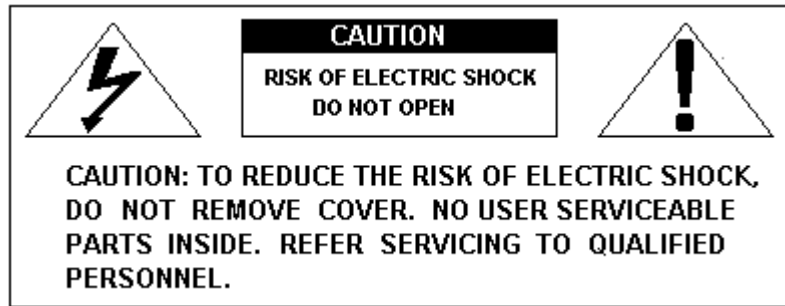


SAMICK
D I G I T A L

SSP12

SAFETY PRECAUTIONS AND INSTRUCTIONS



WARNING

Make sure that the voltage set is suitable for the instrument (the voltage is indicated next to the power inlet).

When using electric products, always follow basic precautions, including the following:

- 1 Read all of these instructions before using the product.
- 2 To reduce the risk of injury, close supervision is necessary when the product is used near children.
- 3 Do not use this product near water - for example, near a bathtub, washbowl, kitchen sink, in a wet basement, near a swimming pool, or the like.
- 4 This product, either alone or in combination with an amplifier and headphones, or speakers may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level, or at a level that is uncomfortable. If you experience any hearing loss, or ringing in your ears, you should consult an audiologist.
- 5 The product should be located so that its location, or position, does not interfere with proper ventilation.
- 6 This product should only be located away from heat sources such as radiators, heat registers, and other products that cause heat.
- 7 The product should be connected only to the type of power supply described in the operating instructions, or as marked on the product.
- 8 This product may be equipped with a polarised plug. This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician to replace your obsolete outlet. Do not defeat the safety purpose of the plug.
- 9 The power-supply cord of the product should be unplugged from the outlet when left unused for a long period of time. When re-plugging unit, turn on the instrument and leave on for 3-5 hours to recharge internal battery. The battery may need to be replaced after two or three years of use.
- 10 Care should be taken so that objects do not fall, and liquids are not spilled, into the cabinet through openings.
- 11 The product should be serviced by qualified personnel when:
 - a The power-supply cord or the plug has been damaged; or
 - b Objects have fallen, or liquid has been spilled, into the product, or
 - c The product has been exposed to rain, or
 - d The product does not appear to operate normally, or exhibits a marked change in performance, or
 - e The product has been dropped, or the cabinet damaged
- 12 Do not attempt to service the product beyond that described in the maintenance instructions. All other servicing should be referred to qualified service personnel.

GROUNDING INSTRUCTIONS

This product must be grounded (earthed). In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This product is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with the local codes and regulations.

DANGER

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

TEMPO / VALUE DISPLAY

The messages contained in the Display may not always match the display pages They are merely examples of the many features of the product.

DISCLAIMER

The information contained in this manual has been very carefully revised. Due to the constant effort to improve the product, the product specifications might differ to those in the manual. The specifications are subject to modification without prior notice.

TAKING CARE OF YOUR INSTRUMENT

Your instrument is a fine instrument and deserves careful treatment.

Follow carefully the next few points, to keep it at it's best for many years.

- Never open the case and touch the internal circuits.
- Always switch the power Off after use.
- Use a cloth or a damp sponge. If the dirt is particularly persistent, use a neutral detergent to remove it. Never use solvents or alcohol.
- Do not place your instrument near electric motors, neon or fluorescent lamps as these may generate disturbances.
- In most cases you just need to change the position of the instrument to avoid interference.
- Keep your instrument away from dusty environments, high humidity, and high temperatures.
- Do not use on the same AC outlet with electrical appliances, neon lights or variable lighting system.
- Before turning on the instrument, make sure that any external amplifier and speaker system that you have connected to your instrument are turned off.
- Computer controlled instruments can be interrupted by spikes, surges and dropouts on the power line. If your instrument stops working because of a power line disturbance, switch it off for a few seconds and then switch it on again.
- Never disconnect the power cable without turning the power switch off.

SSP12 Piano /Organ



The SSP12 is a unique product that incorporates the sounds and the features of two separate worlds but incorporated into a single instrument.

The SSP12 is in fact different from any other piano keyboard products available in the market and it was designed to meet the many requests of modern piano and pipe organ players.

