YAMAHA

# Clavinova®

# CLP-950
# CLP-950M
# CLP-950C
# CLP-930

## Owner's Manual
## Bedienungsanleitung
## Mode d'emploi
## Manual de instrucciones

ENGLISH

DEUTSCH

FRANÇAIS

ESPAÑOL

## IMPORTANT

**Check your power supply**

Make sure that your local AC mains voltage matches the voltage specified on the name plate on the bottom panel. In some areas a voltage selector may be provided on the bottom panel of the main keyboard unit near the power cord. Make sure that the voltage selector is set for the voltage in your area. The voltage selector is set at 240V when the unit is initially shipped. To change the setting use a "minus" screwdriver to rotate the selector dial so that the correct voltage appears next to the pointer on the panel.

## WICHTIG

**Überprüfung der Stromversorgung**

Vergewissern Sie sich vor dem Anschließen an das Stromnetz, daß die örtliche Netzspannung den Betriebsspannungswerten auf dem Typenschild an der Unterseite des Instruments entspricht. In bestimmten Verkaufsgebieten ist das Instrument mit einem Spannungswähler an der Unterseite neben der Netzkabeldurchführung ausgestattet. Falls vorhanden, muß der Spannungswähler auf die örtliche Netzspannung eingestellt werden. Der Spannungswähler wurde werkseitig auf 240 V voreingestellt. Zum Verstellen drehen Sie den Spannungsregler mit einem Schlitzschraubendreher, bis der Zeiger auf den korrekten Spannungswert weist.

## IMPORTANT

**Contrôler la source d'alimentation**

Vérifiez que la tension spécifiée sur le panneau inférieur correspond à la tension du secteur. Dans certaines régions, l'instrument peut être équipé d'un sélecteur de tension situé sur le panneau inférieur du clavier à proximité du cordon d'alimentation. Vérifiez que ce sélecteur est bien réglé en fonction de la tension secteur de votre région. Le sélecteur de tension est réglé sur 240 V au départ d'usine. Pour modifier ce réglage, utilisez un tournevis à lame plate pour tourner le sélecteur afin de mettre l'indication correspondant à la tension de votre région vis à vis du repère triangulaire situé sur le panneau.

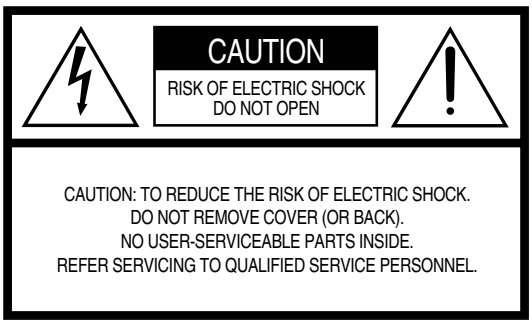
## IMPORTANTE

**Verifique la alimentación de corriente**

Asegúrese de que tensión de alimentación de CA de su área corresponde con la tensión especificada en la placa de características del panel inferior. En algunas zonas puede haberse incorporado un selector de tensión en el panel inferior de la unidad del teclado principal, cerca del cable de alimentación. Asegúrese de que el selector de tensión esté ajustado a la tensión de su área. El selector de tensión se ajusta a 240V cuando la unidad sale de fábrica. Para cambiar el ajuste, emplee un destornillador de cabeza "recta" para girar el selector de modo que aparezca la tensión correcta al lado del indicador del panel.

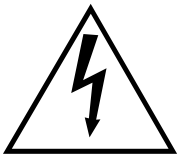
# SPECIAL MESSAGE SECTION

**PRODUCT SAFETY MARKINGS:** Yamaha electronic products may have either labels similar to the graphics shown below or molded/stamped facsimiles of these graphics on the enclosure. The explanation of these graphics appears on this page. Please observe all cautions indicated on this page and those indicated in the safety instruction section.




See bottom of Keyboard enclosure for graphic symbol markings

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



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

**IMPORTANT NOTICE:** All Yamaha electronic products are tested and approved by an independent safety testing laboratory in order that you may be sure that when it is properly installed and used in its normal and customary manner, all foreseeable risks have been eliminated. DO NOT modify this unit or commission others to do so unless specifically authorized by Yamaha. Product performance and/or safety standards may be diminished. Claims filed under the expressed warranty may be denied if the unit is/has been modified. Implied warranties may also be affected.

**SPECIFICATIONS SUBJECT TO CHANGE:** The information contained in this manual is believed to be correct at the time of printing. However, Yamaha reserves the right to change or modify any of the specifications without notice or obligation to update existing units.

**ENVIRONMENTAL ISSUES:** Yamaha strives to produce products that are both user safe and environmentally friendly. We sincerely believe that our products and the production methods used to produce them, meet these goals. In keeping with both the letter and the spirit of the law, we want you to be aware of the following:

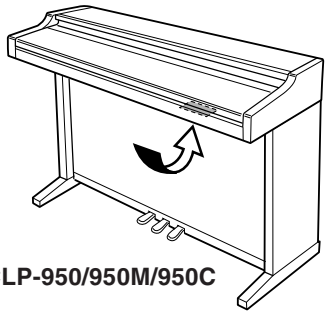
**Battery Notice:** This product MAY contain a small non-rechargable battery which (if applicable) is soldered in place. The average life span of this type of battery is approximately five years. When replacement becomes necessary, contact a qualified service representative to perform the replacement.

**Warning:** Do not attempt to recharge, disassemble, or incinerate this type of battery. Keep all batteries away from children. Dispose of used batteries promptly and as regulated by applicable laws. Note: In some areas, the servicer is required by law to return the defective parts. However, you do have the option of having the servicer dispose of these parts for you.

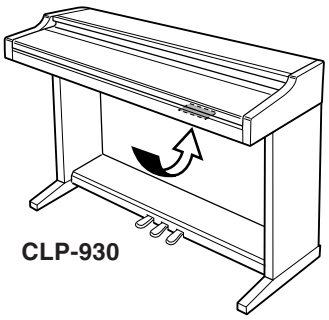
**Disposal Notice:** Should this product become damaged beyond repair, or for some reason its useful life is considered to be at an end, please observe all local, state, and federal regulations that relate to the disposal of products that contain lead, batteries, plastics, etc.

**NOTICE:** Service charges incurred due to lack of knowledge relating to how a function or effect works (when the unit is operating as designed) are not covered by the manufacturer's warranty, and are therefore the owners responsibility. Please study this manual carefully and consult your dealer before requesting service.

**NAME PLATE LOCATION:** The graphic below indicates the location of the name plate. The model number, serial number, power requirements, etc., are located on this plate. You should record the model number, serial number, and the date of purchase in the spaces provided below and retain this manual as a permanent record of your purchase.



**CLP-950/950M/950C**



**CLP-930**

**Model** _____

**Serial No.** _____

**Purchase Date** _____

# PRECAUTIONS

## *PLEASE READ CAREFULLY BEFORE PROCEEDING*

* Please keep these precautions in a safe place for future reference.

## ⚠ *WARNING*

**Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following:**

- Do not open the instrument or attempt to disassemble the internal parts or modify them in any way. The instrument contains no user-serviceable parts. If it should appear to be malfunctioning, discontinue use immediately and have it inspected by qualified Yamaha service personnel.
- Do not expose the instrument to rain, use it near water or in damp or wet conditions, or place containers on it containing liquids which might spill into any openings.
- If the power cord or plug becomes frayed or damaged, or if there is a sudden loss of sound during use of the instrument, or if any unusual smells or smoke should appear to be caused by it, immediately turn off the power switch, disconnect the electric plug from the outlet, and have the instrument inspected by qualified Yamaha service personnel.
- Only use the voltage specified as correct for the instrument. The required voltage is printed on the name plate of the instrument.
- Before cleaning the instrument, always remove the electric plug from the outlet. Never insert or remove an electric plug with wet hands.
- Check the electric plug periodically and remove any dirt or dust which may have accumulated on it.

## ⚠ *CAUTION*

**Always follow the basic precautions listed below to avoid the possibility of physical injury to you or others, or damage to the instrument or other property. These precautions include, but are not limited to, the following:**

- Do not place the power cord near heat sources such as heaters or radiators, and do not excessively bend or otherwise damage the cord, place heavy objects on it, or place it in a position where anyone could walk on, trip over, or roll anything over it.
- When removing the electric plug from the instrument or an outlet, always hold the plug itself and not the cord. Pulling by the cord can damage it.
- Do not connect the instrument to an electrical outlet using a multiple-connector. Doing so can result in lower sound quality, or possibly cause overheating in the outlet.
- Remove the electric plug from the outlet when the instrument is not to be used for extended periods of time, or during electrical storms.
- Before connecting the instrument to other electronic components, turn off the power for all components. Before turning the power on or off for all components, set all volume levels to minimum. Also, be sure to set the volumes of all components at their minimum levels and gradually raise the volume controls while playing the instrument to set the desired listening level.
- Do not expose the instrument to excessive dust or vibrations, or extreme cold or heat (such as in direct sunlight, near a heater, or in a car during the day) to prevent the possibility of panel disfiguration or damage to the internal components.
- Do not use the instrument near other electrical products such as televisions, radios, or speakers, since this might cause interference which can affect proper operation of the other products.
- Do not place the instrument in an unstable position where it might accidentally fall over.
- Before moving the instrument, remove all connected cables.
- When cleaning the instrument, use a soft, dry or slightly damp cloth. Do not use paint thinners, solvents, cleaning fluids, or chemical-impregnated wiping cloths. Also, do not place vinyl, plastic or rubber objects on the instrument, since this might discolor the panel or keyboard.
- Do not rest your weight on, or place heavy objects on the instrument, and do not use excessive force on the buttons, switches or connectors.
- Take care that the key cover does not pinch your fingers, and do not insert a finger or hand in the key cover gap.
- Never insert or drop paper or metallic or other objects between the slits of the key cover and the keyboard. If this happens, immediately turn off the power and remove the electric plug from the outlet and have the instrument inspected by qualified Yamaha service personnel.
- Do not place the instrument against a wall (allow at least 3 cm/one-inch from the wall), since this can cause inadequate air circulation, and possibly result in the instrument overheating.
- Read carefully the attached documentation explaining the assembly process. Failure to assemble the instrument in the proper sequence might result in damage to the instrument or even injury.
- Do not operate the instrument for a long period of time at a high or uncomfortable volume level, since this can cause permanent hearing loss. If you experience any hearing loss or ringing in the ears, consult a physician.

### ■USING THE BENCH (if included)

- Do not play carelessly with or stand on the bench. Using it as a tool or stepladder or for any other purpose might result in accident or injury.
- Only one person should sit on the bench at a time, in order to prevent the possibility of accident or injury.
- If the bench screws become loose due to extensive long-term use, tighten them periodically using the included tool.

### ■SAVING USER DATA

- Save all data to an external device such as the Yamaha MIDI Data Filer MDF3, in order to help prevent the loss of important data due to a malfunction or user operating error.

Yamaha cannot be held responsible for damage caused by improper use or modifications to the instrument, or data that is lost or destroyed.

Always turn the power off when the instrument is not in use.

