    • Remove the music stand.

• Before cleaning the unit, turn off the power and unplug the power cord from the outlet (p. 7). ⚡

• 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. 6). Adult supervision is recommended whenever small children use the unit. ⚠

• When using the stool, please observe the following points: ⊗
    • Do not use the stool as a toy, or as a stepping stool.
    • Do not allow two or more persons to sit on the stool.
    • Do not sit on the stool if the bolts holding the stool legs are loose. (If the bolts are loose, immediately re-tighten them using the supplied wrench.)

IMPORTANT NOTES

In addition to the items listed under "IMPORTANT SAFETY INSTRUCTIONS" and "USING THE UNIT SAFELY" on pages 2 and 3, 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
- Using the unit near power amplifiers (or other equipment containing large power transformers) may induce hum. To alleviate the problem, change the orientation of this unit; or move it farther away from the source of interference.
- 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. 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.

Maintenance
- For everyday cleaning wipe the unit with a soft, dry cloth or one that has been slightly dampened with water. To remove stubborn dirt, use a cloth impregnated with a mild, non-abrasive detergent. Afterwards, be sure to wipe the unit thoroughly with a soft, dry cloth.
- Never use benzine, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

Additional Precautions
- Unfortunately, it may be impossible to restore the contents of data that was stored in another MIDI device (e.g., a sequencer) once it has been lost. Roland Corporation assumes no liability concerning such loss of data.
- 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.

Starting Out

Main Features

Authentic Piano Performances

With the Roland HP 145, you can enjoy realistic piano performances with high-quality concert grand piano tone and authentic hammer action keyboard.

Four Tones for Use in a Wide Variety of Musical Genres

The HP 145 features not only piano tones, but four different internal tones that you can use in a variety of musical genres.

Includes High-Quality Reverb

The HP 145's reverb function can add various types of reverberation (sound that is reflected off the walls of a room) to the instrument sounds.

Compact Design Needs Little Space

The HP 145 provides authentic hammer action and high-quality tones, all in a compact body.

Button Descriptions
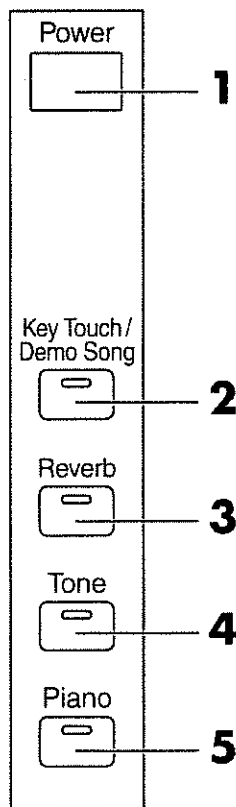
1. [Power] Switch

Turns the HP 145's power on and off (p.7).

2. [Key Touch/Demo Song] Button

This button is held down while other designated keys are pressed to start the Demo Songs playing, and can be used in making various settings on the HP 145 (p. 8, 13-16, 18, 19).

> **MEMO** *The keys that are used in combination with this button appear as the "Functions Assigned to the Keyboard" (p. 21).*

3. [Reverb] Button

Pressing this button adds reverberation to the sound (p.13).

4. [Tone] Button

Pressing this button gives you tones the non-piano tones when you play the keyboard (p. 10).

5. [Piano] Button

Pressing this button gives you tones the piano tones when you play the keyboard (p. 10).

Before You Play

Connecting the Power Cord

* *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.*

1. Connect the power cord that came with your HP 145 to the AC Inlet socket on the rear panel of the unit.
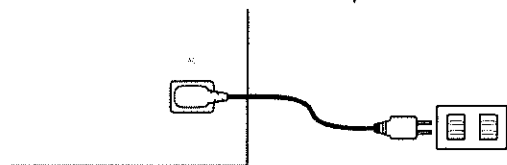
2. Plug the other end of the power cord into a wall outlet.

Setting the Music Stand

Insert the music stand into the two holes as shown in the figure below.
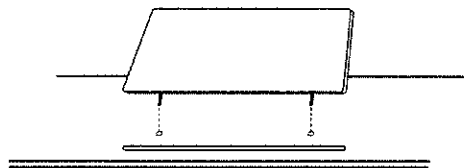
Opening and Closing the Cover

1. When opening the HP 145's cover, grasp the cover with both hands and gently lift it upwards, then slide it towards the back of the piano.

2. When closing the cover, slowly pull the cover forward, then gently lower it into place.
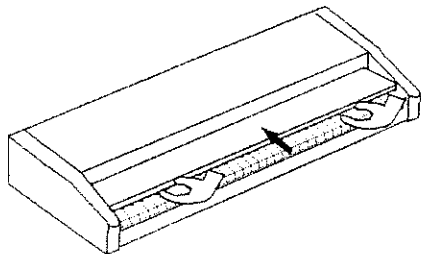
> **Do not insert your hands into the inside of the piano through the space between the cover and the keyboard.**

* *Take care not to allow fingers to be caught or pinched when opening and closing the cover.*

* *Make sure an adult is on hand to provide assistance when young children are playing the HP 145.*

* *For safety, transport the keyboard only with the cover in the closed position.*

About the Volume knob

The VOLUME knob adjusts the overall volume.

> **The VOLUME knob is located at the far left of the piano's lower panel.**
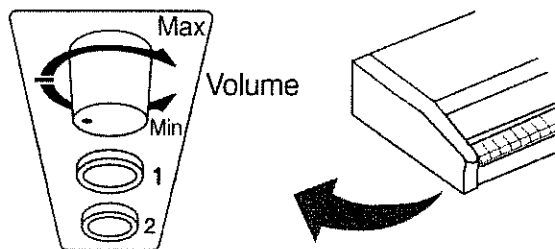
* *The VOLUME knob "clicks" to make the knob easy to stop when center position is reached.*

* *To protect your ears when using headphones for extended periods, take care not to listen at excessively high volume.*

About the Pedals

Soft Pedal   Damper Pedal
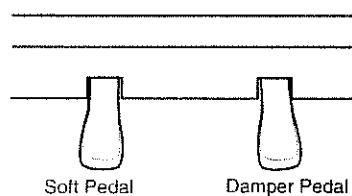
Soft Pedal

This pedal softens the sound.
Playing with the soft pedal depressed produces a sound that is not as strong as when otherwise played with the equivalent strength.

Damper Pedal

Use this pedal when you want the sound to linger. While the damper pedal is depressed, the sound from the keyboard continues to linger/remain for an extended period, even when you remove your fingers from the keys.

Connecting Headphones

The HP 145 features two headphone jacks. This allows two people to listen through headphones simultaneously, making it very useful for lessons and when performing piano pieces for four hands. Additionally, this allows you to play without having to worry about bothering others around you, even at night.