At power up the instrument is set to play a very nice selection of Pipe Organ sounds, ranging from Pianissimo to Fortissimo, that will guarantee the best sound for any type of classical or church music including the possibility to play different sounds for the right and left part of the keyboard including a selection of Bass sounds.

The instrument offers the hammer keyboard action typical of today portable digital pianos and there is a wide selection of Acoustic and Electric Pianos in the instrument internal sound library. Also available in the internal sound bank a very large library of electronic and theatre organ samples that will ensure the best organ sound for pop and gospel music.

POWER SUPPLY

Plug the DC output cable from the power adapter into DC IN jack in the rear panel of your instrument, then plug the AC cable of your power adapter into a convenient wall AC power socket. Turn on the instrument by pressing the POWER ON/OFF switch located in the back panel. Set the MASTER VOLUME to the desired level. The MASTER VOLUME controls the overall volume for the entire instrument.

USING HEADPHONES OR AN EXTERNAL SOUND SYSTEM

A standard stereo headphone can be plugged into the PHONES socket for private practice or late-night playing. The internal speaker system is automatically switched off, when the headphone is plugged into the PHONE socket. There are two sockets available in the rear panel and allow the use of two headphone at the same time.

The LINE OUT (Left and Right) sockets can be used to deliver the output of the sound to an external amplifier, stereo sound system, mixing console or tape recorder.

SUSTAIN PEDAL (supplied)

The SSP12 is supplied with a Sustain pedal.



Connect it to the Pedal Input number 2 to obtain the Sustain effect when used. It has the same function as the "sustain" pedal on the piano.

It provides sustain and lets the sound slowly decay after the keys have been released.

SOFT/SOSTENUTO/SUSTAIN PEDAL (optional)

If necessary the SSP12 can be used with an optional 3 Pedals pedal board .

Insert the mono jack to the Pedal Input number 1 and the stereo jack in the Pedal Input 2.



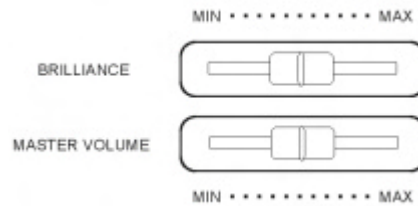
The instrument works now with a set of three pedals giving the following functions:

SOFT: gives the piano voices a "softer" sound.

SOSTENUTO: this allows only the notes pressed on the keyboard before the Sostenuto pedal is activated to sustain and no subsequent notes played afterwards.

SUSTAIN: has the same function as the "sustain" pedal on the piano. It provides sustain and lets the sound slowly decay after the keys have been released.

SLIDER CONTROLS

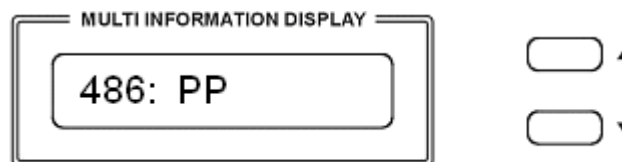


The Master Volume slider controls the overall volume of the instrument. It control the volume also when connected to an headphone set. Moving the slider to the right it will make the sound lauder, moving it to the left it will make the sound softer.

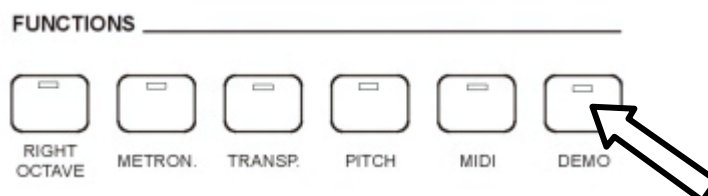
The Brilliance Control slider control adjusts the brightness of the sound. Moving the slider to the right it will make the sound brighter , moving it to the left it will make the sound mellower .

PANEL DISPLAY INDICATIONS

Your instrument features a large multi-function display (INFORMATION DISPLAY) that shows all the important settings for the instrument. At power up it shows:



DEMO SONGS



There are several demo songs in the internal memory. Listen to the pre-programmed demonstration songs and they will give you a good idea of what the instrument can do.

- With the Power ON and Set the Master Volume at half way.
- Press the [DEMO] to activate the DEMO function. The name of the selected DEMO will appear on the INFORMATION DISPLAY. You can select the demo songs by using the [^][v] buttons.
- Press [DEMO] button again to stop the DEMO song.

SELECTING AND PLAYING THE VOICES

Your instrument has 476 sounds in the internal sound library numbered from 01 to 476, and 8 Drum Kits numbered from 477 to 484. Sound 485 is the SOUND EFFECT bank preset.

