

KAWAI
LH-2

Digital Piano/Organ

Owner's Manual

Introduction

Thank you for purchasing a

Kawai LH-2 Digital Piano/Organ

The LH-2 Digital Piano/Organ is a revolutionary keyboard instrument that features exceptional piano/organ sound, a powerful 10-speaker sound system and an attractive, highly functional cabinet design. The LH-2 keyboard provides the touch response and full dynamic range required for superb control as you play. In addition, the LH-2 includes a special “Hymn Player” feature that allows anyone, regardless of musical ability, to play favorite hymns of the Church.

This Owner’s Manual contains valuable information that will help you make full use of the many capabilities of the LH-2. There are two main sections in the manual. The Basic Operations section explains the basic operating features of the LH-2. It describes the use of the various front panel components – buttons, sliders, and jacks and their operation. Please read this section first if this is your first experience with a digital instrument.

The next main section teaches you how to use the Hymn Player and Prelude Music features built into the LH-2. The section is written in tutorial form and will walk you through these important features step-by-step.

Please read all sections carefully and keep this manual handy for further reference. We hope you will enjoy learning how to use your LH-2 Digital Piano/Organ.

LH-2 Digital Piano/Organ

Table of Contents

1. Important Safety Information _____ Page 4
2. Part and Names _____ Page 8
This section identifies the names of parts on the LH-2.
3. Basic Operations _____ Page 10
This section explains the basic layout and function of the operating controls, including a brief explanation of these controls and their associated systems.
4. Hymn Player _____ Page 15
This section provides a step-by-step explanation of this feature that allows those who lack keyboard skills to play any hymns built into the LH-2.
5. Prelude Music _____ Page 22
This section provides an explanation of the Prelude Music feature.
6. Jacks _____ Page 23
This section identifies the location and operation of all input/output jacks.
7. Basic MIDI _____ Page 24
This section provides an introduction to MIDI, including basic connections and operational use of the LH-2 with other MIDI devices.
8. System Mode _____ Page 25
This section explains system parameter modifications. The System Mode allows the user to make various system-wide adjustments to the LH-2.
9. Prelude Hymn Titles _____ Page 30
This section displays the Prelude Hymn titles in each language: English, Spanish, Portuguese, and French.



Kawai Model LH-2



1. Important Safety Information

READ AND SAVE THESE INSTRUCTIONS

PERTAINING TO THE RISKS OF FIRE, ELECTRIC SHOCK, OR PERSONAL INJURY

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN		WARNING TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.
---	---	---	---

AVIS : RISQUE DE CHOC ELECTRIQUE - NE PAS OUVRIR.

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 symbol alerts the user to the presence of non-insulated "dangerous voltage" within the enclosure that could cause electric shock to a person.



The exclamation point symbol alerts the user to the presence of important operating and maintenance instructions in the accompanying literature.

Examples of Picture Symbols



denotes that care should be taken.
The example instructs the user to take care not to allow fingers to be trapped.



denotes a prohibited operation.
The example instructs that disassembly of the product is prohibited



denotes an operation that should be carried out.
The example instructs the user to remove the power cord plug from the AC outlet.

Read all the instructions before using the product.

- 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 dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's 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 prongs are provided for your safety. If 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) Use only with the cart, stand, tripod, bracket, or table 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 object have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

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



WARNING

Indicates a potential hazard that could result in death or serious injury if the product is handled incorrectly.

The product should be connected to an AC outlet of the specified voltage.



If you are going to use an AC power cord, make sure that it has the correct plug shape and conforms to the specified power voltage. Failure to do so may result in fire.

Do not insert or disconnect the power cord plug with wet hands.



Doing so may cause electric shock.

The bench must be used properly (it must be used only when playing the product).

Do not play with it or stand on it.

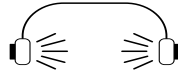
Only one person is allowed to sit on it.

Do not sit on it when opening the lid.

Re-tighten the bolts occasionally.

Doing so may cause the bench to fall over or your fingers to be trapped, resulting in injury.

When using the headphones, do not listen for long periods of time at high volume levels.



Doing so may result in hearing problems.

Do not lean against the keyboard.



Doing so may cause the product to fall over, resulting in injury.

Do not disassemble, repair or modify the product.



Doing so may result in product breakdown, electric shock or short-circuit.

When connecting the AC power cord and other cords, take care not to get them tangled.



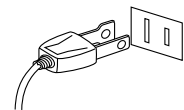
Pulling the AC power cord itself may damage the cord, causing a fire, electric shock or short-circuit.

The product is not completely disconnected from the power supply even when the power switch is turned off. If the product will not be used for a long time, unplug the AC power cord from the AC outlet.



Failure to do so may cause fire in case of lightning. Failure to do so may over-heat the product, resulting in fire.

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.



It is a good practice to have the instrument near the AC outlet and the power cord plug in a position so that it can readily be disconnected in an emergency because electricity is always charging while the plug is in the AC outlet even in a power switch off condition.



CAUTION

Indicates a potential hazard that could result in injury or damage to the product or other property if the product is handled incorrectly.

Do not use the product in the following areas.

Areas, such as those near windows, where the product is exposed to direct sunlight

Extremely hot areas, such as near a heater

Extremely cold areas, such as outside

Extremely humid areas

Areas where a large amount of sand or dust is present

Areas where the product is exposed to excessive vibrations

Using the product in such areas may result in product breakdown. Use the product only in moderate climates (not in tropical climates).

When you close the keyboard cover, close it gently.

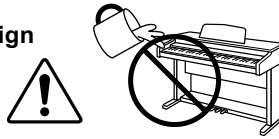
Closing it roughly may trap your fingers, resulting in injury.

Before connecting cords, make sure that the power to this product and other devices is turned OFF.



Failure to do so may cause breakdown of this product and other devices.

Take care not to allow any foreign matter to enter the product.



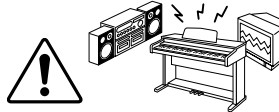
Entry of water, needles or hair pins may result in breakdown or short-circuit. The product should not be exposed to dripping or splashing of any liquid. No object filled with liquid, such as vase, should be placed on the product.

Do not drag the product on the floor. Take care not to drop the product.



Please lift up the product when moving it. Please note that the product is heavy and must be carried by more than two persons. Dropping the product may result in breakdown.

Do not place the product near electrical appliances such as TVs and radios.



Doing so may cause the product to generate noise. If the product generates noise, move the product sufficiently away from the electrical appliance or connect it to another AC outlet.

When disconnecting the AC power cord plug, always hold the plug itself (not the cord) and pull it to remove it.



Failure to do so may damage the cord, resulting in fire, electric shock or short-circuit.

Do not wipe the product with benzene or thinner.



Doing so may result in discoloration or deformity of the product. When cleaning the product, put a soft cloth in lukewarm water, squeeze it well, then wipe the product.

Do not stand on the product or exert excessive force.



Doing so may cause the product to become deformed or fall over, resulting in breakdown or injury.

The product should be located so that its location or position does not interfere with its proper ventilation. Ensure a minimum distance of 5cm around the product for sufficient ventilation.

Ensure that the ventilation is not impeded by objects that may cover the ventilation openings (such as newspaper, table-cloths, curtains, etc.).

Do not place open flame sources on the product (such as lighted candles).

The mains plug shall remain readily operable.

Use the apparatus only in moderate climates (not in tropical climates)

The product should be serviced by qualified service personnel when:

The power supply cord or the plug has been damaged.

Objects have fallen, or liquid has been spilled into the product.

The product has been exposed to rain.

The product does not appear to operate normally or exhibits a marked change in performance.

The product has been dropped, or the enclosure damaged.

Notes on Repair

Should an abnormality occur in the product, immediately turn the power OFF, disconnect the power cord plug, and then contact the shop from which the product was purchased.

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.

FCC Information

NOTE: 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. 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 different electrical circuit from the receiver.
- Consult the dealer or an experienced radio/TV technician for help.

FCC WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Should an abnormality occur with this product, immediately turn OFF power. Then disconnect the power cord. Contact Kawai America for assistance with servicing (call 800-421-2177 within USA; call 310-631-1771 outside the USA).

Canadian Radio Interference Regulations

This instrument complies with the limits for a class B digital apparatus, pursuant to the Radio Interference Regulations, C.R.C., c. 1374.