1. Connect the headphones to either of the headphone jacks on the underside of the HP 145, on the left.

Sound will no longer be heard from the HP 145's speakers. Sound will be heard only through the headphones.

2. Adjust the headphones volume with the HP 145's Volume knob.
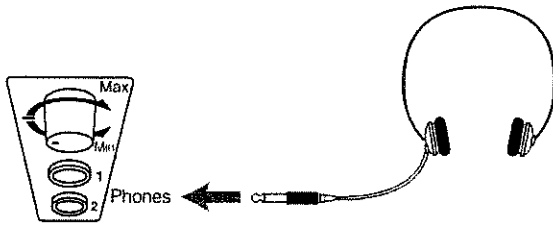
Precautions to Take When Using Headphones

* *To avoid damaging or severing the headphone cord, be sure to handle the headphones by holding the phones themselves, and grasping the plug and not the cord when pulling the headphone plug.*

* *Connecting the headphones when the volume of connected equipment is turned up may result in damage to the headphones. Connect the headphones only after turning the volume down completely.*

Listening at excessively high volume levels will not only damage the headphones, but may also cause hearing loss. Listen at appropriate levels.

Turning the Power On and Off

* *Once the connections have been completed (p. 6), turn on power to your various devices in the order specified. By turning on devices in the wrong order, you risk causing malfunction and/or damage to speakers and other devices.*

Turning On the Power

1. Before switching the power on, turn the volume all the way down.
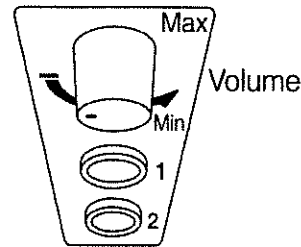
2. Press the [Power] switch.

Lower position

ON
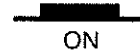
Several seconds after the power is turned on, the keyboard will produce sound when played.

* *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.*

Turning Off the Power

1. Before switching the power off, turn the volume all the way down.
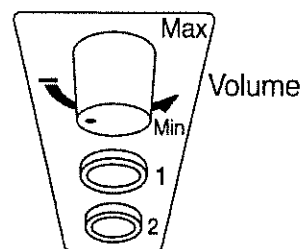
2. Press the [Power] switch.

Upper position

OFF

The power is turned off.

Listening to the Demo Songs

Playing Back and Stopping the Demo Song

Playing Back the Demo Song

While holding down the [Key Touch/Demo Song] button, press any of the keys within the area where "Demo Song" is printed.

The button lamp blinks, and the song corresponding to the number pressed starts to play.

Key Touch/
Demo Song

While holding down...
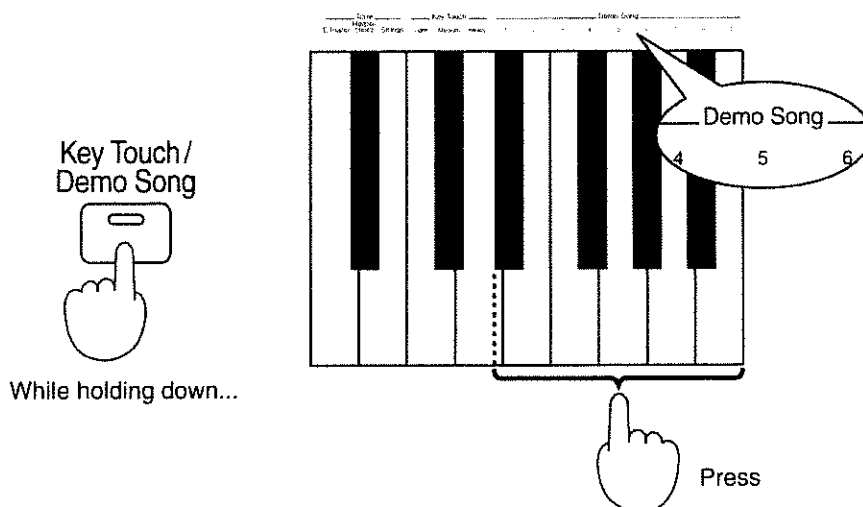
Demo Song
4   5   6

Press

Stopping the Demo Song

Press the [Key Touch/Demo Song] button.

The button lamp stops blinking and goes off, and playback of the Demo Song stops.

Key Touch/
Demo Song

blinking

Key Touch/
Demo Song

dark
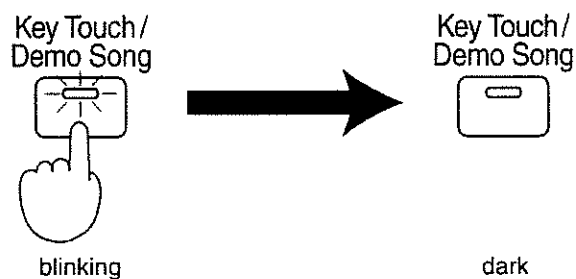
NOTE *When one song is finished, the next song automatically begins to play. Subsequent Demo Songs are automatically played one after another until you stop them playing.*

List of Demo Songs

Number	Title	Composer	Copyright
1	Little White Room	Scott Wilkie	©1998 Scott Wilkie Media (ASCAP)
2	Valse No. 1 in E-flat Major, Op. 18 "Grand Valse Brillante"	Frédéric Chopin	©1998 Roland Corporation
3	"From Foreign Lands And People" from "Scenes From Childhood" Op. 15	Robert Schumann	©1998 Roland Corporation
4	Nocturne No. 2 in E-flat Major, Op. 9-2	Frédéric Chopin	©1998 Roland Corporation
5	Rhapsody No. 2, Op. 79	J. Brahms	©1998 Roland Corporation
6	Slavonic Dance No. 10, Op. 72-2	A. Dvořák	©1998 Roland Corporation
7	Etude Op. 25-1 in A-flat Major "The Shepherd Boy"	Frédéric Chopin	©1998 Roland Corporation
8	Fly Free	John Maul	©1998 Roland Corporation
9	Piano Prologue	John Maul	©1998 Roland UK

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.*

Profiles of Composers

Scott Wilkie

Scott Wilkie is a contemporary jazz recording artist, based in southern California. He tours frequently with his own band, and also appears as an artist for Roland in the U.S., Japan, Europe and South America. His debut solo album, Chasing The Dream, will be released worldwide in 1999 on Narada/Virgin Records. You can find him on-line at www.scottwilkie.com.

John Maul

John Maul is a musician, composer and arranger having graduated from the Royal Academy of Music in London. John's work encompasses studio recordings and live performances including work with top UK Jazz artists.
His writing credits include commercial music for BBC radio and television, as well as scoring jazz and classical works.
Having been a product specialist for Roland U.K., John is now actively involved in music software composing/programming for both Roland Japan and various music publishers. Quite recently his "Musical Picture Book," a volume of original piano music encompassing all standards of musical ability, which included the piano and orchestral accompaniment data in SMF format, was published and printed.