# Introduction

*Thank you for choosing a Yamaha Clavinova. Your Clavinova is a fine musical instrument that employs advanced Yamaha music technology. With the proper care, your Clavinova will give you many years of musical pleasure.*

- The Clavinova CLP-950/930 digital piano offers unmatched sonic realism and natural grand-piano type playability with Yamaha's original "AWM Dynamic Stereo Sampling" tone generation technology on the CLP-950 and "AWM Stereo Sampling" on the CLP-930 for rich, musical voices, and a special "Graded Hammer" keyboard which provides graded key weight and response throughout the keyboard range. The grand piano voices feature totally new samples painstakingly recorded from a full concert grand piano.
  The CLP-950 GRAND PIANO 1 voice features multiple velocity-switched samples (Dynamic Sampling), a "Soundboard Reverb" effect which accurately simulates the resonance of a piano soundboard, special "Sustain Samples" which recreate the unique resonance of an acoustic grand piano's soundboard and strings when the damper pedal is pressed, and "Key-off Samples" that add the subtle sound produced when the keys are released.
- Dual mode allows 2 voices to be played simultaneously.
- Split mode (CLP-950) allows different voices to be played by the left and right hands.
- Metronome feature with variable tempo facilitates practice.
- 2-track digital recorder lets you record and play back anything you play on the keyboard.
- MIDI compatibility and a range of MIDI functions make the Clavinova useful in a range of advanced MIDI music systems.
- Built-in computer interface for direct connection to personal computers running advanced music software. The music stand can be removed to allow placement of a laptop-type personal computer or other equipment on top of the instrument.

In order to make the most of your Clavinova's performance potential and features, we urge you to read this Owner's Manual thoroughly, and keep it in a safe place for later reference.

* The models CLP-950M and CLP-950C will be referred to as the CLP-950 in this Owner's Manual.



## Included Accessories

- **Owner's Manual**
- **Bench (included or optional depending on locale)**
- **"50 greats for the Clavinova" Score Collection**

"The Clavinova-Computer Connection" is a supplementary guidebook that describes, for beginners, what you can do with your Clavinova and a personal computer and how to set up a Clavinova-Computer system (the manual is not written for any specific models). The document is available as a PDF file (in English) at the following Internet address:

**Clavinova Home Page:**
http://www.yamaha.co.jp/english/product/cl/

**Yamaha Manual Library** (Electronic Musical Instruments)
http://www2.yamaha.co.jp/manual/english/

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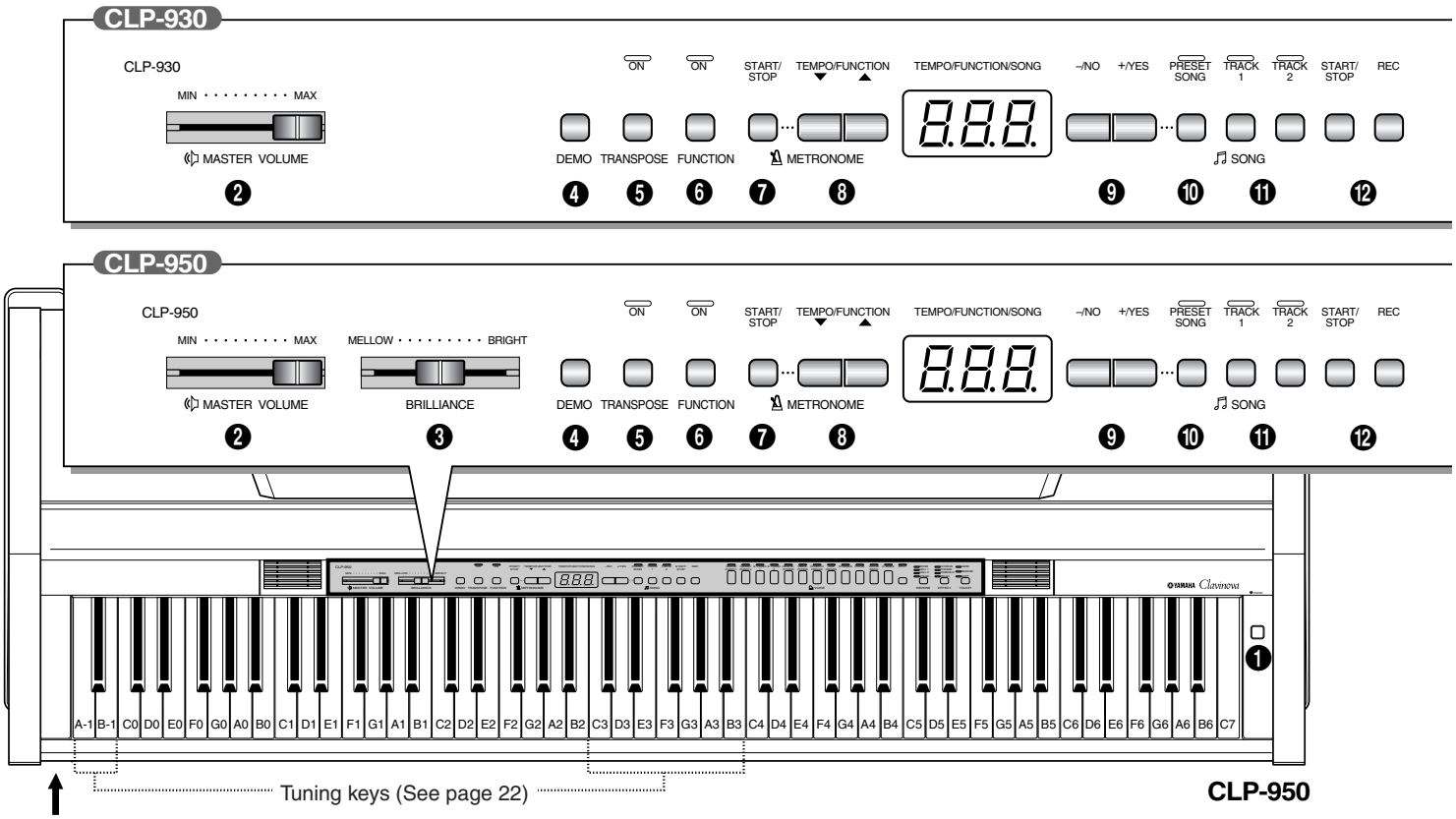
# The Control Panel




### ❶ [POWER] Switch

Press the **[POWER]** switch once to turn the power ON, a second time to turn the power OFF. When the power is initially turned ON, a voice selector LED will light, and the power indicator located below the left end of the keyboard will light.

### ❷ [MASTER VOLUME] Control

The **[MASTER VOLUME]** control adjusts the volume (level) of sound produced by the Clavinova's internal stereo sound system. The **[MASTER VOLUME]** control also adjusts headphone volume when a pair of headphones is plugged into the PHONES jack (page 10).

### ❸ [BRILLIANCE] Control (CLP-950)

The **[BRILLIANCE]** Control adjusts the tonality or "timbre" of the output sound from a mellow tone to a bright tone.

### ❹ [DEMO] Button

Activates the demo playback mode in which you can select playback of different demonstration sequences for each of the Clavinova's voices. See page 12 for details.

### ❺ [TRANSPOSE] Button

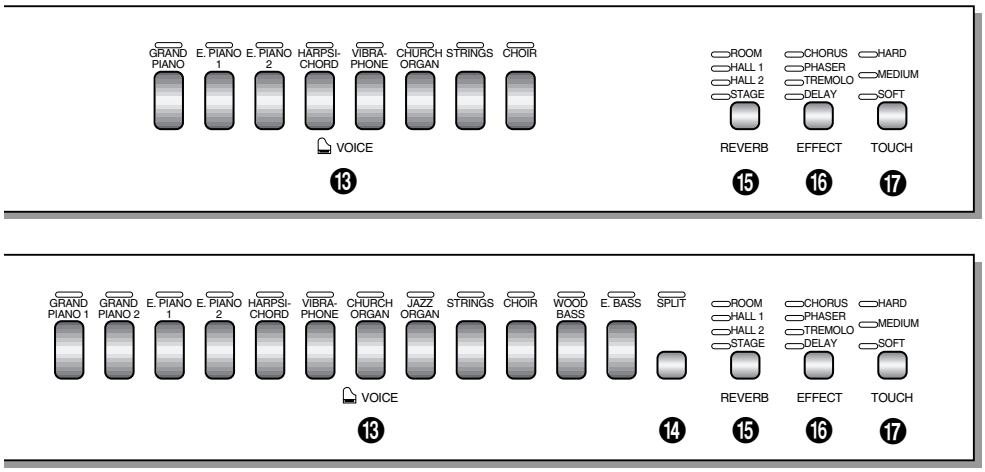
The **[TRANSPOSE]** button allows access to the Clavinova's TRANSPOSE function (to shift the pitch of the entire keyboard up or down in semitone intervals).

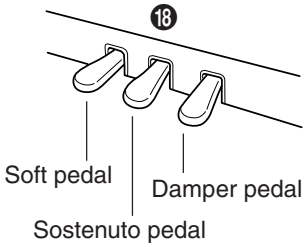
### ❻ [FUNCTION] Button

This button accesses a range of utility functions — including the MIDI functions — that significantly enhance versatility and playability. See page 27 for details.

### ❼ METRONOME [START/STOP] Button

Turns the metronome sound on and off. The **[TEMPO/FUNCTION ▼, ▲]** buttons are used to set the tempo of the metronome sound. The **[–/NO]** and **[+/YES]** buttons are used to change the time signature (beat) of the metronome if used while the **METRONOME [START/STOP]** button is held — page 23.




### ❽ [TEMPO/FUNCTION ▼, ▲] Buttons

These buttons adjust the tempo of the metronome function as well as the playback tempo of the recorder function. The tempo range is from 32 to 280 beats per minute — page 23. These same buttons are also used to select functions — page 27.

### ❾ [–/NO], [+/YES] Buttons

These buttons select a preset song number for playback, and are also used to adjust a range of other parameters.

### ❿ [PRESET SONG] Button

This button enters the preset song mode. While in this mode you can use the **[–/NO]** and **[+/YES]** buttons to select from 50 songs.

### ⓫ TRACK [1] and [2] Buttons

The Clavinova has a 2-track recorder, and these buttons are used to select the track(s) to be recorded or played back. See page 24 for details.

### ⓬ SONG [START/STOP] and [REC] Buttons

These buttons control the Clavinova's user song recorder, letting you record and play back just about anything you play on the keyboard.

### ⓭ Voice Selectors

Simply press any of the voice selectors to select the corresponding voice. The voice selector LED will light to indicate which voice is currently selected.

There is also a dual mode in which two voices can be played simultaneously across the full range of the keyboard (see page 16 for details), and a split mode on the CLP-950 which allows different voices to be played by the left and right hands (see page 17 for details).

### ⓮ [SPLIT] Button (CLP-950)

Engages the split mode, in which different voices can be played on the left- and right-hand sections of the keyboard. See page 17 for details.

### ⓯ [REVERB] Button

The **[REVERB]** button selects a number of digital reverb effects that you can use for extra depth and expressive power. See page 18 for details.

### ⓰ [EFFECT] Button

This button selects a number of effects which can give your sound greater depth and animation.

### ⓱ [TOUCH] Button

The **[TOUCH]** button makes it easy to adjust the touch response of the Clavinova to match your playing style. See page 21 for details.

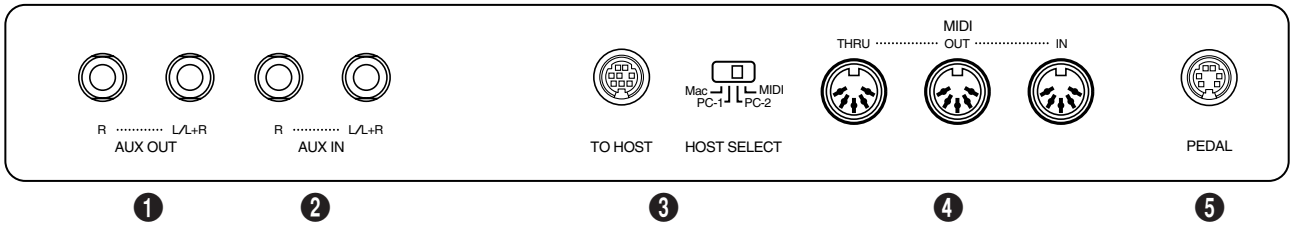
### ⓲ Pedals

The soft (left), sostenuto (center) and damper (right) pedals provide a range of expressive control capabilities similar to the pedal functions on an acoustic piano. See page 20 for details.