European Immunity

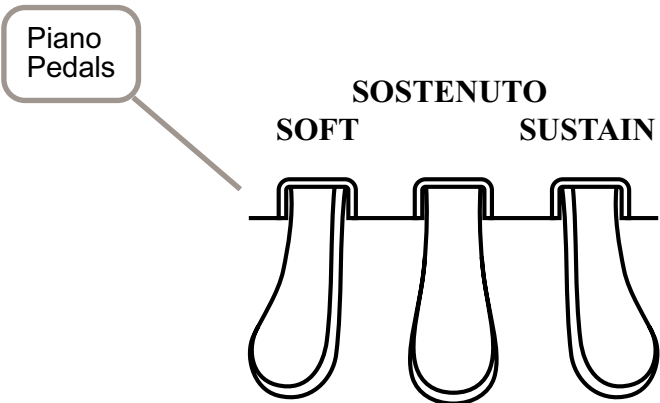
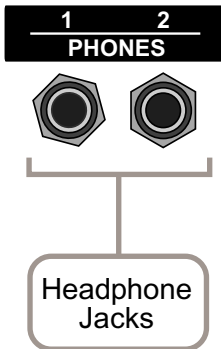
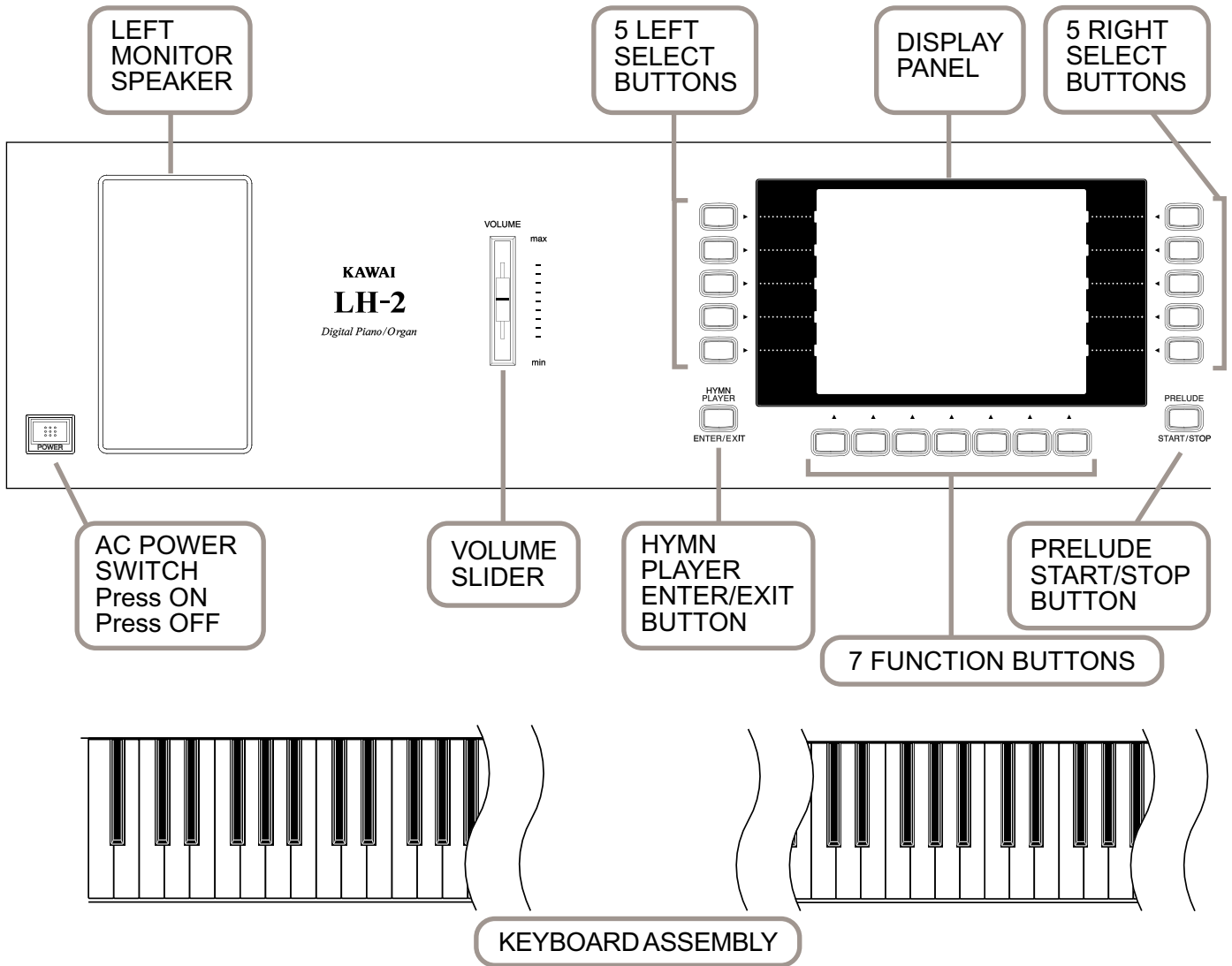
For European Immunity, Radiation and Safety information see "Declaration of Conformity."

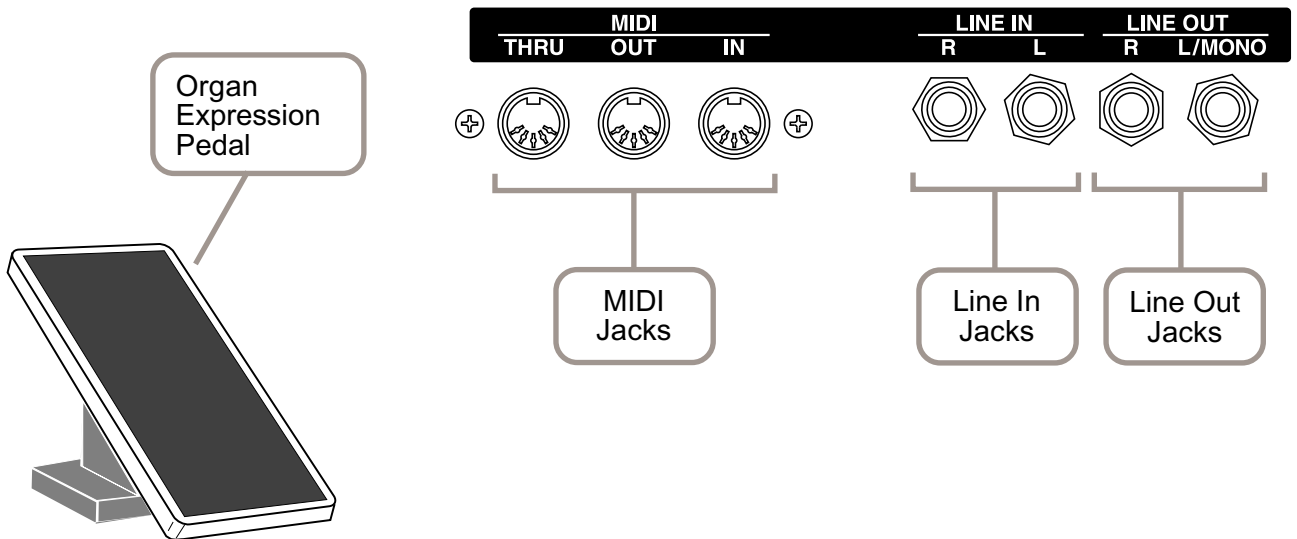
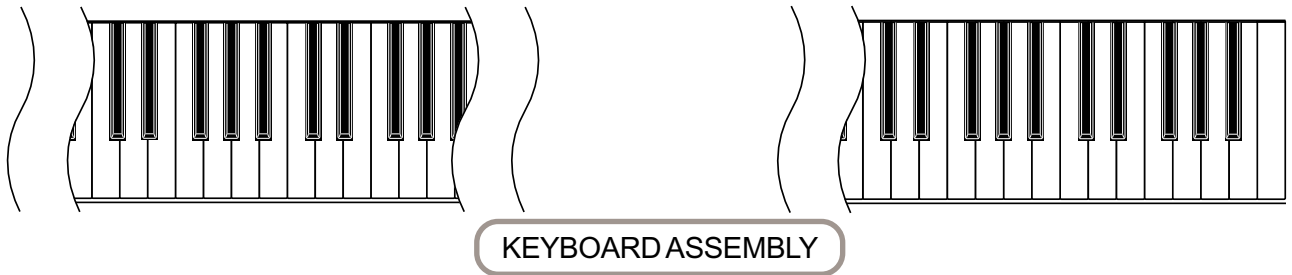
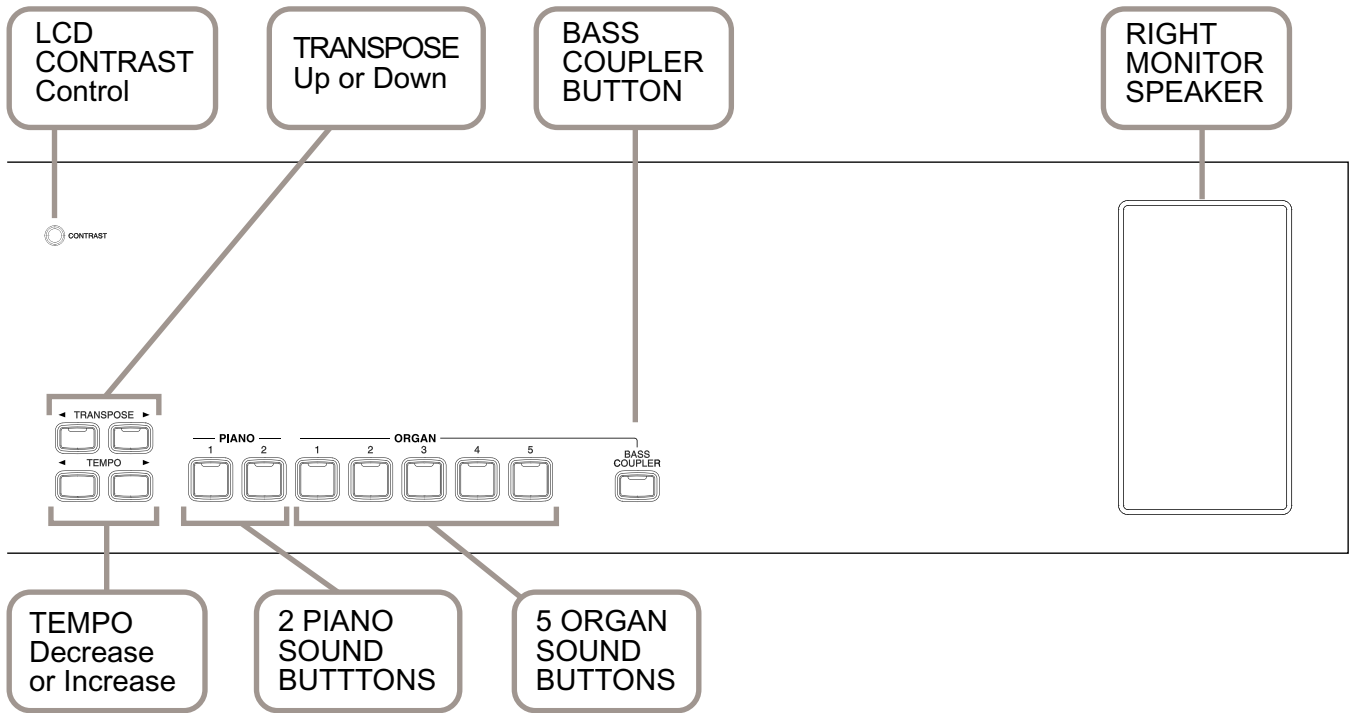