Playing the Keyboard

Performing with Piano Sound

The HP 145 lets you enjoy performing with high-quality concert grand piano tone.

When you press the [Piano] button, the button lamp is lit, and you can play using the piano tone.

Piano   Piano

Press   lit
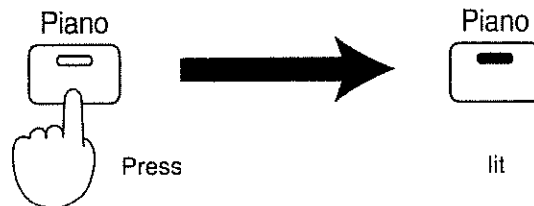
The keyboard is set to this piano tone when the power is turned on.

Performing with Various Instrument Sounds

The HP 145 also includes three other tones: E.Piano (Electric Piano), Harpsichord, and Strings. You can assign any one of these three tones to the [Tone] button.

Try Pressing the [Tone] Button
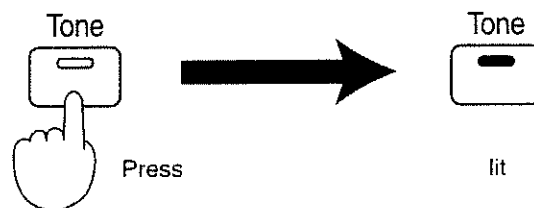
Tone   Tone

Press   lit

When the power is turned on, E.Piano (Electric Piano) is assigned to the [Tone] button.

When you press the [Tone] button, the button lamp is lit, and the electric piano tone is produced when you play the keyboard.

Try Changing the Tone Assigned to the [Tone] Button

Any of the three tones may be assigned to the [Tone] button. By assigning the tone you prefer to the [Tone] button beforehand, you can perform with the instrument sound you want just by pressing the [Tone] button.

1. While holding down the [Tone] button, press the key with the name of the tone you want to use from among the keys indicated as "Tone" keys.

The [Tone] button lamp blinks, indicating the tone selected with the pressed key.
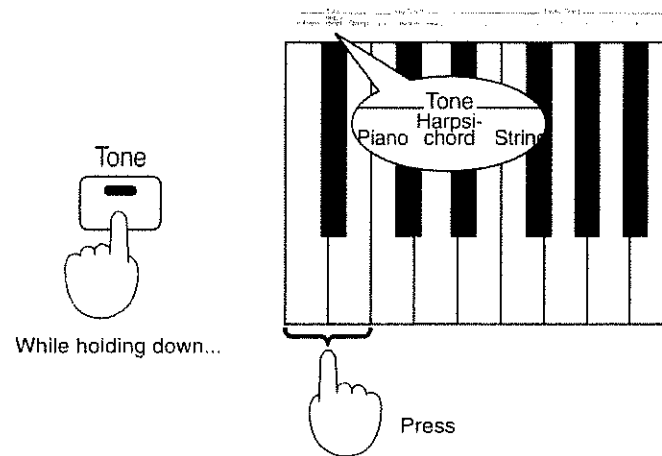
2. After releasing the button, play the keyboard.

The button lamp stops blinking and stays on, indicating that the tone selected in Step 1 has been assigned to the [Tone] button.

MEMO
When assigning tones to the [Tone] button, the tone is set by first selecting the tone in Step 1 (lamp blinks), then playing the keyboard in Step 2 (lamp is lit). You can also set the tone by pressing the blinking [Tone] button instead of playing the keyboard. If you don't want to set the tone, then press the [Piano] button.

Layering Two Instrument Sounds— Dual Play

Playing with two different tones on the keyboard simultaneously is called "Dual Play."

Layering the Piano tones and Strings tones

1. First, assign the Strings tone to the [Tone] button.

Release the button and play the keyboard.

Playing the keyboard sets the assigned tone.
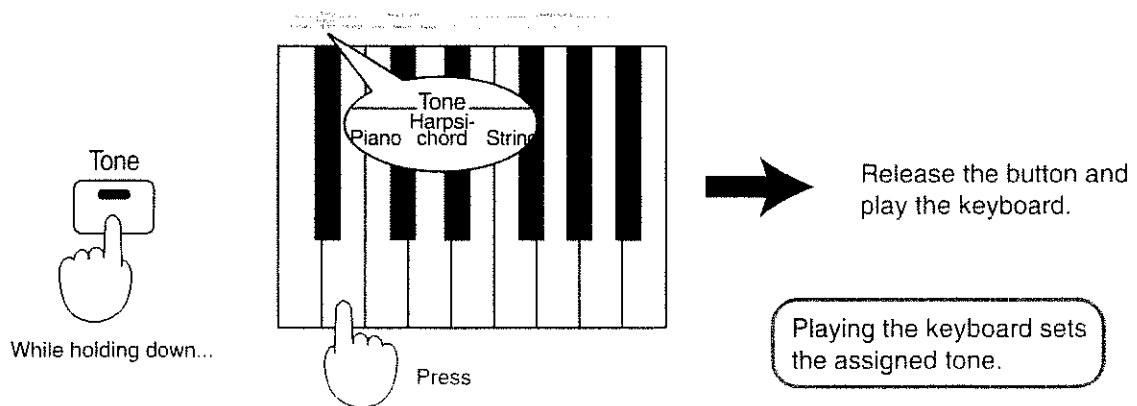
2. While holding down the [Piano] button, press the [Tone] button.

Piano   Tone

While holding down...   Press
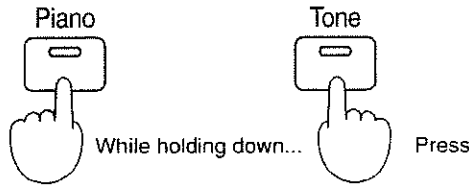
Both button lamps are lit. When you play the keyboard, both the Piano and Strings tones are layered.

Reverting to a Single Instrument Tone

Press either the [Piano] button or the [Tone] button.

Only the button lamp for the button that was pressed stays on, and only that instrument sound is produced.

Piano   or   Tone

Press   Press
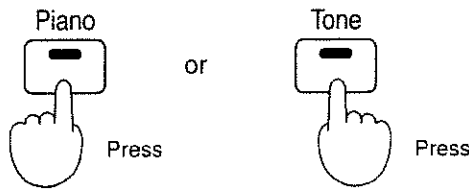
Layering the Harpsichord and Strings Tones

You can perform with two tones assigned to the [Tone] button layered together (other than the piano tone).

While holding down the [Tone] button, simultaneously press the Harpsichord and Strings keys from among the keys marked as "Tone" keys.