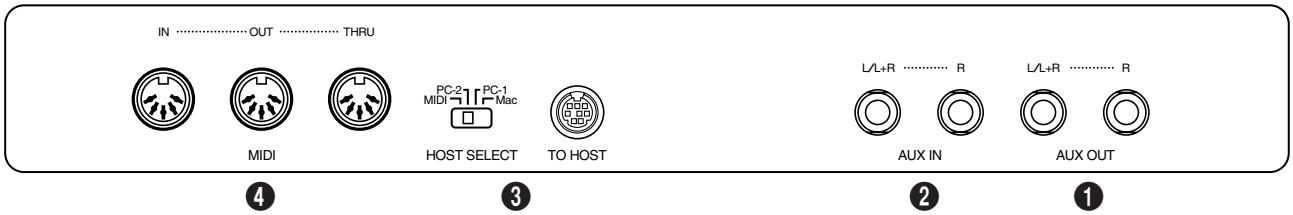
# Connections

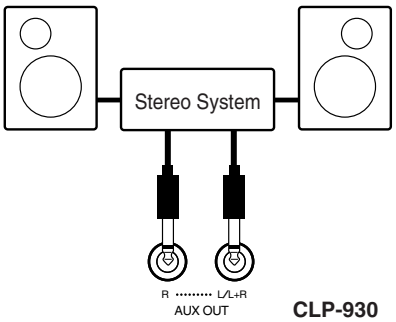
⚠ ***CAUTION*** • ***Before connecting the Clavinova to other electronic components, turn off the power for all components. Before turning the power on or off for all components, set all-volume levels to minimum.***

### CLP-930 Bottom Panel




### CLP-950 Bottom Panel




**CLP-930**

## ❶ AUX OUT L/L+R and R Jacks

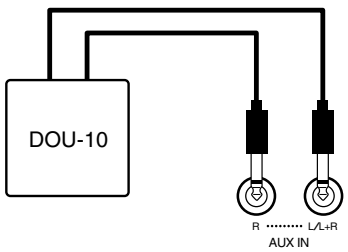
The AUX OUT L/L+R and R jacks deliver the output of the Clavinova for connection to an instrument amplifier, mixing console, PA system, or recording equipment. If you will be connecting the Clavinova to a monaural sound system, use only the L/L+R jack. When a plug is inserted into the L/L+R jack only, the left- and right-channel signals are combined and delivered via the L/L+R jack so you don't lose any of the Clavinova's sound.

⚠ ***CAUTION***

- ***When the Clavinova's AUX OUT jacks are connected to an external sound system, first turn the Clavinova power on, and then the power to the external amplifier/speaker system. Reverse this order when turning the power off.***
- ***The AUX OUT jack signal must never be returned to the AUX IN jacks, either directly or through external equipment.***

NOTE

- *The AUX OUT jack signal is not controlled by the Clavinova's volume or brilliance (CLP-950) control. Use the volume control on the external audio equipment to adjust the level.*




**CLP-930**

## ❷ AUX IN L/L+R and R Jacks

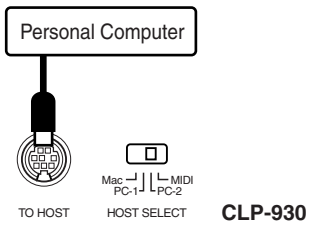
These jacks are intended for use with an external tone generator module such as the Yamaha DOU-10 Disk Orchestra Unit. The stereo outputs from the external tone generator module are connected to the AUX IN L/L+R and R jacks, allowing the sound of the tone generator to be reproduced via the Clavinova's internal sound system and speakers. A line-level mono source can be connected to the L/L+R jack.

⚠ ***CAUTION***

- ***When the Clavinova's AUX IN jacks are connected to an external source, first turn the power to the external device on, and then the power to the Clavinova. Reverse this order when turning the power off.***

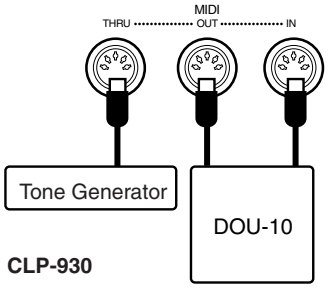
NOTE

- *The input signal from the AUX IN jacks is controlled by the Clavinova's volume and brilliance (CLP-950) controls. Reverb and effect functions will have no affect.*
- *The input signal from the AUX IN jacks is delivered to the AUX OUT jacks.*




### ❸ TO HOST Connector & HOST SELECT Switch

This jack and selector switch allow direct connection to a personal computer for sequencing and other music applications — without the need for a separate MIDI interface. See page 37 for details.



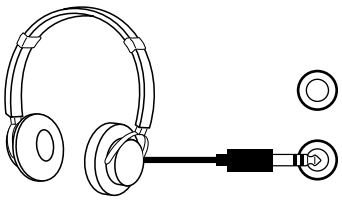

### ❹ MIDI IN, THRU and OUT Connectors

The MIDI IN connector receives MIDI data from an external MIDI device (such as the DOU-10 Disk Orchestra Unit) which can be used to control the Clavinova. The MIDI THRU connector retransmits any data received at the MIDI IN connector, allowing "chaining" of several MIDI instruments or other devices. The MIDI OUT connector transmits MIDI data generated by the Clavinova (e.g. note and velocity data produced by playing the Clavinova keyboard).

More details on MIDI are given in "MIDI Functions" on page 33.

### ❺ PEDAL Jack (CLP-930)

This terminal is for connecting the pedal cord from the pedal box (refer to the "Keyboard Stand Assembly" on pages 55-59).

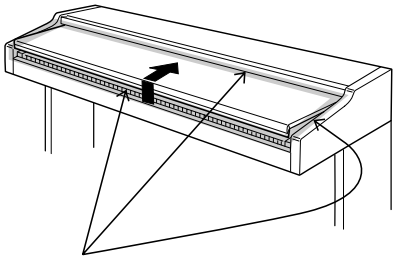


### ● PHONES Jacks (Bottom Panel)

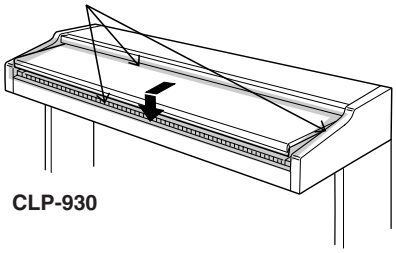
Two sets of standard stereo headphones can be plugged in here for private practice or late-night playing. The internal speaker system is automatically shut off when a pair of headphones is plugged into either of the PHONES jacks.

# Key Cover & Music Stand

## Key Cover



Be careful to avoid catching your fingers when opening or closing the cover.



CLP-930

### To open the key cover:

1 Lift the cover slightly.

2 Slide the cover open.

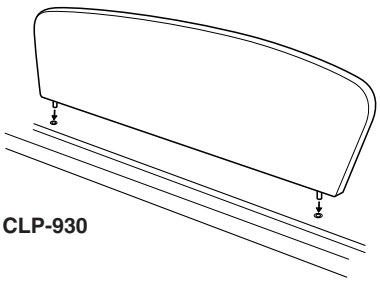
### To close the key cover:

1 Slide the cover toward you.

2 Gently lower the cover over the keys.

> ⚠ ***CAUTION***
>
> - ***Hold the cover with both hands when moving it, and do not release it until it is fully opened or closed. Be careful to avoid catching fingers (yours or others) between the cover and main unit.***
> - ***Do not place objects on top of the key cover. Small objects placed on the key cover may fall inside the main unit when the cover is opened and may not be able to be removed. This could cause electric shock, short circuit, fire or other serious damage to the instrument.***

## Music Stand



CLP-930

The Clavinova is supplied with a music stand that can be attached to the instrument by inserting it into the holes at the top of panel.

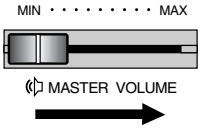
NOTE

- *The music stand can be removed to allow placement of a laptop-type personal computer or other equipment on top of the instrument.*


## 1 Turn Power On

After making sure that the Clavinova's AC cord is properly plugged into the Clavinova itself and plugged into a convenient AC wall outlet, press the **[POWER]** switch located to the right of the keyboard to turn the power ON. In some areas a plug adaptor may be provided to match the pin configuration of the AC wall outlets in your area.

When the power is turned ON, one of the voice selector LEDs will light, and the power indicator located below the left end of the keyboard will light.



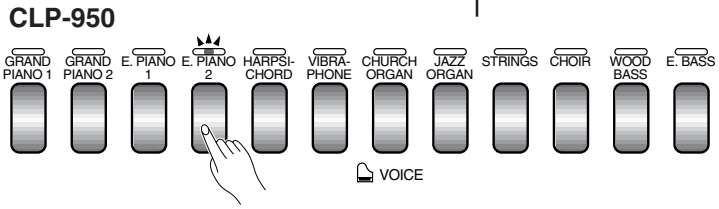

## 2 Set the Volume

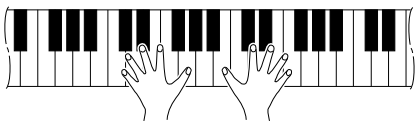
Initially set the **[MASTER VOLUME]** control about half way between the "MIN" and "MAX" settings. Then, when you start playing, re-adjust the **[MASTER VOLUME]** control for the most comfortable listening level.

## 3 Select a Voice

Select the desired voice by pressing one of the voice selectors.

NOTE • *See "Voice Descriptions" on page 41.*

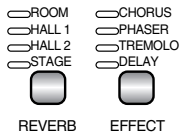


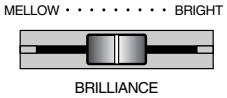



## 4 Play

The Clavinova also offers keyboard touch response, so the volume and timbre of notes played can be controlled according to how "hard" you play the keys. The amount of variation available depends on the selected voice.

NOTE • *Some voices do not have keyboard touch response. See "Voice Descriptions" on page 41 for details.*




## 5 Add Effects As Required

You can add or change reverb, effects and brilliance (CLP-950) as desired by using the **[REVERB]** button (page 18), **[EFFECT]** button (page 19) and the **[BRILLIANCE]** control (page 19).

# Playing the Demonstration Tunes

Demonstration tunes are provided that effectively demonstrate each of the Clavinova's voices. There are also 50 preset songs that you can play individually, all in sequence, or in random order. The "50 greats for the Clavinova" score collection provided with the Clavinova includes the written scores for all 50 preset songs. Here's how you can select and play the demo tunes.

NOTE

- *The demo or preset song mode cannot be engaged while a user song recorder (page 24) is in use.*
- *No MIDI reception occurs in the demo/preset song mode.*
- *The demo/preset song data is not transmitted via the MIDI connectors.*

*** See page 42 for a complete listing of the demo tunes.**

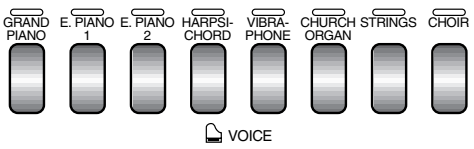
## Voice Demo


### 1 Engage the Demo Mode

Press the **[DEMO]** button to engage the demo mode — the voice selector indicators will flash in sequence.