Information on Disposal

If your product is marked with this recycling symbol it means that, at the end of its life, you must dispose of it separately by taking it to an appropriate collection point. You should not mix it with general household waste. Disposing of this product correctly will prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling. For further details, please contact your local authority. (European Union only)

2. Part and Names





3. Basic Operations

Setting up the LH-2

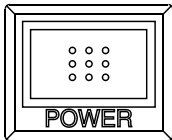
Consider instrument placement before playing the LH-2:

For best sound quality, the instrument should be placed in an open area and should not be confined or surrounded by walls, curtains, screens or furniture. The bass sound radiates virtually 360 degrees around the base of the LH-2. Mid-range and treble sound projects at a wide angle from the top rear of the instrument (the side away from the player). Additionally, there are hidden monitor speakers at each end of the control button panel that project sound toward the player.

AC Power

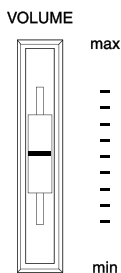
The LH-2 is supplied with a three-wire attached AC power cord. Plug this instrument into a properly wired three-wire grounded AC outlet only.

Power Switch



The Power On button is located on the left (bass) end of the front panel. Press this button one time to turn power ON. Press it again to turn power OFF. If you haven't already done so, press the power button to turn on power.

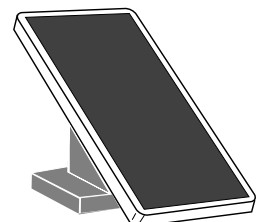
Volume Control



Adjust the VOLUME SLIDER to a minimum low level when you first turn on the instrument, especially when using headphones. Then, adjust volume upward to a comfortable listening level.

Organ Expression Pedal

Located to the right of the three piano pedals at the base of the LH-2 is the ORGAN EXPRESSION PEDAL. This pedal allows the player to control the volume level of organ sounds with the right foot while playing notes on the keyboard. The ORGAN EXPRESSION PEDAL is not active when piano sounds are selected.



Selecting Languages

When the LH-2 is powered on, the Display Screen in the center of the front panel will move through two introductory screens. After these screens disappear, the Language Selection Screen will indicate what language is currently selected.



Should you desire to change the language selection, immediately press the Select Button corresponding to the language you desire - English, Portuguese, Spanish, or French. This screen will disappear quickly if you do not select a different language, and the currently selected language will remain unchanged. If the screen disappears before you have an opportunity to select a different language, turn the LH-2 off, wait for a few seconds, and then power the LH-2 on again to begin the screen sequence for selecting languages.

Once you have selected a language, you can use the LDS Hymn Book in that language for selecting hymns by title or number. The selected language will be memorized by the LH-2 and will be shown as the selected language on the Language Selection Screen the next time the LH-2 is turned on.

Playing the LH-2

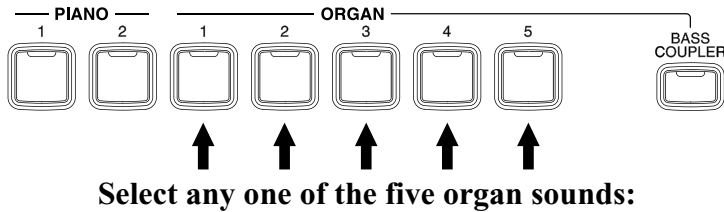
Once the Language Selection Screen disappears, the Sound Selection Screen will appear in the display indicating that the ORGAN 3 Sound (Medium Ensemble) is active. The red light on the ORGAN 3 Button should also be lit to indicate that the ORGAN 3 Sound is selected. ORGAN 3 is always the default sound at power up.

Play any key or chord and adjust the volume slider upward or downward to a comfortable listening level. The Organ Expression Pedal can also be used to raise the volume as desired.

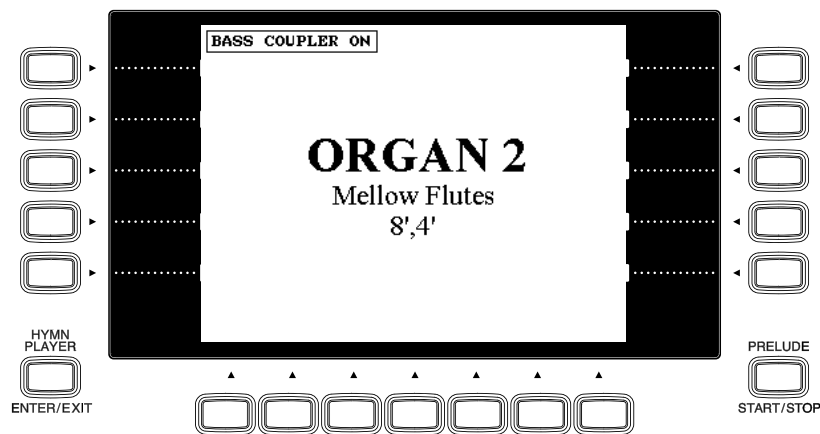
IMPORTANT NOTE: If the LH-2 cannot be raised to an appropriate volume level for organ sounds using the Volume Slider, always try using the Organ Expression Pedal to raise the volume to the desired listening level. The Organ Expression Pedal does not affect piano sounds.

Selecting Organ Sounds

Select any one of five (5) preset ORGAN sounds by pressing the appropriate Organ Sound Button. The lamp on the selected button will light when a Sound Button is pressed. The Sound Selection Screen in the display should confirm the desired sound selection.