Tone

Tone
Harpsi-
Piano chord Strings

While holding down...   Press simultaneously
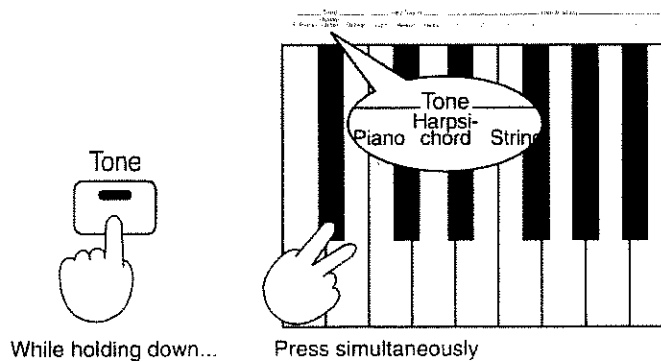
NOTE *Tones composed of two separate layered tones ("Dual" tones) cannot be assigned to the [Tone] button. When the [Tone] button is pressed, the single previously assigned tone is restored.*

Adding Reverberation to the Sound — Reverb Effect

The HP 145 allows you to add reverberation to what you play on the keyboard. With the reverb effect, you can get a pleasant reverberation, making it sound as if you were performing in a concert hall or similar space.

1. Press the [Reverb] button; the button lamp lights.

Reverberation is added to the sound.

Reverb → Reverb

Press   lit
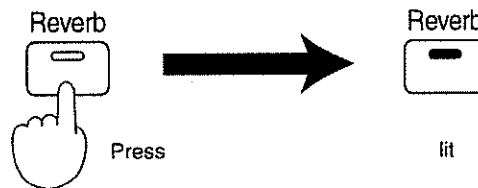
2. Press the [Reverb] button once more; the button lamp goes off, and the reverb effect is no longer added to the sound.

Reverb → Reverb

Press   dark
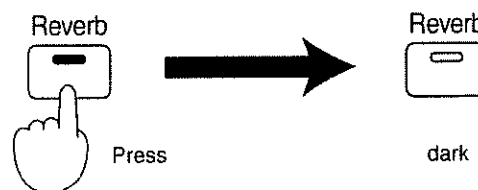
Changing the Reverb Type

The HP 145 features seven reverb types, 1-7, allowing you to select the preferred reverb sound.

The higher the reverb type number, the deeper the effect is.

The reverb is reset to type 4 when the power is switched on.

To change the reverb type, hold down the [Key Touch/Demo Song] button and press one of the keys C3-F#3 (corresponding to reverb types 1-7).

<Ex.> Selecting Reverb Type 6

While holding down the [Key Touch/Demo Song] button, press the F3 key (the fourth white key below Middle C). Refer to "Functions Assigned to the Keyboard" (p. 21).

Key Touch/
Demo Song

While holding down...

F3
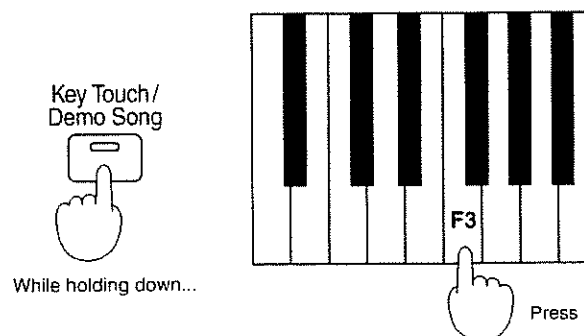
Press

Changing Keyboard Touch Sensitivity

You can select from three touch sensitivity levels: Light, Medium, and Heavy. When the Keyboard is turned on, the response is set to "Medium."

While holding down the [Key Touch/Demo Song] button, press the key indicating the preferred touch sensitivity.

Key Touch/
Demo Song

While holding down...

Key Touch
Light   Medium   Heavy

Press
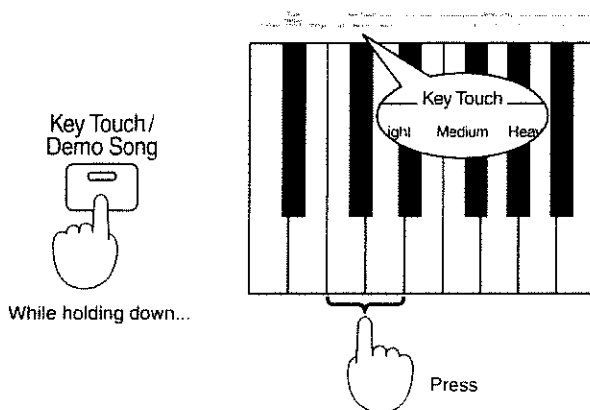
Types	Meaning
Medium	Normal setting, providing the most natural touch, closest to that of an acoustic piano.
Heavy	With this setting, to play fortissimo the keys must be played much more strongly than normally, as if the keys had become heavier. Adds even more emotion when you play with lots of dynamics. This is useful for players who use a strong touch and for drill work.
Light	With this setting, fortissimo can be produced using much less force than normal, thus making the keys seem lighter. This setting makes it easy to play, even for children.

It Even Does This! — Convenient Functions

Changing to Easy Key Signatures — The "Key Transpose" Function

You can play in a different key—without changing the keys you are playing. For example, to play a song in C major even though it was actually written in E major, or to play songs with difficult key signatures full of sharps or flats, you can simply change to a key that is easier for you to play.

Key transpositions remain in effect until the keyboard's power is turned off.

* *The transposition setting is effective only on sounds performed on the HP 145's keyboard. This setting is not effective on tones from external MIDI messages played on the HP 145.*

<Ex.>Using the C Major Keys to Play a Song in E Major

1. While holding down the [Key Touch/Demo Song] button, press the tonic (root) of the key to which you want to transpose. Refer to "Functions Assigned to the Keyboard" (p. 21).

Here, press the E2 key.
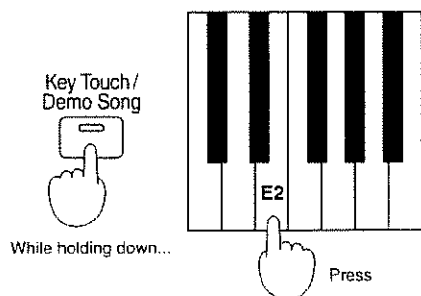
2. To return to the previous condition, while holding down the [Key Touch/Demo Song] button, press the C2 key.
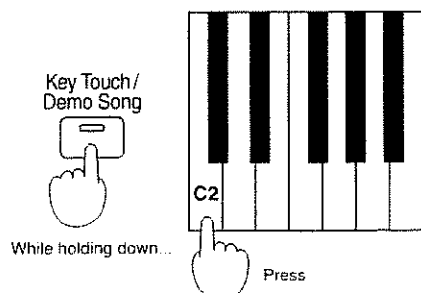
Adjusting the Standard Pitch — Master Tuning

In situations such as when playing in ensemble with other instruments, you can adjust the HP 145's reference pitch to that of another instrument.