### 2 Play a Voice Demo

**CLP-930**




Press one of the voice selectors to start playback of all songs starting from the corresponding voice demo tune — featuring the voice normally selected by that voice selector button. (If you press the **SONG [START/STOP]** button instead of a voice selector button, the GRAND PIANO 1 (GRAND PIANO: CLP-930) demo tune will begin playback.) The indicator of the selected voice selector button will flash during playback, and "- - -" will appear on the LED display. You can start playback of any other voice demo tune during playback by simply pressing the corresponding voice selector. You can stop playback at any time by pressing the **SONG [START/STOP]** button or the voice selector of the currently playing demo.

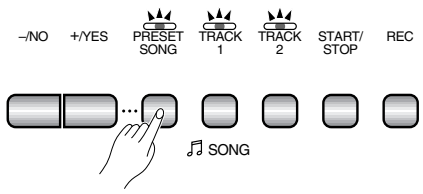
NOTE

- *Use the [MASTER VOLUME] control to adjust the volume and the [BRILLIANCE] control (CLP-950) to adjust the brilliance (page 19).*


### 3 Exit From the Demo Mode

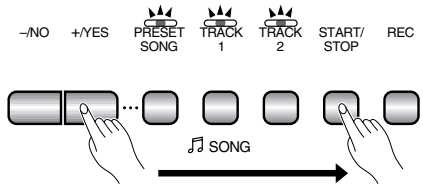
Press the **[DEMO]** button to exit from the demo mode and return to the normal play mode.

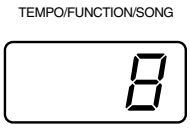
# Preset Song




## 1 Engage the Preset Song Mode

Press the **[PRESET SONG]** button to engage the preset song mode — the **[PRESET SONG]**, **TRACK [1]** and **[2]** indicators will light.



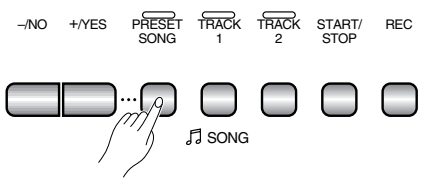

## 2 Play a Preset Song

To play any of the 50 preset songs provided, use the **[–/NO]**, **[+/YES]** buttons to select the number of the tune you want to play (the number will appear on the LED display), then press the **SONG [START/STOP]** button. Playback will stop automatically when playback of the selected preset song has finished.

Select "ALL" instead of a number to play all preset songs in sequence, or select "rnd" to continuously play all preset songs in random order. Press the **SONG [START/STOP]** button to stop playback.

NOTE

- *Use the [MASTER VOLUME] control to adjust the volume.*
- *You can use the [TEMPO/FUNCTION ▼,▲] buttons to adjust the playback tempo as required. This produces a relative tempo variation, with a range from "-50" through "- - -" to "50" at maximum; the range will differ depending on the selected song.*
- *The default tempo "- - -" is automatically selected whenever a new preset song is selected, or playback of a new preset song begins during "ALL" or "rnd" playback.*
- *You can play the keyboard along with the preset song playback. The voice playing on the keyboard can be changed.*
- *You can change the Brilliance control (CLP-950) and Reverb type that is applied to the voice you play on the keyboard and for the preset song playback. You can change the Effect type and Touch sensitivity that is applied to the voice you play on the keyboard. When a new preset song is selected or a new preset song is automatically started in continuous play, the HALL 1 reverb type will automatically be selected.*

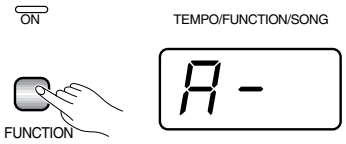



## 3 Exit From the Preset Song Mode

Press the **[PRESET SONG]** button to exit from the preset song mode, the indicator will go off, and return to the normal play mode.

# Preset Song A-B Repeat

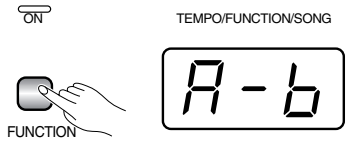
The A-B Repeat function can be used to continuously repeat a specified phrase within a preset song. Combined with the Part Cancel function described below, this provides an excellent way to practice difficult phrases.




## 1 Specify the Beginning (A) of the Phrase

Select and play a preset song, then press the **[FUNCTION]** button at the beginning of the phrase you want to repeat. This sets the "A" point ("A-" will appear on the display).

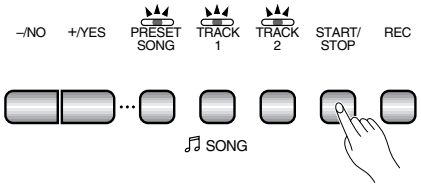
To set the "A" point at the very beginning of the song, press the **[FUNCTION]** button before starting playback.




## 2 Specify the End (B) of the Phrase

Press the **[FUNCTION]** button a second time at the end of the phrase. This sets the "B" point ("A-b" will appear on the display). At this point repeat playback will begin between the specified A and B points. The metronome will sound when playback begins to give you a tempo reference. However, if playback repeats from the beginning of the song, there will be no tempo reference from metronome.

To set the B point at the song's end, press the **[FUNCTION]** button after song playback is complete and before "A-" disappears from the display.




## 3 Stop Playback

Press the **SONG [START/STOP]** button to stop playback while retaining the specified A and B points. A-B repeat playback will resume if the **SONG [START/STOP]** button is then pressed again.

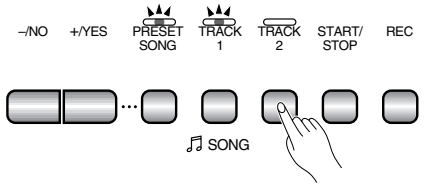
To cancel the A and B points press the **[FUNCTION]** button once.

NOTE

- *The A and B points are automatically canceled when a new song is selected.*
- *The A-B Repeat function cannot be used during "ALL" or "rnd" playback.*

# Preset Song Part Cancel

The 50 preset songs have separate left- and right-hand parts that can be turned on and off as required so you can practice the corresponding part on the keyboard. The right-hand part is played by **TRACK [1]** track, and the left-hand part is played by **TRACK [2]** track.

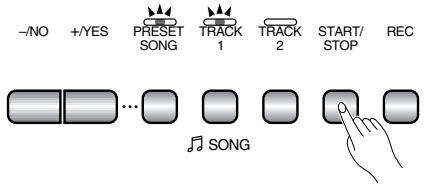



## 1 Turn the Desired Part Off

Press the **TRACK [1]** or **[2]** button to turn the corresponding part off — the corresponding indicator will go out (these buttons alternately toggle the corresponding part on and off).

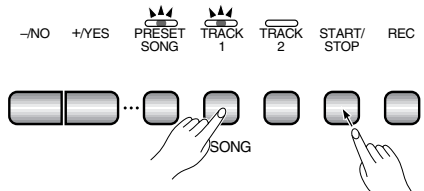
NOTE

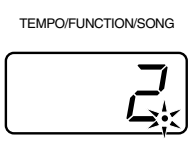
- *The parts can be turned on or off even during playback.*
- *The Preset Song Part Cancel function cannot be used during "ALL" or "rnd" playback.*
- *The "Preset Song Part Cancel Volume" function described on page 32 can be used to set the canceled part so that it plays at a volume from "0" (no sound) to "20". The default setting is "5".*
- *Both parts are automatically turned ON whenever a new song is selected.*




## 2 Start/Stop Playback

Press the **SONG [START/STOP]** button to start and stop playback as required.




## Synchro Start

When the Synchro Start function is engaged, playback of the selected preset song will begin automatically as soon as you start playing on the keyboard.

To engage the Synchro Start function press the **SONG [START/STOP]** button while holding the part button corresponding to the part which is ON. A dot will appear in the lower right corner of the display. (Repeat the previous operation to disengage the Syncro Start function.)

Playback will then start as soon as you begin playing on the keyboard.

NOTE

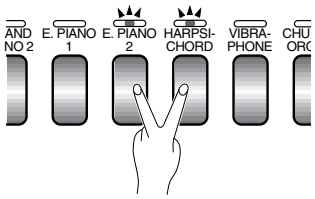
- *If you hold a track button which is OFF while pressing the SONG [START/STOP] button, that track will be turned ON and the Synchro Start mode will be engaged.*

## Left Pedal Start/Stop

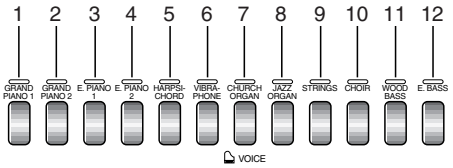
The left pedal can be assigned to start and stop preset song playback via the "Left Pedal Mode" function described on pages 31 (CLP-930) and 32 (CLP-950).

# The Dual Mode

The dual mode makes it possible to play two voices simultaneously across the entire range of the keyboard.




**Voice numbering priority**




**CLP-950**

To activate the dual mode simply press two voice selectors at the same time (or press one voice selector while holding another). The voice indicators of both selected voices will light when the dual mode is active. To return to the normal single-voice play mode, press any single voice selector.

According to the voice numbering priority as shown in the diagram on the left, lower valued voice numbers will be designated as the 1st Voice (the other voice will be designated as the 2nd Voice).

NOTE

- *The dual and split modes (CLP-950) cannot be engaged at the same time.*
- ***[EFFECT] in the Dual Mode***
  *Depending upon the conditions one effect type will take priority over the other. Depth will be decided according to the depth default value of the voice combination. However, using function F3 (see page 29) you can change the depth value for each voice as you like.*
  *Effect depth setting via the panel controls (i.e. pressing the [-/NO] or [+/YES] buttons while holding the [EFFECT] button — see page 19) will be applied to the 1st Voice only.*
- ***[REVERB] in the Dual Mode***
  *The reverb type assigned to the 1st Voice will take priority over the other. (If the reverb is set to OFF, the 2nd Voice's reverb type will be in affect.)*
  *Reverb depth setting via the panel controls (i.e. pressing the [-/NO] or [+/YES] buttons while holding the [REVERB] button — see page 18) will be applied to the 1st Voice only.*

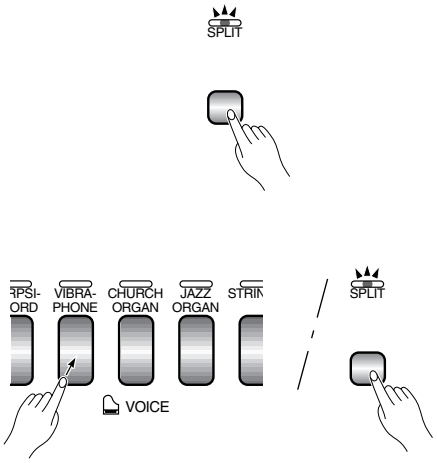
## Other Dual Mode Functions

The Clavinova Function mode provides access to a number of other dual-mode functions, listed below. See the corresponding pages for details.


- Dual Balance ..... 29
- Dual Detune ..... 29
- 1st Voice Octave Shift ..... 29
- 2nd Voice Octave Shift ..... 29
- 1st Voice Effect Depth ..... 30
- 2nd Voice Effect Depth ..... 30
- Reset ..... 30

# The Split Mode (CLP-950)

The split mode makes it possible to play two different voices on the keyboard — one with the left hand and another with the right hand. The Left Voice is played on all keys to the left of (and including) a specified "split point" key, while the Right Voice is played on all keys to the right of the split point key.




To activate the split mode simply press the **[SPLIT]** button so that its indicator lights. The split mode can be turned off at any time by pressing the **[SPLIT]** button again so that its indicator goes out.