There is a special bank of organ sounds and this is listed from 486 to 495 and these are all PIPE ORGAN sounds. The total number of the available sounds in the SSP12 is 495 sounds.

The available sounds can be played in three different modes: Right 1, Right 2 and Left.

Right 1 - plays a single voice over the entire range of the keyboard.

Right 2 - mixes two different voices together (Layers) for rich, complex sounds.

Left - allows the player to select a Left sound and/or a Bass sound for the Left part and up to two sounds for the Right part of the keyboard.

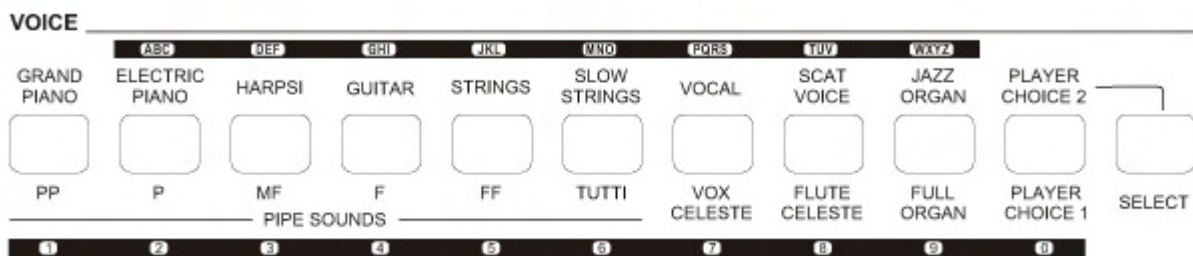
The complete list of the available Sounds is available in the SOUND LIST pages at the end of this manual.

The first 128 sounds are listed according to the GM sound list from 1 to 128. From 129 to 476 the sounds are listed according to the ENHANCED XM Sound List that incorporates all the GM sounds plus all sound variations.

In GM mode the instrument allows the player to select the sounds according to the GM mapping and most of the players remember the sound numbers and therefore may be easier for them.

In the XM mode the complete sound list is available including not only all the GM sounds but also the many sound variations specially developed by the musicians team.

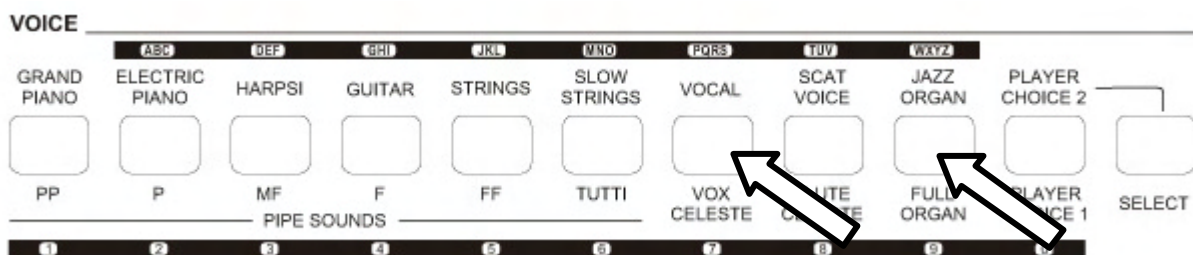
VOICE SECTION



To select the sounds listed below the sound buttons make sure that the SELECT button is switched Off. To select the sounds listed above the sound buttons make sure that the SELECT button is switched On.

It is also possible to play two sounds at the same time, for example VOX CELESTE and FULL ORGAN.

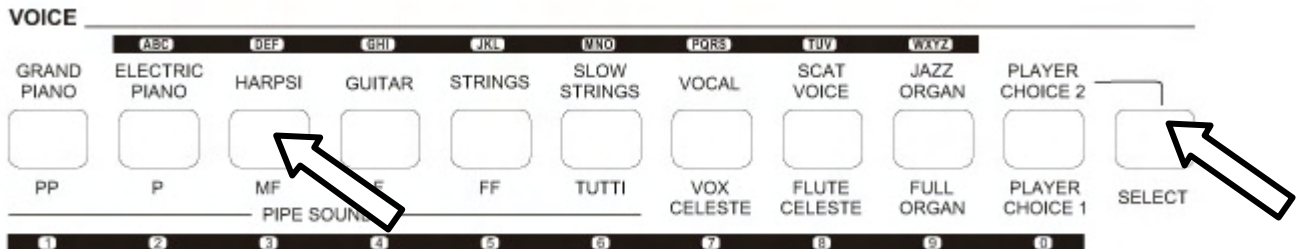
- To select the VOICE CELSTE sound press and hold the related button.
- While holding down the VOICE CELESTE button also press the FULL ORGAN button.