Middle A is generally used as the standard reference pitch for tuning instruments. When performing in ensemble with other instruments, the ensemble will not sound good if the instruments are not in tune with each other. This tuning of all the instruments to a standard pitch is called "master tuning."

To make the setting, while holding down the [Key Touch/Demo Song] button, press any key from C4 to D#4.
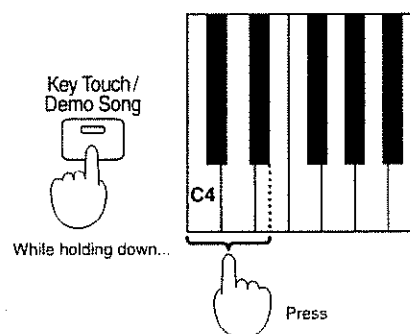
The reference pitch is reset to 440 Hz when the power is switched on, with 440 Hz played by Middle A (A4).

Raising the Reference Pitch

While holding down the [Key Touch/Demo Song] button, press the key of D4. Refer to "Functions Assigned to the Keyboard" (p. 21).
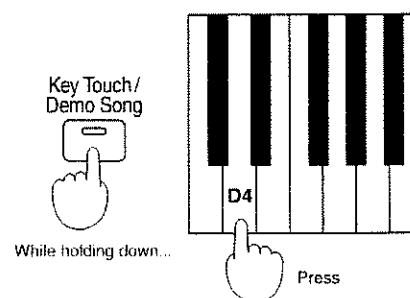
The pitch rises one cent each time the key is pressed. The pitch rises continuously when the key is held down.

Lowering the Reference Pitch

While holding down the [Key Touch/Demo Song] button, press the key of C4. Refer to "Functions Assigned to the Keyboard" (p. 21).
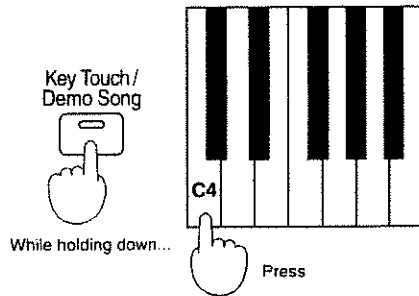
The pitch falls one cent each time the key is pressed. The pitch falls continuously when the key is held down.

Setting the Reference Pitch to 440 Hz

While holding down the [Key Touch/Demo Song] button, press the key of C#4. Refer to "Functions Assigned to the Keyboard" (p. 21).
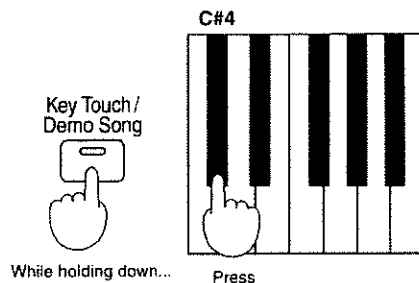
The HP 145's reference pitch is the one most commonly used, 440 Hz. In other words, 440 Hz is produced when Middle A (A4) is played.

Setting the Reference Pitch to 442 Hz

While holding down the [Key Touch/Demo Song] button, press the key of D#4. Refer to "Functions Assigned to the Keyboard" (p. 21).
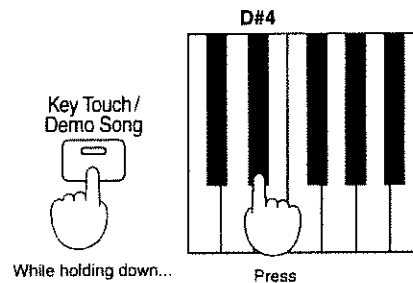
Many pianos used for performing in concert are tuned to 442 Hz. That is, 442 Hz is produced when Middle A (A4) is played.

MEMO What is a Cent?

1/100 of a semitone (half-step) in the equal-temperament scale is known as a "cent." You can raise and lower the HP 145's reference pitch by up to 100 cents (one semitone).

Please read this section if you are planning to use the HP 145's MIDI functions, connecting it to another MIDI device.

When connected to one of Roland's MT Series devices or other such instrument, you can play the many MT Series internal tones with the HP 145's keyboard, as well as record the performances.

Using MIDI

About MIDI

MIDI, short for "Musical Instrument Digital Interface," was developed as a standard for the exchange of performance data between electronic instruments and computers.

The HP 145 is equipped with MIDI connectors to allow such exchange of performance data with external equipment and devices. Connecting the keyboard to other devices with these jacks provides you with an even greater variety of ways to use your keyboard.

```
_____ MIDI _____
Out              In
```

MIDI Connectors on the rear panel

MIDI Out Connector

Performance information such as the output from the keyboard or pedal is sent out here to the MIDI connectors of external equipments.

MIDI In Connector

MIDI messages sent from connected external equipment are input here, then HP 145 can output sounds, exchange tones, and perform other operations.

Sending and Receiving Program Change Messages
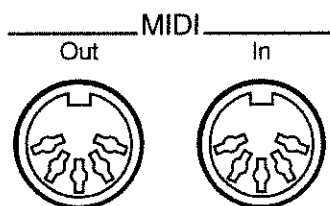
When you press the HP 145's [Piano] button or [Tone] button to change tones, a Program Change Message with the corresponding Program Number is sent via the MIDI Out connector. Furthermore, a Program Change Message received via the MIDI In connector changes the tone to the one with the corresponding Program Number.

Switching Tones with Program Change Messages

Here, with the HP 145 connected to an external MIDI sequencer, when recording and playing back songs, if after pressing the sequencer's Record button to start you press the HP 145's [Tone] button and then begin to play, a Program Change message for that tone is recorded by the sequencer. When you then play back using the sequencer, regardless of the HP 145's mode, the tone is changed in accordance with the Program Change messages recorded by the sequencer, allowing you to play back with the tones used during recording.

In addition, Program Change messages from tone changes made while the recording is in progress are also recorded, meaning you can also record songs with tone changes made during the performance.

Program Numbers for each of the HP 145's tones are shown below.

Program Number	Tone
1	Piano
4	Harpsichord
6	Electric Piano
9	Strings
11	Piano + Harpsichord
13	Piano + Electric Piano
16	Piano + Strings
24	Harpsichord + Electric Piano
27	Harpsichord + Strings
34	Electric Piano + Strings

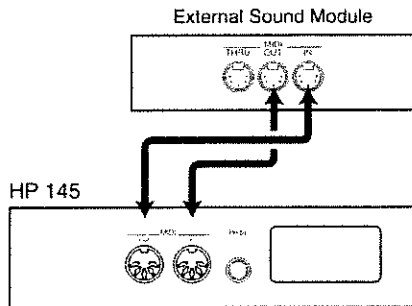* *Any Program Number other than those listed above that are received by the HP 145 are ignored.*

* *11-34 are in Dual Play mode.*

Making Connections

1. Turn off the HP 145.

Upper position

OFF
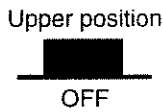
2. Connect the MIDI connectors on the external MIDI device and HP 145 with MIDI cables.