NOTE • *The dual and split modes cannot be engaged at the same time.*

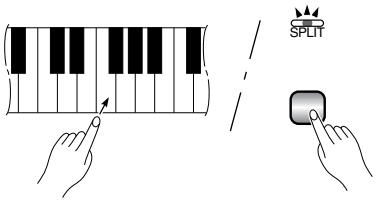
## Selecting the Right and Left Voices

The voice that was selected before the split mode was engaged becomes the Right Voice in the split mode. (The Right Voice can also be changed while in the split mode, by simply pressing the corresponding voice selector.)

To select a Left Voice press the corresponding voice selector while holding the **[SPLIT]** button (default: [WOOD BASS]). The indicator of the Left Voice selector will light while the **[SPLIT]** button is pressed, then only the Right Voice selector and **[SPLIT]** button indicators will remain lit.

NOTE

- ***[EFFECT] in the Split Mode***
  *Depending upon the conditions, one effect type will take priority over the other. Depth will be decided according to the depth default value of the voice combination. However, using function F4 (see page 30) you can change the depth value for each voice as you like.*
  *Effect depth setting via the panel controls (i.e. pressing the [-/NO] or [+/YES] buttons while holding the [EFFECT] button — see page 19) will be applied to the Right Voice only.*
- ***[REVERB] in the Split Mode***
  *The reverb type assigned to the Right Voice will take priority over the other. (If the reverb is set to OFF, the Left Voice's reverb type will be in affect.)*
  *Reverb depth setting via the panel controls (i.e. pressing the [-/NO] or [+/YES] buttons while holding the [REVERB] button — see page 18) will be applied to the Right Voice only.*




## Setting the Split Point

The split point is initially set at the F♯2 key by default. You can change the split point to any other key by pressing the key while holding the **[SPLIT]** button (the name of the current split-point key appears on the LED display while the **[SPLIT]** button is held). The split point can also be set via the Function mode (see below).

**Example:**

| A-1 | B♭-1 | C2 | F♯2 |
|---|---|---|---|

• "♭" is indicated with a lower "_".
• "♯" is indicated with an upper "‾".

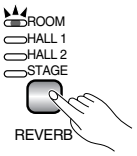
## Other Split Mode Functions

The Clavinova Function mode provides access to a number of other split-mode functions, listed below. See the corresponding pages for details.


- Split Point ..... 30
- Split Balance ..... 30
- Right Voice Octave Shift ..... 31
- Left Voice Octave Shift ..... 31
- Right Voice Effect Depth ..... 31
- Left Voice Effect Depth ..... 31
- Damper Range ..... 31
- Reset ..... 31

# Reverb

The **[REVERB]** button selects a number of digital reverb effects that you can use for extra depth and expressive power.




To select a reverb type press the **[REVERB]** button a few times until the indicator corresponding to the desired type lights (the indicators light in sequence each time the **[REVERB]** button is pressed). No reverb is produced when all indicators are off.

**OFF**
No reverb effect is selected when no REVERB indicator is lit.

**ROOM**
This setting add a continuous reverb effect to the sound that is similar to the type of acoustic reverberation you would hear in a room.

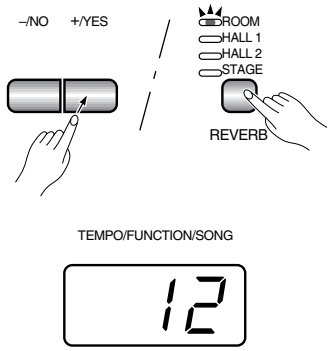
**HALL 1**
For a "bigger" reverb sound, use the HALL 1 setting. This effect simulates the natural reverberation of a small-size concert hall.

**HALL 2**
For a really spacious reverb sound, use the HALL 2 setting. This effect simulates the natural reverberation of a large concert hall.

**STAGE**
A simulation of the type of reverb produced in a stage environment.

NOTE

- *The default reverb type (including OFF) and depth settings are different for each voice.*
- *Even if the REVERB effect is OFF, a "soundboard reverb" effect will be applied when the CLP-950 GRAND PIANO 1 voice is selected.*

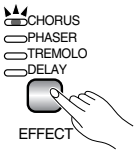



## Adjusting Reverb Depth

Adjust the reverb depth for the selected voice by using the **[–/NO]** and **[+/YES]** buttons while holding the **[REVERB]** button. The depth range is from 0 through 20 (the current depth setting appears on the LED display while the **[REVERB]** button is held). A setting of "0" produces no effect, while a setting of "20" produces maximum reverb depth. Press the **[–/NO]** and **[+/YES]** buttons simultaneously while holding the **[REVERB]** button to recall the default setting for the current voice (default depth settings are different for each voice).

# The Effect

The **[EFFECT]** button allows you to select one of the effects that can give your sound greater depth and animation.




To select an effect type press the **[EFFECT]** button a few times until the indicator corresponding to the desired type lights (the indicators light in sequence each time the **[EFFECT]** button is pressed). No effect is produced when all indicators are off.

**OFF**
No effect is selected when no EFFECT indicator is lit.

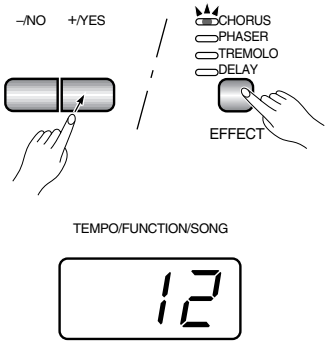
**CHORUS**
Shimmering, broadening effect

**PHASER**
Adds depth to the sound.

**TREMOLO**
Tremolo effect

**DELAY**
Echo effect

NOTE • *The default effect type (including OFF) and depth settings are different for each voice.*

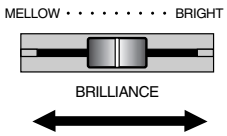



## Adjusting Effect Depth

Effect depth can be individually adjusted for the selected voice by using the **[–/NO]** and **[+/YES]** buttons while holding the **[EFFECT]** button. The depth range is from 0 through 20 (the current depth setting appears on the LED display while the **[EFFECT]** button is held). A setting of "0" produces no effect, while a setting of "20" produces maximum effect depth. Press the **[–/NO]** and **[+/YES]** buttons simultaneously while holding the **[EFFECT]** button to recall the default setting for the current voice (the default depth settings are different for each voice).

# Brilliance (CLP-950)

This control can be used to change the tonality or "timbre" of the sound output. The control range is from MELLOW to BRIGHT.

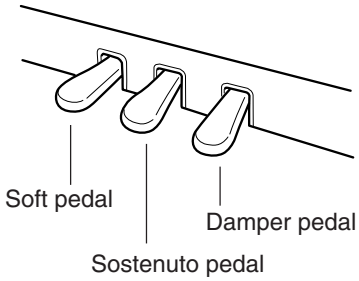



For a brighter or "sharper" tone, slide the control towards the BRIGHT position. For a "rounder" more mellow tone, slide the control towards the MELLOW position.

NOTE • *When the BRILLIANCE is set to BRIGHT, the overall sound will be slightly louder. If the MASTER VOLUME is set at a high level the sound may become distorted. If so, lower the MASTER VOLUME level.*

# The Pedals

The Clavinova has three foot pedals that produce a range of expressive effects similar to those produced by the pedals on an acoustic piano.




## Damper (Right) Pedal

The damper pedal functions in the same way as a damper pedal on an acoustic piano. When the damper pedal is pressed notes played have a long sustain. Releasing the pedal immediately stops (damps) any sustained notes.

When the GRAND PIANO 1 voice is selected on the CLP-950, pressing the damper pedal activates the instrument's special "Sustain Samples" to accurately recreate the unique resonance of an acoustic grand piano's soundboard and strings.

NOTE

- *On the CLP-950 the depth of the effect produced by the "Sustain Samples" can be adjusted via the "Pedal Functions" (page 32) in the function mode.*
- *If the damper pedal doesn't work, or notes are sustained even when the pedal is not pressed, make sure that the pedal cord is properly plugged into the main unit (page 58: CLP-930, page 50: CLP-950).*

## Sostenuto (Center) Pedal

If you play a note or chord on the keyboard and press the sostenuto pedal while the note(s) are held, those notes will be sustained as long as the pedal is held (as if the damper pedal had been pressed) but all subsequently played notes will not be sustained. This makes it possible to sustain a chord, for example, while other notes are played "staccato."

NOTE

- *Organ, string and choir voices will continue to sound for as long as the sostenuto pedal is depressed.*

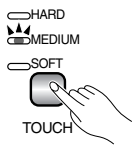
## Soft (Left) Pedal

The soft pedal reduces the volume and slightly changes the timbre of notes played while the pedal is pressed. The soft pedal will not affect notes which are already playing when it is pressed.

The left pedal can also be assigned to song start/stop operation via the "Left Pedal Mode" described on pages 31 (CLP-930) and 32 (CLP-950).

# Touch Sensitivity

Four different types of keyboard touch sensitivity — HARD, MEDIUM, SOFT or FIXED — can be selected to match different playing styles and preferences.




To select a touch sensitivity type press the **[TOUCH]** button a few times until the indicator corresponding to the desired type lights (the indicators light in sequence each time the **[TOUCH]** button is pressed).

**HARD**
The HARD setting requires the keys to be played quite hard to produce maximum loudness.

**MEDIUM**
The MEDIUM setting produces a fairly "standard" keyboard response. This is the initial factory default setting.

**SOFT**
The SOFT setting allows maximum loudness to be produced with relatively light key pressure.

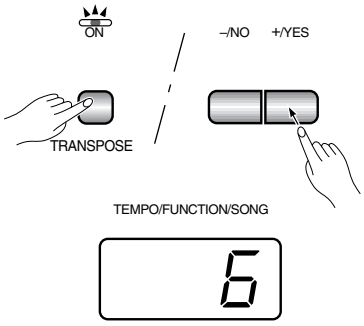
**FIXED** (no indicator lit)
All notes are produced at the same volume no matter how hard the keyboard is played.
When the FIXED type is selected, the volume of notes played in the FIXED mode can be set by using the [–/NO] and [+/YES] buttons while the [TOUCH] button is held (the current volume level appears on the display). The volume range is from 1 through 127. The default setting is 64.

NOTE

- *This setting does not change the weight of the keyboard.*
- *The touch sensitivity type and volume set in the FIXED mode will become the common setting for all voices. However, the touch sensitivity settings may have little or no effect with certain voices which are not normally responsive to keyboard dynamics (Refer to the "Voice Descriptions" on page 41).*

# Transposition

The Clavinova's TRANSPOSE function makes it possible to shift the pitch of the entire keyboard up or down in semitone intervals up to a maximum of 12 semitones (i.e. a maximum of one octave up or down). "Transposing" the pitch of the Clavinova keyboard facilitates playing in difficult key signatures, and you can easily match the pitch of the keyboard to the range of a singer or other instrumentalist.



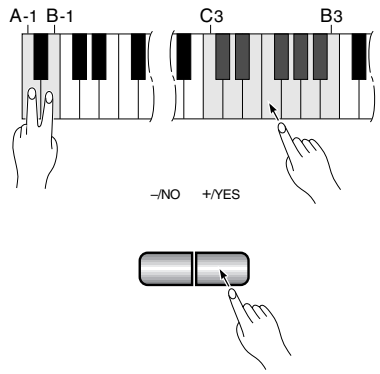

Use the **[–/NO]** or **[+/YES]** button while holding the **[TRANSPOSE]** button to transpose down or up as required. The transposition range is from "–12" (down one octave) through "0" (normal pitch) to "12" (up one octave). The amount of transposition appears on the LED display while the **[TRANSPOSE]** button is held. The default transpose setting is "0".