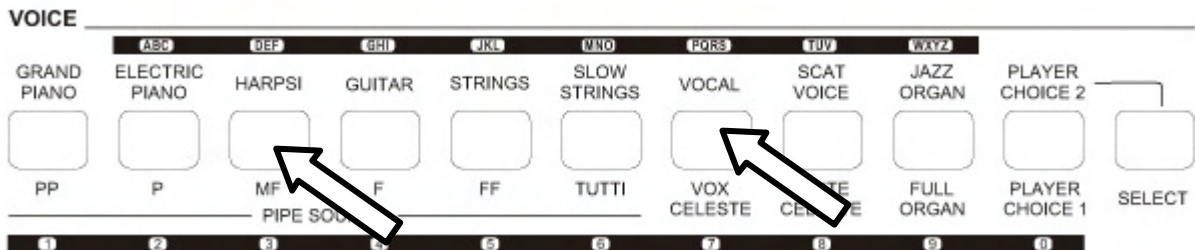
- The two sounds are now selected and they can be played at the same time.
The VOICE CELESTE sound is considered to be the MAIN sound and will be played at full volume.

It is also possible to play two sounds at the same time, selecting them from the top and the bottom row, for example MF (Mezzo Forte) and VOCALS.

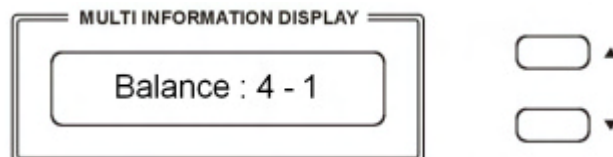
- To select the MF sound press and hold the related button.
- While holding down the MF button also press the SELECT button to select the upper row.



- Release now the SELECT button and while holding the MF button press the VOICE button .



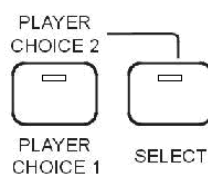
- The two sounds are now selected and they can be played at the same time.
It is possible to change the balance using the [^] and [v] buttons.



The Value 4 refers to the STAGE ELECTRIC volume and the value 1 refers to the PAD sound. Use the [^] and [v] buttons it is possible to balance the two sounds according to the following table.

4 - 1	4 - 2	4 - 3	4 - 4	3 - 4	2 - 4	1 - 4
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PLAYER CHOICE

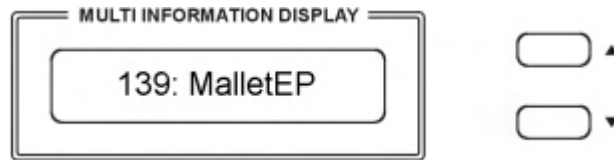


In this two buttons it is possible to load any of the internal sounds available in the instrument.

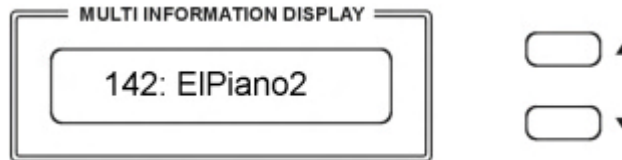
If the SELECT button Led is Off you can select PLAYER CHOICE 1. If the SELECT button Led is On you can select PLAYER CHOICE 2.

How to select a new Player Choice sound:

- Press and hold the PLAYER CHOICE 1 button until the display shows:



- Use the [^] and [v] buttons it is possible to change the sound while its number is blinking with any one of the available sounds in the Voice List of the instrument. It is of course possible to directly digit the number of the new desired sound using the numeric keypad buttons.
- To select a new Player Choice 2 sound press the SELECT button On and press and hold the PLAYER CHOICE 2 button until the display shows:

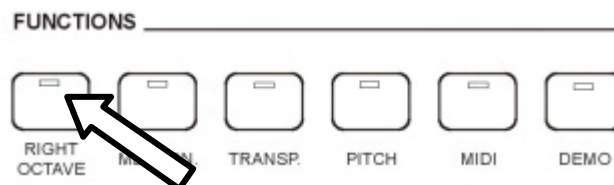


- Use the [^] and [v] buttons it is possible to change the sound while its number is blinking with any one of the available sounds in the Voice List of the instrument. It is of course possible to directly digit the number of the new desired sound using the numeric keypad buttons.