Organ 1 is SOFT STRINGS.
Organ 2 is MELLOW FLUTES.
Organ 3 is MEDIUM ENSEMBLE.
Organ 4 is LOUD ENSEMBLE.
Organ 5 is FULL ENSEMBLE



Using the Bass Coupler

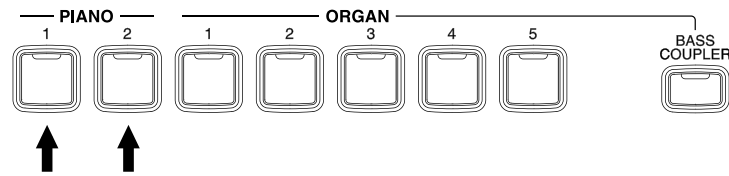
The BASS COUPLER button adds a single bass note to any selected Organ Sound. The added bass note is one octave below the lowest note currently being played. If you haven't already done so, press the BASS COUPLER button.

The lamp on the button should light and the Sound Selection Screen should change to indicate the BASS COUPLER feature has been selected. You should hear the lower bass tone with the first notes played after the BASS COUPLER feature has been activated.

Important Notes Regarding the Bass Coupler:

- The BASS COUPLER feature will only operate with notes played on the G above Middle C and below. (This G is found below the Display function button #6, see graphic on page 15). The Bass Coupler will not accompany any notes played above this G.
- The BASS COUPLER feature will not operate with the HYMN PLAYER feature.
- The BASS COUPLER feature may be more difficult to hear when using the ORGAN 4 and ORGAN 5 sounds, since these sounds inherently contain more bass component.

Selecting Piano Sounds

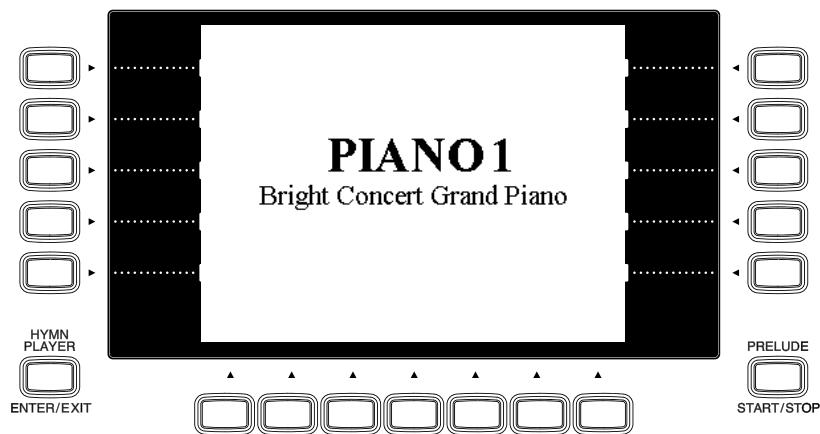


Press one of the two Piano Sound buttons:

Piano 1 is BRIGHT CONCERT GRAND PIANO.

Piano 2 is MELLOW CONCERT GRAND PIANO.

When either of these buttons is pressed, the corresponding lamp will light and the selected sound name will appear in the display.



Like an acoustic piano, the LH-2 keyboard is responsive to touch and expression when playing Piano 1 or Piano 2. Striking the keys with hard pressure will produce loud volume. Touching the keys gently will produce a quiet volume. The awarding-winning concert grand piano tone used in the LH-2 is a reproduction of Kawai's flagship EX Concert Grand Piano, chosen by winners and finalists of major piano competitions around the globe.

Reverb

Each of the seven sounds in the LH-2 has been assigned a preset level of reverb. However, these settings can be adjusted for each sound. Select a Piano or Organ sound and play a note or chord while listening for the reverb level. Use the LEFT Select Buttons to adjust the reverb level for the Piano sounds. Use the RIGHT Select Buttons to adjust the reverb level for the Organ sounds. The bottom Select Button is (0) level or Reverb OFF. Higher Select Buttons provide increasingly more reverb level. Each sound can have its own reverb level during a given playing session. However, all reverb settings will return to the original preset levels when the LH-2 is turned off.

Using the Piano Pedals

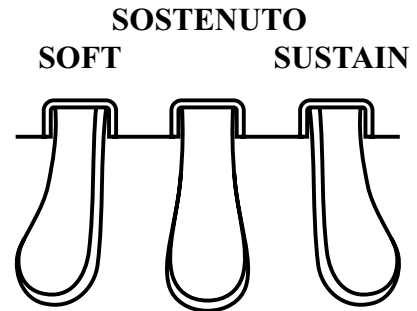
The LH-2 has three (3) pedals identical to those found on an acoustic piano.

Sustain Pedal

Depressing the SUSTAIN PEDAL causes sound to be sustained even after you remove your hands from the keyboard.

Sostenuto Pedal

To utilize the sostenuto pedal, depress and hold down any keys on the LH-2. Immediately depress the sostenuto pedal and release the keys. The sound of the keys just played will sustain while the sostenuto pedal is held.

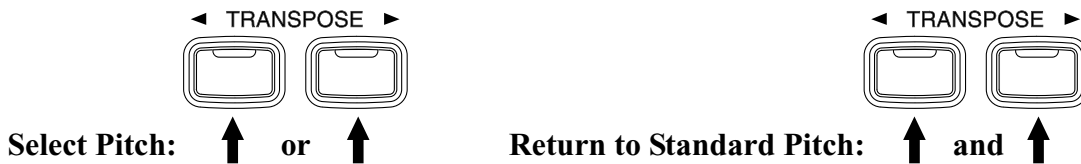


Soft Pedal

Depressing this pedal softens the character and volume of the selected piano sound.

Transpose

The TRANSPOSE function can be activated with any sound, or with the HYMN PLAYER and PRELUDE MUSIC features. The TRANSPOSE function changes the keyboard pitch by semitones, down (-) 12 semitones or up (+) 12 semitones.



Choose any one of the sounds. Then, press the left TRANSPOSE button one (1) time. Notice that a "C" key will be heard as a "B" note. The pitch of the LH-2 has been shifted downward by one semitone. The lamp in the left TRANSPOSE button will light to alert you that the TRANSPOSE feature is activated. Also, a box in the display will appear to tell you that the LH-2 is transposed down one semitone (TRANSPOSE -1).

Now press the right TRANSPOSE button one (1) time. The LH-2 will return to standard pitch. The lamp on the TRANSPOSE button will go off, and the TRANSPOSE box in the display will disappear. When you press the right TRANSPOSE button again, the pitch will be raised by one semitone (so a played "C" will be heard as a "C#"). The lamp in the right TRANSPOSE button will light and a box in the display will appear showing TRANSPOSE +1.

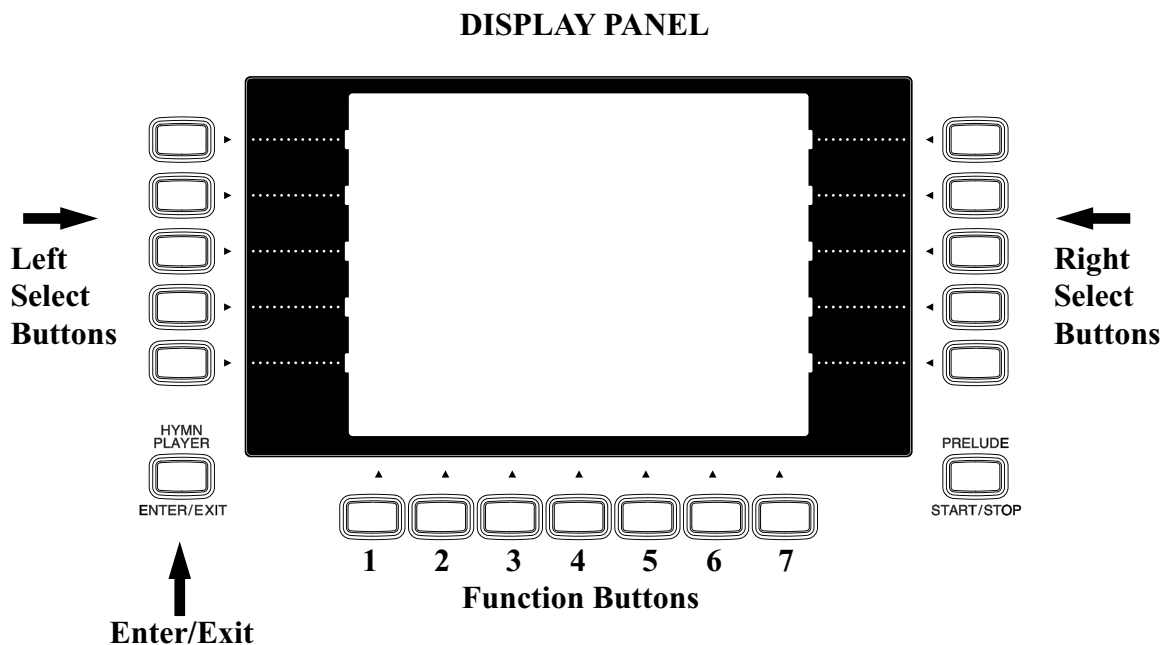
NOTE: To return to standard pitch at any time, press both TRANSPOSE buttons simultaneously. The button lamps will go out, which indicates standard pitch.