NOTE

- *The [TRANSPOSE] button indicator remains lit when a transpose setting other than "0" is selected.*
- *Notes below and above the A-1 … C7 range of the Clavinova sound one octave higher and lower, respectively.*

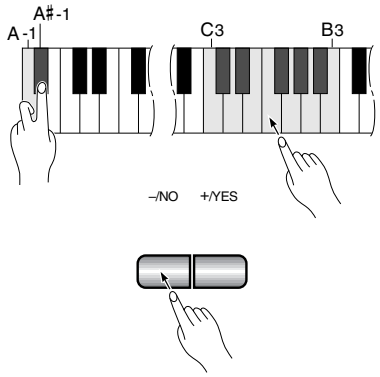
# Tuning

Tuning makes it possible to adjust the pitch of the Clavinova over a 427.0 Hz … 453.0 Hz (corresponding to the A3 note's Hz) range in approximately 0.2 Hertz intervals. Pitch control is useful for tuning the Clavinova to match other instruments or recorded music.



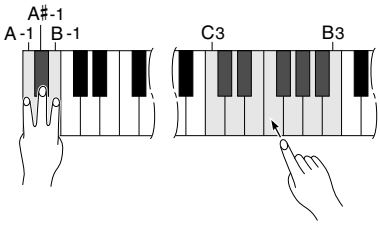

## Tuning Up

1. To tune up (raise pitch), hold the A-1 and B-1 keys simultaneously.
2. Press any key between C3 and B3. Each time a key in this range is pressed the pitch is increased by approximately 0.2 Hz.
   The **[–/NO]** and **[+/YES]** buttons can also be used to tune down or up, respectively, in approximately 1 Hz increments. Press the **[–/NO]** and **[+/YES]** buttons simultaneously to recall standard tuning (A3 = 440 Hz).
3. Release the A-1 and B-1 keys.




## Tuning Down

1. To tune down (lower pitch), hold the A-1 and A♯-1 keys simultaneously.
2. Press any key between C3 and B3. Each time a key in this range is pressed the pitch is decreased by approximately 0.2 Hz.
   The **[–/NO]** and **[+/YES]** buttons can also be used to tune down or up, respectively, in approximately 1 Hz increments. Press the **[–/NO]** and **[+/YES]** buttons simultaneously to recall standard tuning (A3 = 440 Hz).
3. Release the A-1 and A♯-1 keys.




## To Restore Standard Pitch

1. To restore the default pitch (A3 = 440 Hz), hold the A-1, A♯-1 and B-1 keys simultaneously.
2. Press any key between C3 and B3.
   (Pressing once will restore the keyboard to standard pitch, regardless of the amount of pitch adjustment.)
3. Release the A-1, A♯-1 and B-1 keys.

In terms of "Hertz", the overall tuning range is from 427.0 Hz to 453.0 Hz. The current tuning setting is shown on the LED display while the tuning is being adjusted. Tenths of a Hertz are indicated on the LED display by the appearance and position of one or two dots, as in the following example:

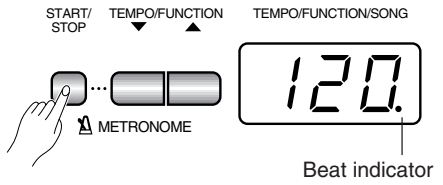
| Display | Value |
|---|---|
| 440 | 440.0 |
| 44.0 | 440.2 |
| 44.0 | 440.4 |
| 440. | 440.6 |
| 44.0. | 440.8 |

NOTE • *An alternative tuning method is available in the Function mode — page 28.*

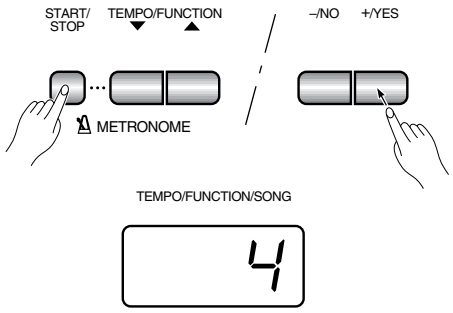
# The Metronome & Tempo Control

The Clavinova built-in metronome is a convenient feature for practice, and it can also provide a solid rhythmic guide when recording using the User Song Recorder feature, described in the next section.

## The Metronome




The metronome sound is alternately turned on and off by pressing the **METRONOME [START/STOP]** button. When on, the beat indicator flashes at the current tempo.



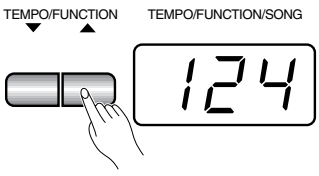

### Metronome Time Signature

The time signature (beat) of the metronome can be set by using the **[–/NO]** and **[+/YES]** buttons while holding the **METRONOME [START/STOP]** button. You can set the beat to 0, 2, 3, 4, 5 or 6 (the current setting appears on the LED display while the **METRONOME [START/STOP]** button is held). Press the **[–/NO]** and **[+/YES]** buttons simultaneously while holding the **METRONOME [START/STOP]** button to recall the default setting "0" (no accent).

### Metronome Volume Function

The volume of the metronome sound can be adjusted via the Metronome Volume function in the Function mode—page 32.

## Tempo Control




The tempo of the metronome and user song recorder playback (the recorder is described in the next section) can be set from 32 to 280 beats per minute by using the **[TEMPO/FUNCTION ▼, ▲]** buttons. The selected tempo will appear on the LED display while in the normal play mode and while the **[TEMPO/FUNCTION ▼, ▲]** buttons are being used to adjust the tempo in the recording/playback mode. The default tempo (120 or the recorded song tempo when the recorder contains data and the playback track indicator is lit) can be recalled by simultaneously pressing the **[▼]** and **[▲]** buttons.

# Using the User Song Recorder

The ability to record and play back what you've played on the Clavinova keyboard can be an effective practice aid. You can, for example, record just the left-hand part, and then practice the right-hand part while playing back the recorded left-hand part. Or, since you can record up to two tracks separately, you could record the left- and right-hand parts separately, or record both parts of a duet and hear how they sound when played back.

**The user song recorder actually records the following data:**

■ **Entire Song**

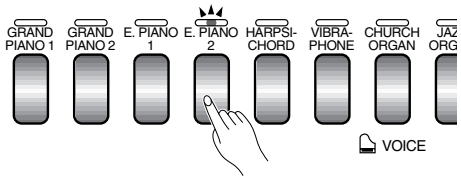
● Tempo ● Time signature (beat) ● Reverb type (including OFF) ● Effect type

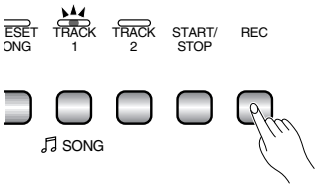
■ **Individual Tracks**

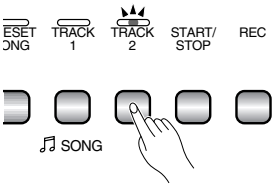
● Notes played ● Voice selection
● Dual mode voices ● Split mode voices (CLP-950)
● Damper pedal ● Soft pedal
● Sostenuto pedal (not recorded as an initial setting)
● Effect depth ● Reverb depth
● Dual balance (F3) ● Dual detune (F3) ● Dual octave shift (F3)
● Split balance (F4: CLP-950) ● Split octave shift (F4: CLP-950)

## Recording

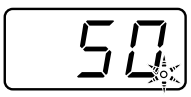
**CLP-950**




TEMPO/FUNCTION/SONG




### 1 Make All Necessary Initial Settings

Before actually beginning to record, select the voice you want to record with (or voices if you will be using the dual or split mode). You might also want to set the volume and tempo controls.

### 2 Engage the Record Ready Mode

Press the **[REC]** button to engage the record ready mode (recording does not actually start yet). The record ready mode can be disengaged before recording by pressing the **[REC]** button a second time.

NOTE

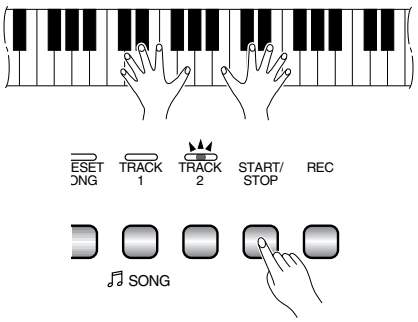
- *The record ready mode cannot be engaged while the demo/preset song mode is engaged.*

### 3 Select the Record Track

When the record mode is engaged in the previous step, the last-recorded track will automatically be selected for recording and its indicator — i.e. the **TRACK [1]** or **[2]** button indicator — will glow red. If you want to record on a different track, press the appropriate track button so that its indicator glows red.

NOTE

- *The track button indicators of tracks which contain previously recorded data will glow green (unless the track is turned off as described below). The previously-recorded data on the non-record track will normally be played back as you record, so you can play along with a previously-recorded track. If you don't want to hear the previously recorded track as you record (when you want to record a song different from what you recorded on the previous track etc.,), press the playback track button before pressing the [REC] button (step 1, above) so that its indicator goes out.*
- *Recording on a track which already contains data will erase all previous data on that track.*
- *When the record mode is engaged the amount of memory available for recording will be shown on the LED display in approximate kilobytes (starting at "50"), and the rightmost dot on the LED display will flash at the current METRONOME tempo setting.*

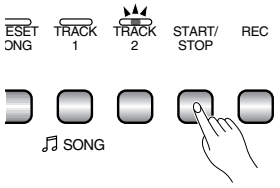



## 4 Start Recording

Recording will begin automatically as soon as you play a note on the keyboard or press the **SONG [START/STOP]** button. The current measure number will appear on the display while recording.

NOTE

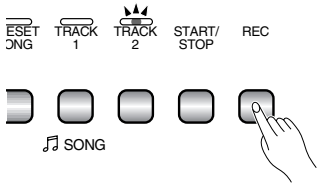
- *The left pedal can be assigned to start and stop recording via the "Left Pedal Mode" function described on pages 31 (CLP-930) and 32 (CLP-950).*
- *If the metronome was on when you started recording, you'll be able to keep time with the metronome while recording, but the metronome sound will not be recorded.*
- *You can record up to a maximum of about 10,000 notes on the Clavinova, depending on pedal usage and other factors. The record track indicator will begin to flash when recorder memory is almost full. If the memory becomes full during recording, "FUL" will appear on the display and recording will stop automatically. (All recorded data up to that point will be retained.)*




## 5 Stop Recording

Press either the **[REC]** or **SONG [START/STOP]** button to stop recording.

The indicator of the recorded track will glow green to indicate that it now contains data.




## Changing the Initial Settings

The initial voice, tempo, reverb type, reverb depth, and effect settings made in step 1 of the recording procedure are actually recorded by the Clavinova.

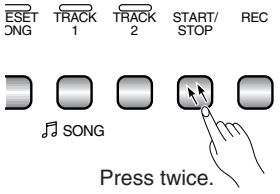
These initial settings can be changed after the recording is finished by pressing the **[REC]** button to engage the record ready mode, pressing the appropriate track button, making the required changes, and then pressing the **[REC]** button again to exit from the record ready mode and register the changes.

If you do this, be careful not to press the **SONG [START/STOP]** button or a key on the keyboard, either of which will start recording and erase all previous recorded data on the selected track.

It is possible to cancel the operation even after changes have been made: change tracks and then press the **[REC]** button to exit from the record mode (this also cancels data for the entire song).