NOTE: It is possible to save the new programmed Player Choice sounds in the OVERALL PRESET memories.

RIGHT OCTAVE

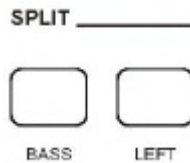
This function is setting the piano sound 1 octave lower.



When the piano is playing two sounds at the same time in Layer mode both sounds will be played 1 Octave lower.

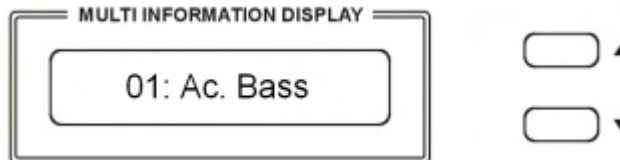
If the piano is playing in SPLIT mode, only the sounds of the right section will be played 1 Octave lower.

SPLIT - BASS SOUND



When the BASS button is pressed the instrument automatically splits the keyboard in two parts and a BASS sound is automatically selected. It is also possible to change the Bass sound.

- Press and hold the BASS button. The display will show the automatically selected bass sound, for example:

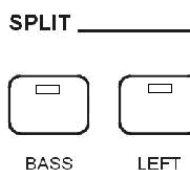


Use the [^][v] buttons to select the new bass sound from the following list:

1:	Acoustic Bass
2:	Acoustic Bass + Ride
3:	Big Bass
4:	Finger Bass
5:	Finger Slap
6:	Fretless
7:	Syn Bass
8:	Organ Bass
9:	Church Bass 1
10:	Church Bass 2

It is of course possible to directly digit the number of the new desired sound using the numeric keypad buttons.

SPLIT - LEFT SOUND

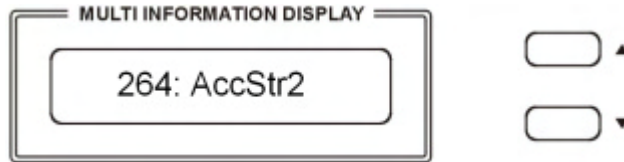


Press the [LEFT] buttons to select the LEFT voice. This will enter the instrument in SPLIT MODE and automatically divide the keyboard in two parts.

The Left Sound will be automatically selected according to the selected Right Sound, however it is possible to change the default left sound.

Select the Right Voice, for example the GRAND PIANO sound, on the VOICE Section.

- Press and hold the LEFT button. The display will show the automatically selected left sound, for example:



- 264 is the number – according to the internal Sound List – of the Left Sound automatically selected to Grand Piano and the sound is Accompaniment Strings 2.

When the LEFT sound is indicated on the display (remember – the instrument gives approximately 4 seconds to input data) the sound can be changed using the [^][v] buttons to select the desired voice number according to the Voice List.

It is of course possible to directly digit the number of the new desired sound using the numeric keypad buttons.

Press the [LEFT] button to switch this section ON or OFF.

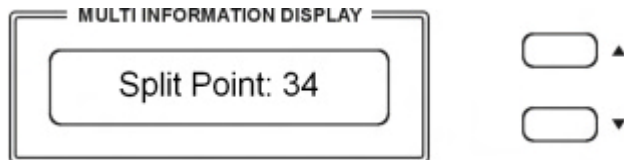
NOTE When the BASS button and the LEFT button are selected On at the same time, when playing chords in the Left part of the keyboard the Bass sound will be played in ROOT mode and will play the fundamental note.

SELECT THE SPLIT POINT

The default position of the Split point is F#2 (equal to value 33 on the display) located below the [BASS] and [LEFT] buttons.

The Split Point can be set to any other key as follows:

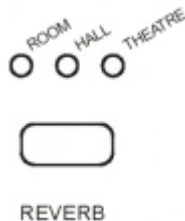
- Press and hold the [BASS] and [LEFT] buttons at the same time until the sound number starts blinking.



- Select now the new Split Point by pressing the desired key on the keyboard or by changing the value on the display using the [^][v] buttons near the display.
- To set for example the new Split Point on the C2 Position change the value to 27.

The display will return to the normal display mode and the new Split Point is now set.

DIGITAL REVERB



The DIGITAL REVERB effect creates different environments. It is possible to types:

an acoustic effect similar to playing in select any one of three different Reverb

1 – Room 2 – Hall 3 - Theatre

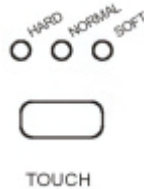
If the REVERB effect is selected, it will stay switched ON even if a different sound is selected while playing. At Power Up the REVERB effect will always be switched at ROOM reverb.