External Sound Module

HP 145

3. If necessary, set the MIDI channel, Local on/off, etc.

Set the MIDI Channel

MIDI features sixteen MIDI channels, numbered 1–16. Even after the MIDI cables are connected, the connected devices must be set to use the same MIDI channels, otherwise no sound will be produced. When the HP 145 is turned on, Channel "1" is selected.

To make the setting, while holding down the [Key Touch/Demo Song] button, press any key from C5 to D#6. The sequence of keys D5-D#6 corresponds to MIDI Channels 1-16. Refer to "Functions Assigned to the Keyboard" (p. 21).
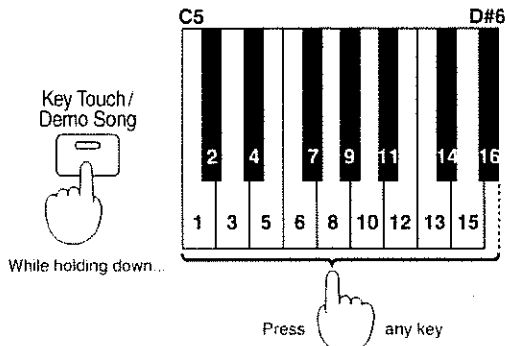
<Ex.> Set the MIDI Channel to 10

While holding down the [Key Touch/Demo Song] button, press the key of A5.
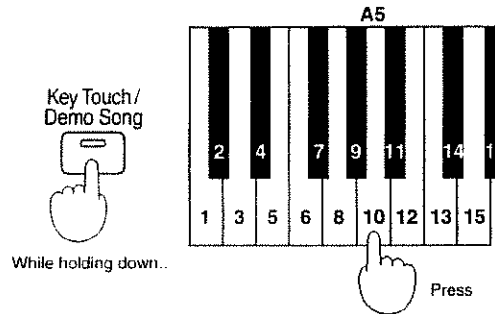
Here the HP 145's MIDI channel for sending/receiving is both set to 10.

Local On/Off

With the keyboard connected to a MIDI sequencer, keyboard performances can be recorded to the sequencer; the sequencer can also be used to play back performances.
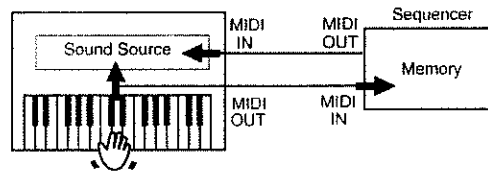
With the sequencer's "Thru" function on, the same notes may be sounded twice.
This is because the keyboard's performance data arrives at the sound generator via two different routes, (1) and (2). This can cause the sound to become strange, and also puts strain on the instrument's polyphonic capabilities. To prevent this from happening, route (1) must be separated, by means of what is called "Local Off."

18
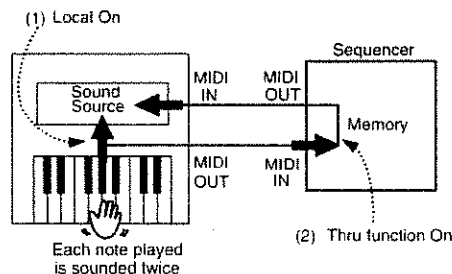
Switching Local On/Off

1. Local On is set when the power is switched on.

2. While holding down the [Key Touch/Demo Song] button, press the second key from the far right.

Key Touch/
Demo Song

While holding down...
Press the second key from the far right.

This sets Local Off.
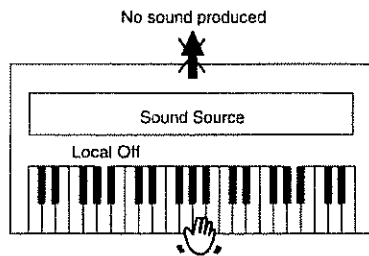
No sound produced

Sound Source

Local Off

3. Once more, while holding down the [Key Touch/Demo Song] button, press the farthest key to the right.

Key Touch/
Demo Song

While holding down...
Press the farthest key to the right.

This sets Local On.

Sound is emitted

Sound Source
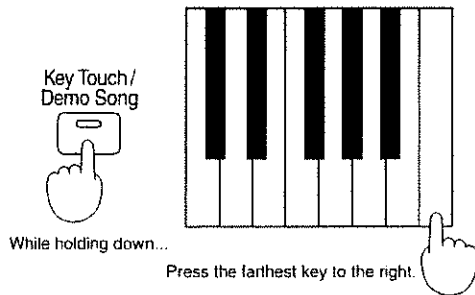
Local On
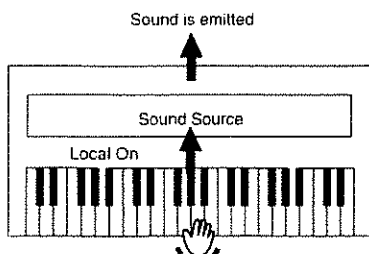
Omni On/Off

When set to Omni On, the HP 145 plays regardless of the MIDI channel on which the MIDI messages are received.
Set this to Omni On when playing back Music files or other such data on which the performance information of the left and right parts have been recorded on other MIDI channels with MT Series or other equipments.

Switching Omni On/Off

1. Omni Off is automatically set when the power is switched on.

2. While holding down the [Key Touch/Demo Song] button, press the key of A7. Refer to "Functions Assigned to the Keyboard" (p. 21).

Key Touch/
Demo Song

A7

While holding down...
Press
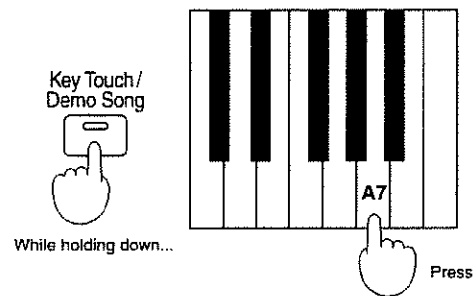
Here, this sets Omni On.

3. Once more, while holding down the [Key Touch/Demo Song] button, press the G7 key.

Key Touch/
Demo Song

G7

While holding down...
Press
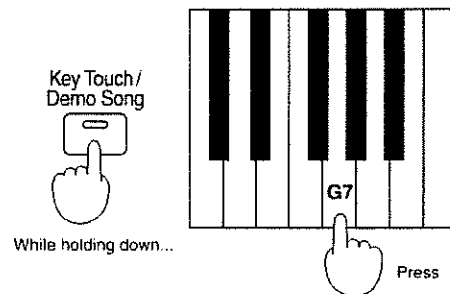
This sets Omni Off.