4. Hymn Player

The unique Hymn Player feature allows anyone lacking in keyboard skills to play favorite hymns with just one finger. The following section will walk you through this feature step by step.

Display Panel

Information shown in the display guides you through all the various operations of the LH-2, and will be particularly helpful in leading you through the Hymn Player feature.



Button Descriptions

The left and right SELECT BUTTONS on either side of the display are used to select a Song or other feature from the various menus that will be presented in the display.

The seven FUNCTION BUTTONS (below the display) often work in pairs to allow you to select Up/Down or Left/Right for a particular function. The display will show clearly which functions are assigned to each Function Button at any time. Note that the currently active function will be highlighted.

The rightmost Function Button (#7) will usually be assigned BACK functions. The ENTER/EXIT button is used to enter or exit the Hymn Player feature.

Song Selection

If you haven't already done so, press the ENTER/EXIT button to activate the **Hymn Player** feature. The display will present the following screen with a choice of "search methods" for finding hymns:

SEARCH BY NAME - This search method allows you to scroll through the available hymn titles in alphabetical order. Note that the SEARCH BY NAME box at the bottom of the display is highlighted to indicate that this method is active. Use the two leftmost Function Buttons to scroll up or down through the various titles. When you find the desired title, press the corresponding left or right Select Button to choose that title. The title and number of the selected hymn will appear in the display.

Press the Function Button corresponding to the BACK box at any time to exit the Hymn Title screen and return to the Sound Selection Screen.



SEARCH BY NUMBER - Hymns can also be selected by the hymn number found in the LDS Hymn Book. This search method makes it easy to select a hymn using the LDS Hymn Book as your reference guide.

To search by hymn number, press the function button that corresponds to the NUMBER SEARCH box in the display. The box will immediately change to SEARCH BY NUMBER and will show all titles by hymn number in increasing numerical order.



To select a hymn, use the Select Buttons to select the desired number. Once selected, the hymn title and number will appear in the display.

NOTE: You can use the BACK button feature at any time to return to the list of hymns or number list for another song selection. You can also exit Hymn Player at any time by pressing the ENTER/EXIT button or by pressing the BACK button two times.

HYMNS BY LANGUAGE: The total number of hymns varies by language:

English:	162 Hymns	Portuguese:	159 Hymns
Spanish:	162 Hymns	French:	152 Hymns

Using HYMN PLAYER

Once you have selected a hymn, there are three different ways to play it using the Hymn Player feature:

AUTOPLAY: You can play any hymn automatically. Simply select a hymn and press the PLAY VERSE button. The selected hymn will immediately play.

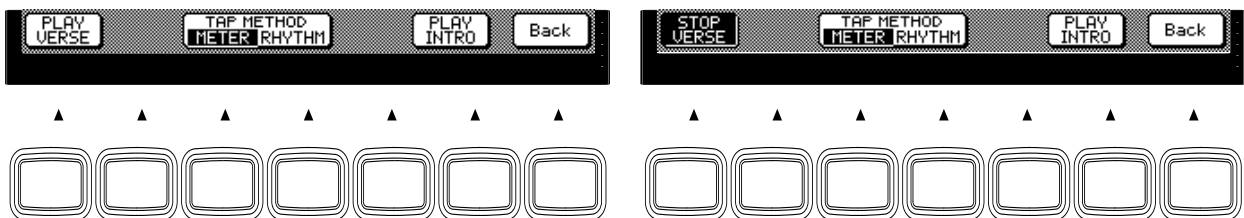
METER PLAY METHOD: You can play a hymn by tapping any key on the LH-2 keyboard in "straight meter" (that is, with evenly spaced beats). Your tapping will control both the tempo and the volume of the hymn's playback. In essence, the Meter Play Method allows you to "conduct" the hymn.

RHYTHM PLAY METHOD: You can play a hymn by tapping any key with a prescribed rhythm that corresponds to the melody of the selected hymn. The "Note Navigator" feature in the display will guide you in playing the proper rhythm.

The following will describe each method in greater detail.

AUTOPLAY

Once you have selected a hymn, you can play it back easily using the AutoPlay method. Simply press the function button that corresponds to the PLAY VERSE button in the display. When this button is pressed, the selected hymn should begin to play immediately. (The hymn can be stopped at any time by pressing the STOP VERSE button). At any time, you can press the BACK function button to return to the hymn list for another selection.



Pressing the PLAY VERSE function button again will re-start th hymn from the beginning.

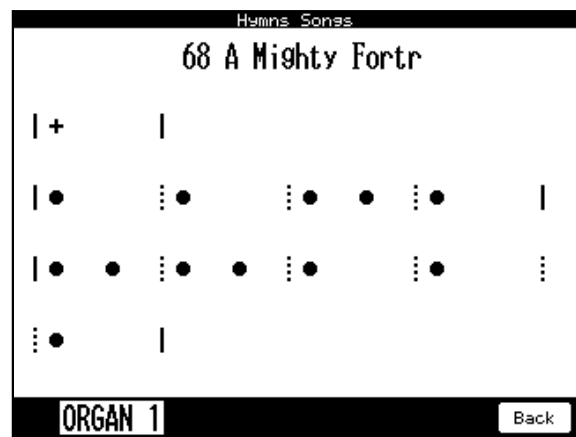
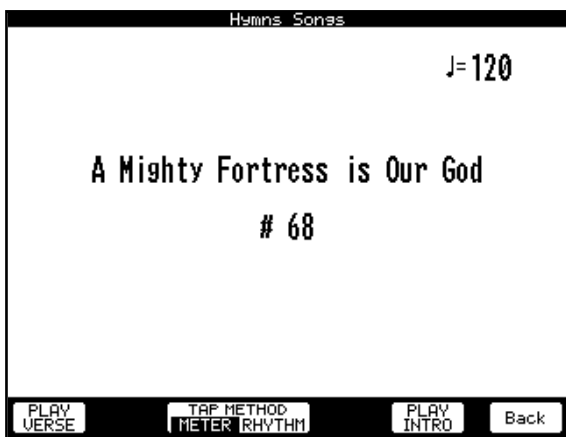
METER PLAY METHOD

There are two different "tap methods" available in the LH-2. Both methods allow you to "tap" out a hymn on the keyboard. Your tapping will control both tempo and volume of the song's playback.

The Meter Play Method allows you to play a hymn by tapping any key on the LH-2 keyboard in "straight meter" (that is, with evenly spaced beats... similar to "conducting").

Using Meter Play Method

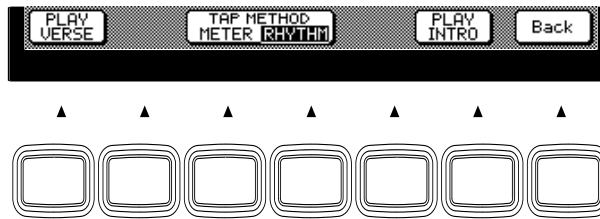
- (1) If you haven't already done so, select a hymn that you want to play.
- (2) Meter Play Method is the default choice and should already be highlighted to indicate it is active. The title with suggested tempo should also appear in the display.
- (3) Choose any key on the keyboard to start tapping. With first key played, the display will change to the NOTE NAVIGATOR screen.
- (4) The NOTE NAVIGATOR screen presents a grid of large dots that appear between vertical bars on the screen. The dots (●) represent beats, and the vertical bars (|) represent measures. The Note Navigator will be your guide to tapping out a hymn.
- (5) With each keystroke, the dots (●) change to a large plus mark (+) after a note is played. Be sure to play with even beats, only one key at a time. Continue playing to the end, where you will see a double bar (||). After this marking, the title screen will reappear. If you continue playing the keys with even beats, the hymn will repeat from the beginning.
- (6) If you stop playing at any time, the hymn playback will stop. You may resume playing after the pause or press BACK to select another hymn.



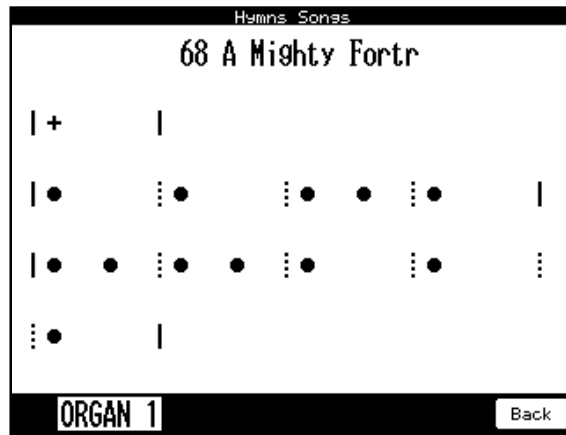
Rhythm Play Method

The Rhythm Play Method is also an easy way to play a hymn. However, with this method, the technique for tapping requires you to use a prescribed rhythm that corresponds to the melody of the selected hymn.