NOTE

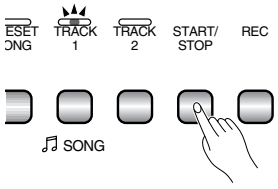
- *The following data for initial settings cannot be changed: "Dual balance (F3)", "Dual detune (F3)", "Dual octave shift (F3)", "Split balance (F4:CLP-950)" or "Split octave shift (F4:CLP-950)".*




## Erasing a Single Track

All data can be erased from either of the recorder's tracks by engaging the record mode, selecting the track you want to erase, and then pressing the **SONG [START/STOP]** button twice without recording any data.

# Playback



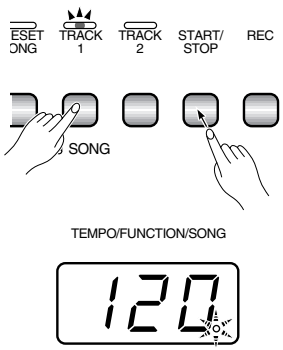

To play back what you've recorded, first make sure that the green track indicators of the tracks you want to play are lit. If not, press the corresponding track button(s) so that they are lit. Then press the **SONG [START/STOP]** button. Playback starts from the beginning of the recorded data, and will stop automatically at the end of the recorded data. You can also stop playback at any time by pressing the **SONG [START/STOP]** button.

To mute a track so that it doesn't play back, press the corresponding track button so that its indicator goes out (press again to turn the track back on).

The current measure number appears on the display during playback.

NOTE

- *It is possible to play along on the keyboard during playback. In this case, the playback voice and the voice you play on the keyboard are not the same. The playback voice is the voice that was set when the data was recorded. The voice you play on the keyboard is the voice that is selected on the panel.*
- *The playback volume and tempo can be adjusted by using the [MASTER VOLUME] control and [TEMPO/FUNCTION ▼, ▲] buttons (press both [TEMPO/FUNCTION ▼, ▲] buttons simultaneously to recall the default tempo).*
- *All user song recorder data will be retained in memory for about one week after the power is turned off. If you want to keep your recorded data for longer periods, turn the power on for a few minutes at least once a week. It is also possible to store it to an external MIDI storage device such as the Yamaha MIDI Data Filer MDF3 by using the Bulk Data Dump function described on page 35.*
- *The track indicators will not light automatically when the power is turned on even if the user song recorder contains data. It is therefore necessary to press the track buttons so that the corresponding green indicators light before starting recorder playback. It is also a good idea to press the track buttons to check if the tracks contain data before recording. If the green indicator lights when the corresponding track button is pressed, that track contains data which will be erased and replaced by the newly-recorded data.*
- *If the metronome is being used during playback, the metronome will automatically stop when playback is stopped.*
- *During recorder playback, the volume of a track which is turned off will always be "0" (i.e. the "Preset Song Part Cancel Volume" function — page 32 — only affects preset song playback.*
- *The playback data is not transmitted via the MIDI OUT connector.*
- *Playback cannot be started when the demo/preset song mode is engaged.*
- *Playback cannot be started when the recorder contains no data, or when both track buttons are off.*
- *If the REVERB type is changed via the panel controls during playback, both the playback and keyboard reverb effects will be changed.*
- *If the EFFECT type is changed via the panel controls during playback, the playback effect may be switched off in some cases.*




## Synchro Start

When the Synchro Start function is engaged, recorder playback will begin automatically as soon as you start playing on the keyboard.

To engage the Synchro Start function press the **SONG [START/STOP]** button while holding a track button which is ON. The rightmost dot on the display will flash at the current tempo. (Repeat the previous operation to disengage the Syncro Start function.) Playback will then start as soon as you begin playing on the keyboard.

If you hold a track button which is OFF while pressing the **SONG [START/STOP]** button, that track will be turned ON and the Synchro Start mode will be engaged.

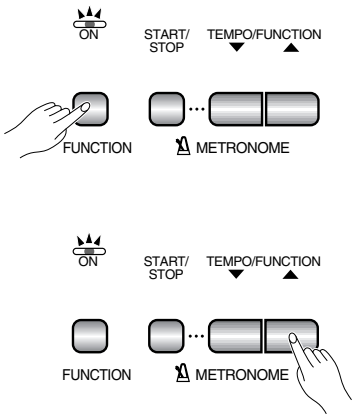
## Left Pedal Start/Stop

The left pedal can be assigned to start and stop recorder playback via the "Left Pedal Mode" function described on pages 31 (CLP-930) and 32 (CLP-950). This is convenient for starting playback of the recorded part anytime after you have started playing.

# The Function Mode

The **[FUNCTION]** button provides access to a range of functions that give the Clavinova extraordinary versatility. The functions are categorized in groups as follows:


| CLP-930 | CLP-950 | | |
|---|---|---|---|
| F1 | F1 | **Tuning** | 28 |
| F2 | F2 | **Scale** | 28 |
| F3 | F3 | **Dual Mode Functions** | 29 |
| – | F4 | **Split Mode Functions** | 30 |
| F4 | – | **Left Pedal Mode** | 31 |
| – | F5 | **Pedal Functions** | 32 |
| F5 | F6 | **Metronome Volume** | 32 |
| F6 | F7 | **Preset Song Part Cancel Volume** | 32 |
| F7 | F8 | **MIDI Functions** | 33 |
| F8 | F9 | **Backup Functions** | 36 |


## To Select a Function …

**1** Press the **[FUNCTION]** button so that its indicator lights.

NOTE
- *Functions cannot be selected during demo/preset song playback or when the user song recorder is in operation.*

**2** Use the **[TEMPO/FUNCTION ▼, ▲]** buttons to select the desired function: F1 through F8 on the CLP-930; F1 through F9 on the CLP-950.

**3** In the case of the Scale (F2), Dual Mode (F3), Split Mode (F4: CLP-950), Pedal Functions (F5: CLP-950), MIDI (F7: CLP-930, F8: CLP-950), and Backup (F8: CLP-930, F9: CLP-950) functions, you will have to press the **[+/YES]** button once to enter the respective sub-mode after the function has been selected, and then use the **[TEMPO/FUNCTION ▼, ▲]** buttons again to select the desired sub-function.

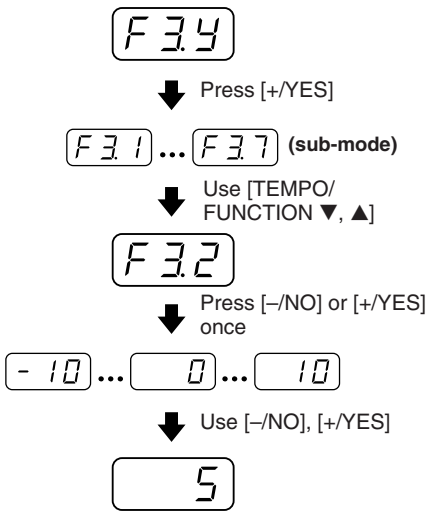
NOTE
- *The Dual or Split (CLP-950) mode must be engaged before the F3 and F4 functions can be selected, respectively. If the corresponding mode is not engaged, "F3-" or "F4-" will appear on the display and the corresponding sub-mode will not be available.*
- *The Dual mode can be engaged while in the Function mode, but the Function mode must be exited before the Split mode (CLP-950) can be engaged.*

**4** Set the function as required by using the **[–/NO]** and **[+/YES]** buttons (see the individual function descriptions, below).

NOTE
- *After selecting the function, the current setting will be displayed when the [–/NO] or [+/YES] button is pressed for the first time.*

**5** Press the **[FUNCTION]** button so that its indicator goes out to exit from the function mode.

### ● Operation Example



# F1 Tuning

In addition to the tuning method described on page 22, overall tuning can also be accomplished via the F1 function.

After selecting "F1", use the **[–/NO]** and **[+/YES]** buttons to lower or raise the pitch in approximately 0.2 Hz increments (the first time the **[–/NO]** or **[+/YES]** button is pressed simply switches to the tuning value display without actually changing the tuning). The overall tuning range is from 427.0 Hz to 453.0 Hz (corresponding to the A3 note's Hz). Press the **[–/NO]** and **[+/YES]** buttons simultaneously to recall the default value "440 Hz".

Tenths of a Hertz are indicated on the LED display by the appearance and position of one or two dots, as in the following example:

| Display | Value |
|---|---|
| 440 | 440.0 |
| 4.40 | 440.2 |
| 44.0 | 440.4 |
| 440. | 440.6 |
| 4.40. | 440.8 |

# F2 Scale

After selecting "F2.1", press the **[+/YES]** button to engage the scale function sub-mode, then use the **[TEMPO/FUNCTION ▼, ▲]** buttons to select the desired scale function, as listed below.

## F2.1: Scale

In addition to the standard Equal Temperament tuning, the Clavinova includes 6 classic tunings that you can select and use to play music of the corresponding period, or experiment with in a more modern context. The tunings are:

1: Equal Temperament
2: Pure Major
3: Pure Minor
4: Pythagorean
5: Mean Tone
6: Werckmeister
7: Kirnberger

Use the **[–/NO]** and **[+/YES]** buttons to select the number of the desired tuning. Press the **[–/NO]** and **[+/YES]** buttons simultaneously to recall the default settings (Equal Temperament tuning).

## F2.2: Base Note

Unlike Equal Temperament tuning, these classic tunings must be tuned to a specific key. Use the **[–/NO]** and **[+/YES]** buttons to select the key you want the previously selected tuning to be based. The selected key will appear on the display, followed by a low bar if flat (e.g. "A_ ") or a high bar if sharp (e.g. "F ¯ ").

Press the **[–/NO]** and **[+/YES]** buttons simultaneously to recall the default settings "C".

NOTE • *The base note setting is effective for tunings other than the Equal Temperament tuning.*

# F3 Dual Mode Functions

After selecting "F 3.Y", press the **[+/YES]** button to engage the dual-mode function sub-mode, then use the **[TEMPO/FUNCTION ▼, ▲]** buttons to select the desired dual mode function, as listed below.

If the Dual mode is not engaged "F 3.-" will appear instead of "F 3.Y" and the Dual mode functions cannot be selected. If this happens engage the Dual mode and proceed.

■ **SHORTCUT:** You can jump directly to the dual-mode functions (F3) by pressing the **[FUNCTION]** button while holding the two dual-mode voice selectors.

NOTE • *Dual mode function settings are set individually for each voice combination.*

## F3.1: Dual Balance

The volume levels of the two voices combined in the dual mode can be adjusted as required by using this function. Use the **[–/NO]** and **[+/YES]** buttons to adjust the balance as required. The balance range is from 0 through 20. A setting of "10" produces equal balance between the two dual-mode voices. Settings below "10" increase the volume of the 2nd Voice in relation to the 1st Voice, and settings above "10" increase the volume of the 1st Voice in relation to the 2nd Voice ("1st" and "2nd" is explained on page 16). Press the **[–/NO]** and **[+/YES]** buttons simultaneously to recall the default setting (different for each voice combination).

You can set one voice as the main voice, and another voice as a softer, mixed voice.

## F3.2: Dual Detune

This function makes it possible to detune the 1st and 2nd dual-mode Voices to create a thicker sound. Use the **[–/NO]** and **[+/YES]** buttons to set the amount of detuning as required. The detune range is from –10 through 10. A setting of "0" sets both voices to the same pitch. "+" values raise the pitch of the 1st voice while lowering the pitch of the 2nd voice, and "-" values raise the pitch of the 2nd voice while lowering the pitch of the 1st voice. ("1st" and "2nd" is explained on page 16). Press the **[–/NO]** and **[+/YES]** buttons simultaneously to recall the default setting (different for each voice combination).