Appendices

Troubleshooting

If you are encountering any problems with the equipment, please read the section below before determining that there has been any malfunction.

The piano cannot be switched on

- Is the power cord properly connected? (p. 6)

No sound is produced

- Is the Volume knob set to the minimum position? (p. 6)
- Are headphones connected? (p. 7)
  When headphones are connected, the keyboard's speaker stops playing.
- Is Local On/Off set to "Off?" (p. 18)

Two sounds are produced when the keyboard is played

- Is the keyboard in Dual Play mode? (p.11)

The pitch of the keyboard sounds incorrect

- Is the Master Tuning setting correct? (p. 15)
- Is the Transpose setting correct? (p. 15)

The pedals are not functioning, or function intermittently

- Are the pedals connected properly? (p. 24)

When using external sound devices

No sound of external devices is produced

- Is the power to all equipment turned on?
- Is the volume setting in the external sound generator lowered?
- Are the MIDI connections between HP 145 and the external MIDI device correct? (p. 18)
- Is the MIDI channel setting correct? (p. 18)
- Is the Omni On/Off setting correct? (p. 19)

When using seqencers

No sound of HP 145 is produced

- Are the MIDI connections between HP 145 and the MIDI sequencer correct? (p.18)
- Is the MIDI channel setting correct? (p. 18)
- Is the Omni On/Off setting correct? (p. 19)

Strange sounds (or two sounds) are produced when the HP 145 is played

- With the sequencer's "Thru" function on, the same notes may be sounded twice. Set the HP 145 to Local off. (p. 18)

Index

Specifications

- Keyboard
  88 keys (hammer action mechanism)
- Maximum Polyphony
  64 voices
- Tones
  Piano, Electric Piano, Harpsichord, Strings
- Effects
  Reverb (7 types)
- Touch Control
  Light, Medium or Heavy
- Key Transposition
  -6~+5 (semitone steps)
- Connectors
  Headphones Jacks (stereo) x2
  MIDI Connectors (in, out)
  Pedal Connector
- Pedals
  Damper, Soft
- Speakers
  12 cm x 2
- Rated Power Output
  15 W x 2

- Cabinet Finish
  Simulated Black Walnut
- Power Supply
  AC 117 V, AC 240 V
- Power Consumption
  49 W (AC 117 V), 33 W (AC 240 V)
- Dimensions (including Piano Stand)
  1,398 (W) x 420 (D) x 820 (H) mm
  55-1/16 (W) x 16-9/16 (D) x 32-5/16 (H) inches
- Weight (including Piano Stand)
  43.2 kg
  95 lbs 4 oz
- Accessories
  Owner's Manual, Power Cord, Stool, Headphones, Music
  Rest

* In the interest of product improvement, the specifications
  and/or appearance of this unit are subject to change with-
  out prior notice.

Functions Assigned to the Keyboard
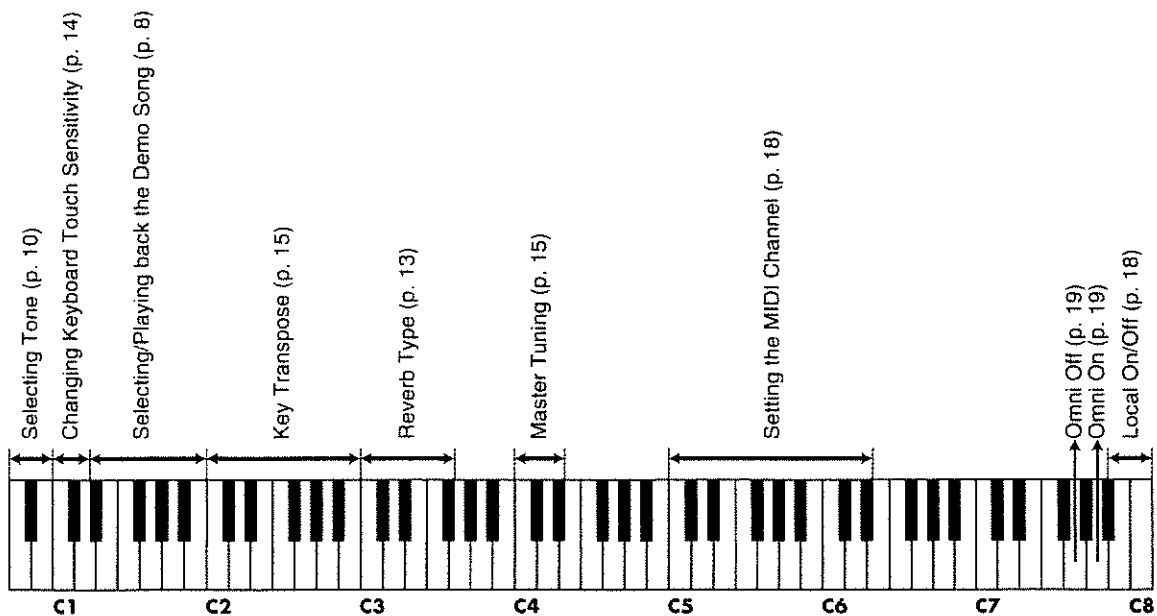
Function...		Transmitted	Recognized	Remarks
Basic Channel	Default	1	1	
	Changed	1 –16	1 –16	
Mode	Default	Mode 3	Mode 3	
	Messages	x	OMNI ON/OFF	
	Altered	**************		
Note Number :	True Voice	15 - 113 **************	0 –127 15 - 113	
Velocity	Note On	O	O	
	Note Off	x 8n v = 64	x	
After Touch	Key's	x	x	
	Channel's	x	x	
Pitch Bend		x	x	
Control Change	6, 38	O	O	Data entry
	7	x	O	Volume
	11	x	O	Expression
	64	O	O	Hold 1
	66	x	O	Sostenuto
	67	O	O	Soft
	91	O	O	Reverb
	100, 101	O	O	RPN LSB, MSB
Prog Change	: True Number	O (0 –33) **************	O (0 –127) 0 - 33	
System Exclusive		O	O	
System Common	: Song Position	x	x	
	: Song Select	x	x	
	: Tune Request	x	x	
System Real Time	: Clock	x	x	
	: Commands	x	x	
Aux Messages	: All Sound Off	x	x	
	: Reset All Controllers	x	O	
	: Local On/Off	x	O	
	: All Notes Off	x	O (123 –127)	
	: Active Sensing	O	O	
	: System Reset	x	x	
Notes				

Mode 1 : OMNI ON, POLY   Mode 2 : OMNI ON, MONO   O : Yes
Mode 3 : OMNI OFF, POLY   Mode 4 : OMNI OFF, MONO   X : No

A separate publication titled "MIDI Implementation" is also available. It provides complete details concerning the way MIDI has been implemented on this unit. If you should require this publication (such as when you intend to carry out byte-level programming), please contact the nearest Roland Service Center or authorized Roland distributor.