- (1) Choose a hymn to play. The display will show a title, number and tempo (similar to the Meter Play Method).
- (2) Press the function button that corresponds to the RHYTHM button in the display. The word Rhythm should be highlighted to indicate that the Rhythm Play Method is active.



- (3) With the first key played, the display will change to the NOTE NAVIGATOR screen (similar to the Meter Play Method). As before, this screen presents a grid of large dots that appear between vertical bars on the screen. The dots (●) represent either beats or notes, and the vertical bars (|) represent measures. The Note Navigator will be your guide to tapping out a hymn.

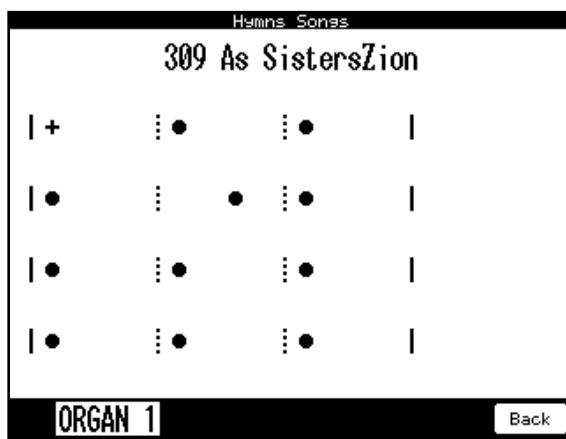


- (4) Understanding the NOTE NAVIGATOR Screen:

In the previous Meter Play Method, the NOTE NAVIGATOR screen showed only one dot per beat. That is appropriate for the Meter Play Method, since you would tap only once for each beat no matter how many actual notes are played by the LH-2 during that beat (the LH-2 would often play two or even three notes during a single beat).

In the Rhythm Play Method, the NOTE NAVIGATOR screen will ask you to tap actual rhythms rather than even beats. Therefore, you will sometimes see two or more dots (set closer together) in the space of one beat. In these cases, you would tap the indicated number of times within that single beat. [For an example, see: A Mighty Fortress #68 (English), Castelo Forte #32 (Portuguese), Baluarte firme es nuestro Dios #32 (Spanish), C'est un rampart que notre Dieu #35 (French).]

At other times, you will see "empty" spaces within a single beat, or some combination of dots and empty spaces. The empty spaces indicate "rests" where no tap should occur. The dots will usually be placed at the beginning (left side) or end (right side) of a beat, adjacent to the "empty" space. This dot placement will tell you whether to tap at the beginning or end of that beat. [For an example, see the second line and second beat of: As Sisters in Zion #309 (English), Irma~sem Sia~o #200 (Portuguese), Sirvamos unidos #205 (Spanish), Nous, soeurs de Sion #201 (French).]



In musical terms, the use of multiple dots is equivalent to eighth notes or, in some cases, eighth note triplets. The placement of dots in the NOTE NAVIGATOR screen will help to introduce novice players to the concept of reading musical rhythms. Once the player has mastered the Rhythm Play Method using this screen, the next step in developing your keyboard skills and reading musical notation should be much easier.

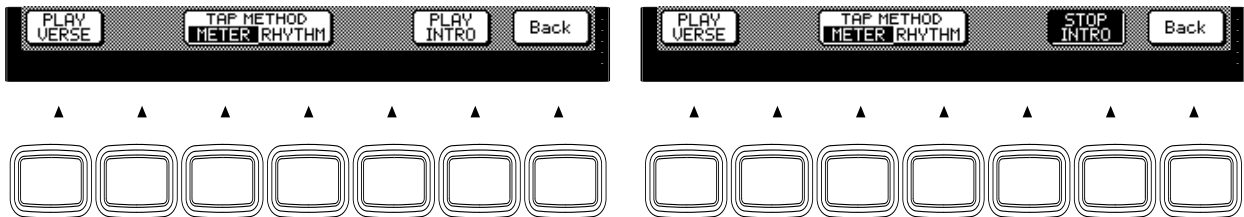
Choose any key on the keyboard and begin playing this key repeatedly at the suggested tempo and note spacing shown on the NOTE NAVIGATOR screen. In addition, play with some expression. Often, the way you "tap" the keys will be very similar to the way you would "sing" the hymn. This concept should help in developing your technique with the Rhythm Play Method. Again, be sure to play only one key at a time.

With each keystroke, the Dots (●) change to a large plus mark (+) after a note is played. Continue playing to the end, where you will see a double bar (||). After this marking, the title screen will reappear. If you continue playing the keys in the appropriate rhythm, the hymn will repeat from the beginning.

If you stop tapping at any time, the hymn will stop. You may resume tapping after the pause or press BACK to select a different hymn.

INTRO

Each hymn is equipped with its own introduction, or INTRO. The built-in INTROs vary in length. Some are short (4 measures) and others are long (up to 8 measures). To start with the INTRO, press the function button that corresponds with the PLAY INTRO box in the display. The INTRO will play immediately after the button is pressed. After INTRO is finished, the sound stops while the LH-2 waits for you to select either the AUTOPLAY Method or one of the two play methods (Meter Play or Rhythm Play) as follows:

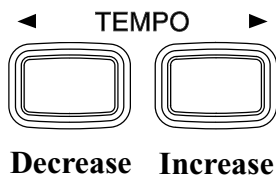


- (1) If desired, you may select the AUTOPLAY function by pressing the PLAY VERSE function button to begin playing the hymn. You may stop at any time by pressing the STOP VERSE function button.
- (2) You may choose either of the two Play Methods by selecting the desired method and then tapping a key. (See above for instructions on each of the two Play Methods.)

In either case, you would normally wait at least one beat after the INTRO concludes before starting the VERSE. The LH-2 needs this slight pause to reset itself for the playing of the VERSE.

TEMPO

TEMPO control is active anytime you are using the AutoPlay function of the Hymn Player and Prelude Music features. Press either button to change the tempo. The left button reduces the tempo speed, while the right button increases the tempo speed.



5. Prelude Music

The unique Prelude Music feature allows anyone to play a preset sequence of hymns for Prelude and Postlude.

Playing Prelude Music

Press the PRELUDE button to start playing prelude music. When this button is pressed, a randomly selected hymn title and number will be shown in the display. The ORGAN 1 sound (Soft Strings) will be automatically selected and the hymn will play.



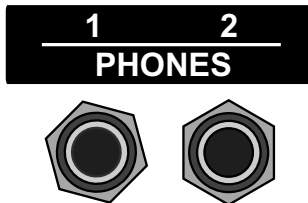
Each hymn will be played twice. Some hymns will change key the second time they are played. When the original randomly-selected hymn finishes, the next hymn in the preset sequence will play.

Press the PRELUDE button again to stop the Prelude Music at any time.

6. Jacks

Headphone Jacks

The two headphone jacks are located under the keyboard at the left (bass) end of the instrument. Both are active and will interrupt the internal speaker system when private playing is desired.



Input / Output & MIDI Jacks

The Jacks Panel is located under the keyboard on the right (treble) end of the instrument.



Line Out Jacks

The Line Out jacks provide line level stereo audio sound output from the LH-2 to external amplifiers, tape/digital recorders or similar audio equipment. L/MONO also provides composite monophonic output for those situations requiring only monophonic output.

Line In Jacks

These jacks receive line level stereo sound from the audio outputs of other instruments or equipment, which is then heard through the LH-2 speaker system.

7. Basic MIDI

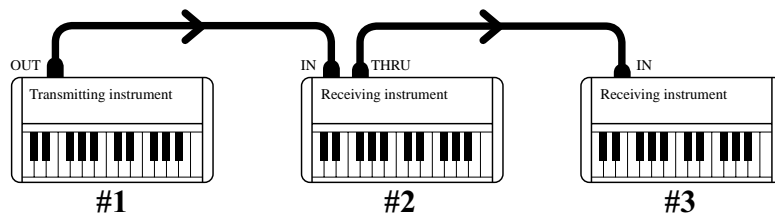
Defining MIDI

The term "MIDI" is an acronym that stands for the Musical Instrument Digital Interface. MIDI allows communication between MIDI-equipped devices. Using MIDI, an instrument can control the sounds of another instrument, or vice versa. MIDI also allows many instruments to be controlled by a computer (with appropriate software) or a specialized MIDI recording device, allowing the instruments to perform as an ensemble.