NOTE • *The maximum amount of pitch variation increases toward the lower key range (±60 cents at the A-1 key), and decreases toward the higher key range (±5 cents at the C7 key). 100 cents = 1 semitone.*

## F3.3: 1st Voice Octave Shift

## F3.4: 2nd Voice Octave Shift

Depending on which voices you combine using the dual mode, the combination may sound better if one of the voices is shifted up or down an octave. Use the **[–/NO]** and **[+/YES]** buttons to set the octave of the 1st or 2nd Voice as required ("1st" and "2nd" is explained on page 16). The available settings are "0" for normal pitch, "–1" to shift the pitch down one octave, and "1" to shift the pitch up one octave. Press the **[–/NO]** and **[+/YES]** buttons simultaneously to recall the default setting (different for each voice combination).

### F3.5: 1st Voice Effect Depth

### F3.6: 2nd Voice Effect Depth

These functions make it possible to individually set the depth of the effect for the 1st and 2nd dual-mode Voices ("1st" and "2nd" is explained on page 16). Use the **[–/NO]** and **[+/YES]** buttons to set the effect depth for the corresponding voice as required. The depth range is from 0 through 20. A setting of "0" produces no effect, while a setting of "20" produces maximum effect depth. Press the **[–/NO]** and **[+/YES]** buttons simultaneously to recall the default setting (different for each voice combination).

NOTE • *The effect depth settings cannot be changed unless the EFFECT is ON. The Function mode must be exited before EFFECT can be turned ON.*

### F3.7: Reset

This function resets all dual-mode functions to their default values. Press the **[+/YES]** button to reset the values. "End" will appear on the display when all functions have been reset.

## F4 CLP-950 Split Mode Functions

After selecting "F4.4", press the **[+/YES]** button to engage the split-mode function sub-mode, then use the **[TEMPO/FUNCTION ▼, ▲]** buttons to select the desired split mode function, as listed below.

If the Split mode is not engaged "F4.-" will appear instead of "F4.4" and the Split mode functions cannot be selected. Also note that you must exit from the Function mode before the Split mode can be engaged.

■ **SHORTCUT:** You can jump directly to the split-mode functions (F4) by pressing the **[FUNCTION]** button while holding the **[SPLIT]** button.

NOTE • *Split mode function settings are set individually for each voice combination.*

### F4.1: Split Point

In addition to the split point setting method described on page 17, the split point can be set via this function. Use the **[–/NO]** and **[+/YES]** buttons to set the split point as required, or simply press the appropriate key on the keyboard: from "A-1" to "C7". Press the **[–/NO]** and **[+/YES]** buttons simultaneously to recall the default setting "F♯2".

### F4.2: Split Balance

The volume levels of the two voices combined in the split mode can be adjusted as required by using this function. Use the **[–/NO]** and **[+/YES]** buttons to adjust the balance as required. The balance range is from 0 through 20. A setting of "10" produces equal balance between the two split-mode voices. Settings below "10" increase the volume of the Left Voice in relation to the Right Voice, and settings above "10" increase the volume of the Right Voice in relation to the Left Voice. Press the **[–/NO]** and **[+/YES]** buttons simultaneously to recall the default setting (different for each voice combination).

### F4.3: Right Voice Octave Shift

### F4.4: Left Voice Octave Shift

Depending on which voices you combine using the split mode, the combination may sound better if one of the voices is shifted up or down an octave. Use the **[–/NO]** and **[+/YES]** buttons to set the octave of the Left or Right Voice as required. The available settings are "0" for normal pitch, "–1" to shift the pitch down one octave, and "1" to shift the pitch up one octave. Press the **[–/NO]** and **[+/YES]** buttons simultaneously to recall the default setting (different for each voice combination).

Set according to the pitch extent for the song you want to play.

### F4.5: Right Voice Effect Depth

### F4.6: Left Voice Effect Depth

These functions make it possible to individually set the depth of the effect for the Left and Right split-mode Voices. Use the **[–/NO]** and **[+/YES]** buttons to set the effect depth for the corresponding voice as required. The depth range is from 0 through 20. A setting of "0" produces no effect, while a setting of "20" produces maximum effect depth. Press the **[–/NO]** and **[+/YES]** buttons simultaneously to recall the default setting (different for each voice combination).

NOTE • *The effect depth settings cannot be changed unless the EFFECT is ON. The Function mode must be exited before EFFECT can be turned ON.*

### F4.7: Damper Range

The Damper Range function determines whether the damper pedal affects the Right Voice, the Left Voice, or both the Left and Right Voices in the split mode. Use the **[–/NO]** and **[+/YES]** buttons to select "2" for the Left Voice, "1" for the Right Voice, or "ALL" for both voices. Press the **[–/NO]** and **[+/YES]** buttons simultaneously to recall the default setting "ALL".

### F4.8: Reset

This function resets all split-mode functions to their default values. Press the **[+/YES]** button to reset the values. "End" will appear on the display when all functions have been reset.

## F4 CLP-930 Left Pedal Mode

This function sets the left pedal for normal soft-pedal operation or for song start/stop operation. Use the **[–/NO]** and **[+/YES]** buttons to select the desired left-pedal mode. "1" is the normal soft-pedal mode, and "2" is the start/stop mode. When the start/stop mode is selected, the left pedal functions in the same way as the panel **SONG [START/STOP]** button. Press the
**[–/NO]** and **[+/YES]** buttons simultaneously to recall the default setting "1".

## F5 CLP-950 Pedal Functions

After selecting "F5.1", press the **[+/YES]** button to engage the pedal functions sub-mode, then use the **[TEMPO/FUNCTION ▼, ▲]** buttons to select the desired pedal functions, as listed below.

### F5.1: Left Pedal Mode

This function conveniently lets you set the left pedal for normal soft pedal operation, or for song start/stop operation. Use the **[–/NO]** and **[+/YES]** buttons to select the desired left-pedal mode. Press the **[–/NO]** and **[+/YES]** buttons simultaneously to recall the default setting "1".

| | |
|---|---|
| 1: Soft | The left pedal functions as the soft pedal. |
| 2: Start/Stop | The left pedal functions in the same manner as the SONG [START/STOP] button. |

### F5.2: Sustain Sample Depth

The CLP-950 GRAND PIANO 1 voice features special "Sustain Samples" which recreate the unique resonance of an acoustic grand piano's soundboard and strings when the damper pedal is pressed. This function lets you adjust the depth of this effect. Use the **[–/NO]** and **[+/YES]** buttons to set the effect depth as required. The effect depth range is from 0 through 20. A setting of "0" produces no effect, while a setting of "20" produces maximum effect depth. Press the **[–/NO]** and **[+/YES]** buttons simultaneously to recall the default setting "12".

## F5 CLP-930 Metronome Volume
## F6 CLP-950 Metronome Volume

■ **SHORTCUT:** You can jump directly to the metronome functions by pressing the **[FUNCTION]** button while holding the **METRONOME [START/STOP]** button.

The volume of the metronome sound can be changed. After selecting "F5" or "F6", use the **[–/NO]** and **[+/YES]** buttons to set the metronome volume as required. The volume range is from 1 through 20. A setting of "1" produces minimum sound, while a setting of "20" produces maximum metronome volume. Press the **[–/NO]** and **[+/YES]** buttons simultaneously to recall the default setting "10".

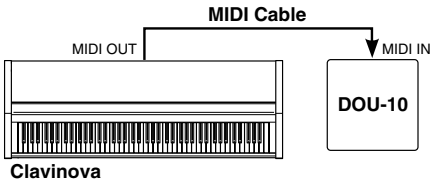
## F6 CLP-930 Preset Song Part Cancel Volume
## F7 CLP-950 Preset Song Part Cancel Volume

This function sets the volume at which a "canceled" part is played during preset song playback (see page 15 for information on the "part-cancel" function). Use the **[–/NO]** and **[+/YES]** buttons to set the volume as required. The volume range is from 0 through 20. A setting of "0" produces no sound, while a setting of "20" produces maximum volume. Press the **[–/NO]** and **[+/YES]** buttons simultaneously to recall the default setting "5".

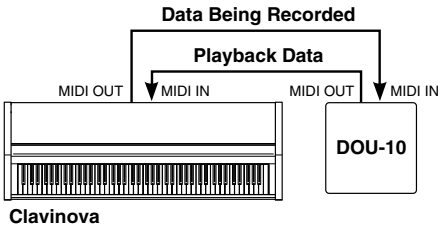
Adjust the part volume to a comfortable level to use the "canceled" part as a guide to play along with. Set to "0" if you don't want to hear the part.

# F7 CLP-930 MIDI Functions
# F8 CLP-950 MIDI Functions

## ● A Brief Introduction to MIDI




MIDI, the Musical Instrument Digital Interface, is a world-standard communication interface that allows MIDI-compatible musical instruments and equipment to share musical information and control one another. This makes it possible to create "systems" of MIDI instruments and equipment that offer far greater versatility and control than is available with isolated instruments. For example, most MIDI keyboards (including the Clavinova, of course) transmit note and velocity (touch response) information via the MIDI OUT connector whenever a note is played on the keyboard. If the MIDI OUT connector is connected to the MIDI IN connector of a second keyboard (synthesizer, etc.) or a tone generator (essentially a synthesizer with no keyboard), the second keyboard or tone generator will respond precisely to notes played on the original transmitting keyboard. The result is that you can effectively play two instruments at once, providing thick multi-instrument sounds.




This same type of musical information transfer is used for MIDI sequence recording. A sequence recorder can be used to "record" MIDI data received from a Clavinova, for example. When the recorded data is played back, the Clavinova automatically "plays" the recorded performance in precise detail.

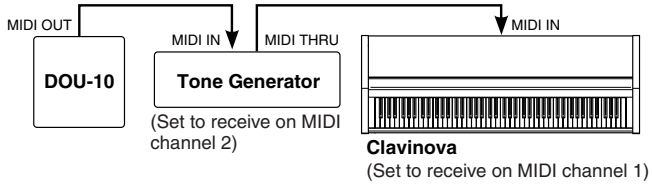
The examples given above really only scratch the surface. MIDI can do much, much more. The Clavinova MIDI functions allow it to be used in fairly sophisticated MIDI systems.

After selecting "F 7.1" or "F8.1", press the **[+/YES]** button to engage the MIDI function sub-mode, then use the **[TEMPO/FUNCTION ▼, ▲]** buttons to select the desired MIDI function, as listed below.

NOTE

- *The bottom-panel HOST SELECT switch must be set to "MIDI" in order to use the MIDI connectors. When you use the TO HOST connector, set the HOST SELECT switch to the appropriate position for the type of computer you are using (see page 37). In this situation, all MIDI settings described below will have affect on the MIDI signal in and out of the TO HOST connector.*
- *Always use a high-quality MIDI cable to connect MIDI OUT to MIDI IN terminals. Never use MIDI cables longer than about 15 meters, since cables longer than this can pick up noise which can cause data errors.*

### F7.1/F8.1: MIDI Transmit Channel Selection
### F7.2/F8.2: MIDI Receive Channel Selection




The MIDI system allows transmission and reception of MIDI data on 16 different channels. Multiple channels have been implemented to allow selective control of certain instruments or devices connected in series. For example, a single MIDI sequence recorder could be used to "play" two different instruments or tone generators. One of the instruments or tone generators could be set to receive only on channel 1, while the other is set to receive on channel 2. In this situation the first instrument or tone generator will respond only to channel-1 information transmitted by the sequence recorder, while the second instrument or tone generator will respond only to channel-2 information. This allows the sequence recorder to "play" two completely different parts on the receiving instruments or tone generators.