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 Veerkamp, s.a. de c.v.
Av. Toluca No. 323 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
Musicland 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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G.A. Yupangco & Co. Inc.
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
Blk 3014, Bedok Industrial Park E,
#02-2148, SINGAPORE 489980
TEL: 243 9555

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

THAILAND
Theera Music Co. , Ltd.
330 Verng 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

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

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Halilit P. Greenspoon &
Sons Ltd.
8 Retzif Ha'aliya Hashnya St.
Tel-Aviv-Yaho 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-Khober
31952 SAUDIARABIA
TEL: (03) 898 2332

aDawliah 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
Siraselviler 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 8050DUBAI, U.A.E
TEL: (04) 360715

EGYPT
Al Fanny Trading Office
P.O.Box2904,
El Horrieh Heliopoles, Cairo,
EGYPT
TEL: (02) 4171828
     (02) 4185553

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 MermanZL
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) 600 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
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As of August 30, 1998

Make sure that another person is on hand to help with the assembly and setup.
To move the piano, lift it carefully—all the while keeping it level. Be very careful, when you assemble and move the piano, to make sure that you do not drop it on your hands or feet.

Part Check

Before you begin assembling the stand, check that all the parts were supplied. You will also need to have a Phillips screwdriver.
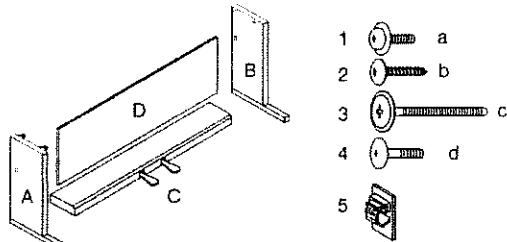
A : Side Board (left)
B : Side Board (right)
C : Pedal Board
D : Rear Board

1 : Screw a (4 x 16 mm) x 2
2 : Screw b (4 x 25 mm) x 4
3 : Screw c (M6 x 60 mm) x 4
4 : Screw d (M5 x 20 mm) x 2
5 : Cord Clamp x 3

Assembly Procedure

* Fasten each screw tightly, then place the stand in a stable and horizontal place.
* Do not allow the pedal cord or power cable to get twisted or pinched while assembling the stand.

Stand Assembly

At first, assemble the entire stand in a temporary fashion, without really tightening the screws. Then, after checking the overall alignment of the boards (and gently shifting certain parts where necessary), go around and tightly fasten each of the screws.

1. Attach the side boards for the right and left sides to the pedal board (so that the metal parts face inside) using screws "c" (M6 x 60 mm).
2. Place the rear board as shown below and adjust the screw holes of the rear board and the pedal board.
3. Attach the rear board to the metal parts on the side boards from the front using screws "a" (4 x 16 mm). For clamping the rear board, press each upper portion of both side boards. Then, fasten it to the pedal board from the back using screws "b" (4 x 25 mm).

Screw c

1

2
Adjust the screw holes of the rear board and the pedal board.

Screw b

Screw a

3
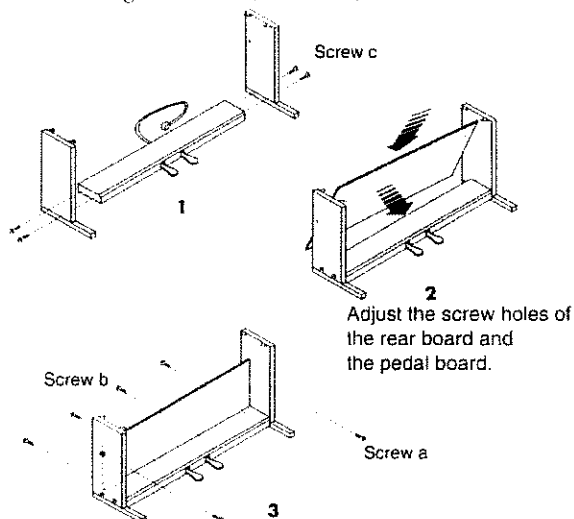
Installing the Piano on the Stand

4. Align the protruding screws (one each at right and left) on the bottom of the piano with the openings in the metal fittings on the side board, then slide the piano forward until the screws are held in place.
5. Fasten the piano to the stand with the screw "d" (M5 X 20 mm) (one each for the right and left).
* When handling the piano, firmly grasp it at the front and back. Be careful, so you do not get your fingers pinched.

4

5

Please don't get your fingers pinched

Screw d
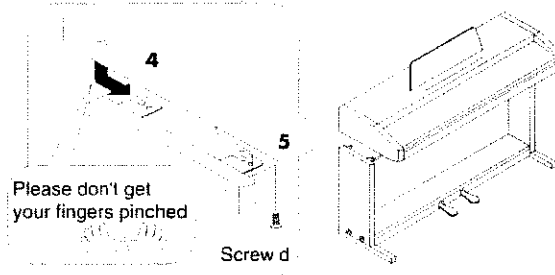
Connecting the Pedal and Power Cords

6. Connect the pedal cord to the Pedal jack on the rear of the piano.
7. Connect the power cord to the power inlet on the piano, then plug the other end into a wall socket.
8. If needed, paste the cord clamp to the rear panel of the piano to stop the pedal cord and power cord.

6
7
8
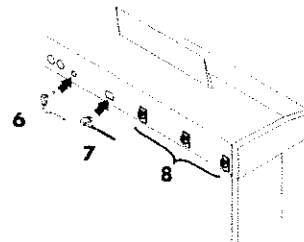
Adjusting the Adjuster

9. Lower the adjuster at the bottom of the pedal board (by rotating it), so that the pedal board touches the floor. If you have the piano placed on a carpet, lower it until it pushes into the carpet.

Adjuster

9
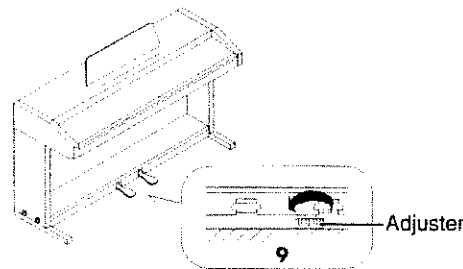
When Moving the Piano

Disconnect the power cord and raise the stand's adjuster. Then lift the piano while keeping it level, and move it with care, so that you do not drop it on your feet, or get your hands caught.

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