MIDI Jacks

These jacks allow MIDI communication with other MIDI devices. Note that the LH-2 transmits and receives only played key information. Notes created automatically through the Hymn Player feature and Prelude Music feature are not transmitted.

MIDI IN:	Receives digital data from other instruments.
MIDI OUT:	Transmits digital data to other instruments.
MIDI THRU:	Data received via MIDI IN from other instruments is passed through unchanged to other instruments.



MIDI Connections (based upon the graphic)

- Keyboard #1 is transmitting digital data via MIDI OUT jack.
- Keyboard #2 is receiving this digital data via MIDI IN jack.
- Keyboard #2 is also passing THRU Data received via MIDI IN from Keyboard #1 unchanged to Sound Module #3
- Sound Module #3 is receiving the digital data transmitted from Keyboard #1 MIDI OUT jack via the Keyboard #2 MIDI THRU jack.

The LH-2 will normally be placed in the #1 position as the primary controller, but could be connected into other positions.

LH-2 Example:

Using the above graphic for explanation:

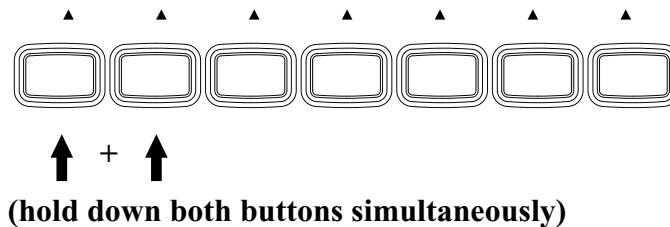
- The graphic shows Keyboard #1 as the primary controlling instrument.
- When the LH-2 is in position #1, its MIDI played key data will be transmitted to instrument #2, which also passes THRU unchanged to #3. You could select sounds in #2 and #3 and hear these sounds while playing the LH-2.
- Selecting MIDI Local Off in LH-2 System Mode would allow you to hear only instrument #2 and #3.

8. System Mode

The SYSTEM MODE screen allows you to modify the LH-2's Operating System settings including Speaker Assignments, MIDI and Musical Tuning, and Restore Factory Settings. Always enter the System Mode from the normal operating mode. You cannot enter System Mode from the Hymn Player or Prelude Music features.

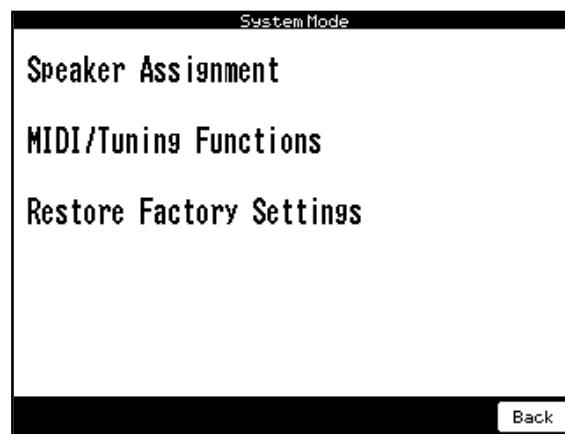
Entering System Mode

To enter SYSTEM MODE, press and hold the first two function buttons (located below the display) for about 2 to 5 seconds, or until the display changes.



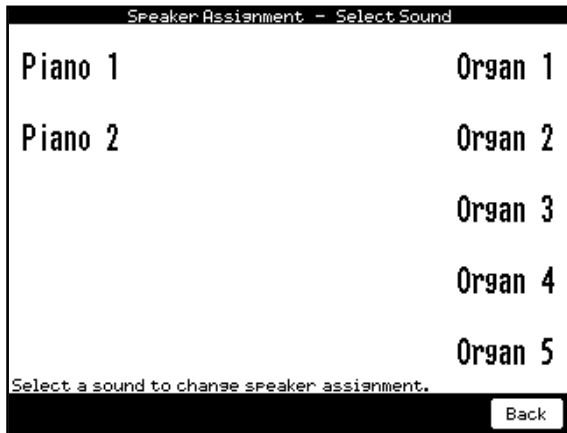
The top line of the screen will indicate that you are in SYSTEM MODE. The three SYSTEM Settings will be displayed. Press Function Button #7 (BACK) to return to a previous LCD screen or to exit the System Mode.

NOTE: Any changes you make while in SYSTEM MODE are not permanent and can be changed again later or restored to factory defaults. You may exit any screen without making changes by pressing the BACK function button until you exit the **System Mode**.



Speaker Assignment

Press the **Speaker Assignment** button and the display changes to a menu showing the seven selectable sounds. Piano sounds are shown on left side. Organ sounds are shown on right. Any sound you choose will offer these same options.



Change Assignment

After you have entered **SYSTEM MODE** and have selected **Speaker Assignment** using the appropriate select button, the display will show the seven PIANO and ORGAN sounds. Press the PIANO 1 select button. The **Internal** box will be highlighted to indicate that the LH-2's internal speaker system is now active for this sound. Press the **All Speakers** function button to change this assignment. Once **All Speakers** is selected, the LH-2 will send sound to both the internal speakers and the external outputs (where optional external powered speakers can be connected).

Now, press the BACK button three (3) times. With the third press, a window will open that says "**Saving The Data Please Wait !**" Once this statement disappears, the change will have been made in the LH-2's computer memory. The PIANO 1 sound will then be heard through the internal speakers and any optional external powered speakers that are connected to the Line Out jacks.

If you re-enter the SYSTEM MODE to check the Speaker Assignment, you should see that the **All Speakers** box is highlighted for PIANO 1. To return to the original setting, select **Internal** and press the BACK button three (3) times to save the new setting and exit.

You can use this process to select a separate Speaker Assignment for each of the LH-2's seven sounds.

Internal

Choose **Internal** to hear the LH-2 sounds only through the internal speaker system. This is the default Factory Setting for the two PIANO sounds.

External

Choose **External** to hear the LH-2 using only an optional **External** Speaker System that may be connected to the LH-2's Audio Output Jacks located under the right side of the keyboard. Choosing **External** disconnects the LH-2's **Internal** speaker system. **External** assignment will normally be used with ORGAN sounds.

Note: Do not choose **External** if there is no external speaker system connected to the LH-2.

All Speakers

Choose **All Speakers** to hear the LH-2 using both the internal speaker system and any optional external speaker system connected to the LH-2. Choosing **All Speakers** will give you maximum sound power distribution. This is the default factory setting for all ORGAN sounds.

Note: You must change Speaker Assignments individually for each sound. There is no global assignment.

Piano Sounds

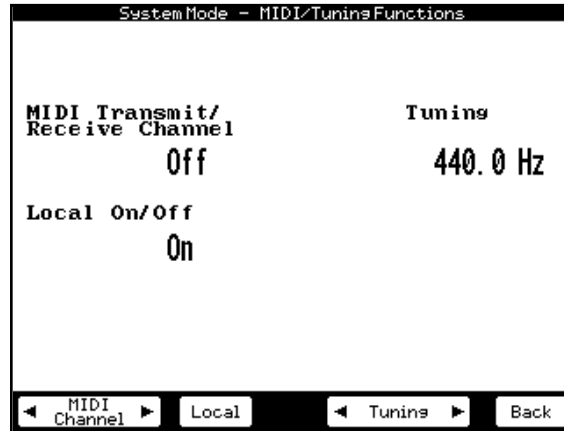
When either of the two piano sounds is selected, **Internal** is the default as indicated by the highlighted box. Piano sounds will normally sound best using the internal speaker system. The LH-2's powerful amplification system should be adequate for a larger room or small auditorium. However, if used in a large to extra-large auditorium, you may want to add an external speaker system. Then, you should choose **External** or **All Speakers** to obtain the best overall balance of sound.

Organ Sounds

When any ORGAN sound is selected, **All Speakers** is the default as indicated by the highlighted box. The powerful amplification system within the LH-2 should be adequate for a larger room or small auditorium. ORGAN sounds are sometimes played with more power and expression than PIANO sounds. Therefore, in a large to extra-large auditorium, you may want to add an external speaker system. Then, you should choose **External** or **All Speakers** to obtain the best overall balance of sound.

MIDI/Tuning Functions

Enter SYSTEM MODE (see above), then press the "**MIDI/Tuning Functions**" Select Button. The LCD Display will change to the screen below:



NOTE: After making any change in the **MIDI/Tuning Functions**, press the BACK button two (2) times to save and exit.

MIDI Channel

The number below the word Channel in the display is the current operating MIDI Channel. Note also the MIDI Channel box in the lower left corner of the display. Press either the DOWN or UP ARROW function button to change the MIDI Channel from one (1) to sixteen (16) or MIDI OFF.

NOTE: The LH-2 transmits or receives played key data only. Transmit and Receive channels cannot be assigned individually. The default is Channel 1.

MIDI Channel 1 to 16: Press the DOWN or UP ARROW to change the MIDI Channel. A MIDI channel is chosen to send or receive MIDI data when the LH-2 is used with other MIDI-equipped instruments or modules. Some instruments or modules may not have the selectable channel feature or may have a limited range of channels.

MIDI OFF: Choosing **MIDI Off** disconnects the LH-2's MIDI System. When MIDI is off, the LH-2 will not transmit or receive MIDI information.

LOCAL On/Off: With **Local On**, the LH-2 transmits "played note" data into the MIDI system. With **Local Off**, the LH-2 will not transmit the "played note" data to its own sound generator. Therefore, the notes played may be heard on other instruments attached to the LH-2 via MIDI, but not through the LH-2 itself.

Tuning

Tuning of 440.0 Hz (A=440) is the LH-2's default factory setting. However, **Tuning** may be changed from a low pitch of 427.0 Hz to a high pitch of 453.0 Hz. This allows the LH-2 to be played with different musical instruments or ensembles that may have tuned to a different pitch. Press the DOWN or UP function button repeatedly to change the pitch. You can hear the pitch changes by selecting the ORGAN 2 sound and holding a key down while repeatedly pressing the **Tuning** DOWN or UP button. Tuning is active for the seven sounds, the Hymn Player feature and Prelude Music feature.

Restore Factory Settings

This function will **Reset** all SYSTEM MODE settings to the factory default settings, providing a quick return to all original settings that existed when the LH-2 arrived.

To restore Factory Settings, enter SYSTEM MODE and press the **Restore Factory Settings** button. The LCD Display should change.



If you are certain that you want to restore the original Factory Settings, press the **Sure** (#1) function button. The word "... **Sure**" will change to "... **Executing**" for a few seconds before the LCD Display returns to SYSTEM MODE main screen. The original factory settings should now be restored. You can also press the BACK button to exit without executing the Restore function.

9. Prelude Hymn Titles

English Titles

(in pre-selected sequence)

Hymn No.	Hymn Title
292	O My Father
146	Gently Raise the Sacred Strain
147	Sweet Is the Work
165	Abide with Me; 'Tis Eventide
181	Jesus of Nazareth, Savior and King
194	There Is a Green Hill Far Away
193	I Stand All Amazed
113	Our Savior's Love
131	More Holiness Give Me
129	Where Can I Turn for Peace?
220	Lord, I Would Follow Thee
141	Jesus, the Very Thought of Thee
98	I Need Thee Every Hour
136	I Know That My Redeemer Lives
302	I Know My Father Lives
142	Sweet Hour of Prayer
195	How Great the Wisdom and the Love
143	Let the Holy Spirit Guide
117	Come unto Jesus
149	As the Dew from Heaven Distilling
301	I Am a Child of God
190	In Memory of the Crucified
196	Jesus, Once of Humble Birth
108	The Lord Is My Shepherd
184	Upon the Cross of Calvary
116	Come, Follow Me
172	In Humility, Our Savior
191	Behold the Great Redeemer Die
182	We'll Sing All Hail to Jesus' Name
166	Abide with Me!
187	God Loved Us, So He Sent His Son

Portuguese Titles

(in pre-selected sequence)

Hymn No.	Hymn Title
177	Ó Meu Pai
100	Entoai a Deus Louvor
54	Doce É o Trabalho
96	É Tarde, a Noite Logo Vem
106	Jesus de Nazaré, Mestre e Rei
113	No Monte do Calvário
112	Assombro Me Causa
75	Mais Vontade Dá-me
73	Onde Encontrar a Paz?
134	Sim, Eu Te Seguirei
84	Só Por em Ti, Jesus, Pensar
61	Careço de Jesus
70	Eu Sei Que Vive Meu Senhor
195	Eu Sei que Deus Vive
79	Ó Doce, Grata Oração
114	Da Corte Celestial
80	Santo Espírito de Deus
69	Vinde a Cristo
91	Qual Orvalho Que Cintila
193	Sou um Filho de Deus
111	Lembrando a Morte de Jesus
115	Tão Humilde ao Nascer
37	O Senhor Meu Pastor É
109	Em uma Cruz Jesus Morreu
68	Vinde a Mim
102	Nossa Humilde Prece Atende
110	Vêde, Morreu o Redentor
105	Cantemos Todos a Jesus
97	Comigo Habita
107	Deus Tal Amor por Nós Mostrou

Español Titles

(in pre-selected sequence)

Hymn No.	Hymn Title
187	Oh mi Padre
83	Entonad sagrado son
84	Dulce tu obra es, Señor
98	Conmigo quédate, Señor
105	Jesús de Nazaret
119	En un lejano cerro fue
118	Asombro me da
57	El amor del Salvador
71	Más santidad dame
69	Dónde hallo el solaz?
138	Señor, yo te seguiré
76	Tan sólo con pensar en ti
49	Señor, te necesito
73	Yo sé que vive mi Señor
199	Dios vive
78	Oh dulce, grata oración
116	Jesús, en la corte celestial
77	Deja que el Espíritu te enseñe
60	Venid a Cristo
87	Cual rocío, que destila
196	Soy un hijo de Dios
115	Nos reunimos, Padre, hoy
120	Tan humilde al nacer
56	Jehová mi Pastor es
111	En el Calvario, en la cruz
61	Venid a mí
102	Hoy con humildad te pido
114	Cristo, el Redentor, murió
109	Cantemos todos a Jesús
99	Acompáñame
112	El Padre tanto nos amó

Français Titles

(in pre-selected sequence)

Hymn No.	Hymn Title
185	Ô mon Père
83	Élevons nos chants sacrés
84	Douce est la tâche, ô Dieu, mon roi
93	Demeure auprès de moi, Seigneur!
105	Jésus de Nazareth, Sauveur et Roi
118	Il est une colline au loin
117	Merveilleux l'amour
59	Divin amour
70	Ah, donne-moi, Père
68	Où pourrais-je chercher?
141	Seigneur, je te suivrai
76	Ô Jésus, quand je pense à toi
53	Oh, j'ai besoin de toi
73	Je sais qu'il vit, mon Rédempteur
196	Je sais que mon Dieu vit
77	Ah, douce est l'heure de prier
113	Oh, quel amour
78	Que l'Esprit soit avec nous
62	Venez à Jésus! Il vous appelle
82	Comme, à l'aube, la rosée
193	Je suis enfant de Dieu
114	En souvenir de Jésus-Christ
96	Jésus né bien humblement
57	L'Éternel est mon berger
108	C'est sur la croix
61	Viens et suis-moi!
97	En toute humilité
115	Voyez: il meurt, le Rédempteur
106	Louant ton nom, Seigneur Jésus
92	Reste avec nous, Seigneur
111	Notre Dieu nous a tant aimés

Notes:

SPECIFICATIONS

Keyboard	88 Weighted Keys
Polyphony	96 Note Maximum
Preset Sounds :	
Piano	Piano 1 (Bright Concert Grand), Piano 2 (Mellow Concert Grand)
Organ	Organ 1 (Soft Strings), Organ 2 (Mellow Flutes), Organ 3 (Medium Ensemble), Organ 4 (Loud Ensemble), Organ 5 (Full Ensemble)
Bass Coupler	Adds octave bass on lowest note played (up to G5)
Playing Features	Hymn Player, Prelude Music
Effects	Reverb (Preset)
Other Controls	Volume Slider, Tempo Controls, Transpose Controls, LCD Contrast Control
System Mode	Speaker Assignments, 16 channel MIDI Selection, Tuning Adjustment, Restore Factory Settings.
Language Selection	4 (English, Portuguese, Spanish, French)
Pedals	Piano : Three "piano only" pedals - Soft, Sostenuto, Sustain Organ : Organ Expression Pedal
Jacks	Headphone (2), Line In (L/Mono, R), Line Out (L/Mono, R) MIDI (In/Out/Thru)
Output Power	Midrange & Treble : 50W x 2 Bass : 200W
Speakers	Midrange & Treble (Two 6"x9", Two 3", Two 1", Two monitor 1") Bass : (Two 10")
Power Consumption	350W, 3.4A at 120V
Dimensions	55" Width, 28" Depth, 44" Height
Weight	400 lbs. with bench

KAWAI

LH-2 Owner's Manual
816050
Printed in Indonesia