CHORUS EFFECT



This effect is similar to panning the sound between two speaker systems. At Power Up the CHORUS effect will always be switched OFF.

TOUCH SENSITIVITY



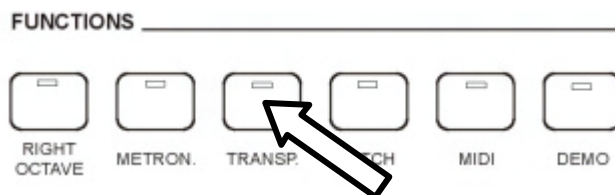
Just like an acoustic piano, your instrument has an 88 note keyboard with velocity control. This means the level of the audio signal will be in proportion with the velocity of the key pressed. If you play soft you will have a quiet sound, while if you play very hard you will have a much louder sound.

The TOUCH SENSE button allows you to select 3 different touch sensitivity curves:

- 1 - HARD This setting requires the keys to be played quite hard to produce maximum volume.
- 2 - NORMAL This setting produces standard keyboard response. This is the factory default mode.
- 3 – SOFT This setting allows maximum volume with lighter key pressure.

Select the Touch Sensitivity you desired by pressing the TOUCH SENSE button until the desired Led is switched On. If no Led is switched On the keyboard will be set at NO TOUCH SENSITIVITY.

TRANSCOPE



It is possible to Transpose the natural key (C) of your instrument up or down. The default C natural setting is indicated as C0 in the following table.

C	C#	D	D#	E	F	F#	G	G#	A	A#	B	C	C#	D	D#	E	F	F#	G	G#	A	A#	B	C
-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	+1	+2	+3	+4	+5	+6	+7	+8	+9	+10	+11	+12

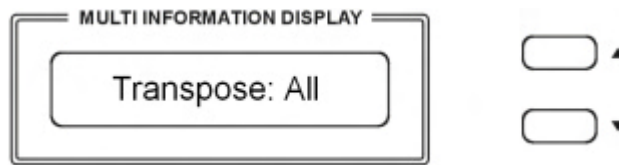
The examples below illustrate how to use the above table:

- To Transpose the instrument to the key of E above C, press the TRANSPOSE button On and press the [^] button 4 times.
- To Transpose the instrument to the key of A# below C, press the TRANSPOSE button On and press the [v] button 2 times.

Press the TRANSPOSE button On and press the [^][v] buttons at the same time to restore the instrument to the key of C0.

TRANSPOSE SET

In this page, you can select which sections of the instrument you would like to transpose. Press and hold the [TRANSPOSE] button to select “ALL” or “Panel” or “Song”.



ALL The entire instrument will be transposed including the USB Song (this is the default mode).

Panel The all instrument will be transposed but not the USB song.

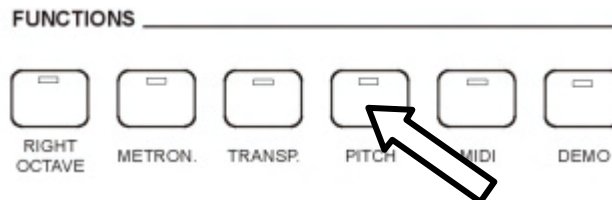
Song Only the USB song will be transposed.

Press the TRANSPOSE button for a few seconds and the display will indicate the available settings.

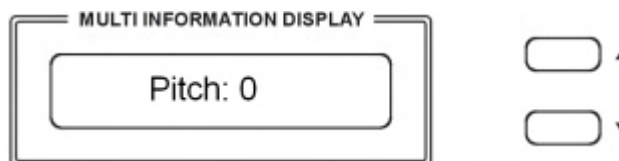
Use the [^] and [v] buttons to select “ALL” or “Panel” or “Song”.

PITCH – FINE TUNING

The PITCH feature enables the player to tune the pitch of the instrument to match other instruments.



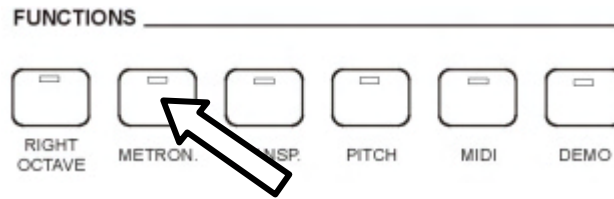
Press the PITCH button and the display will display:



Use the [^][v] buttons to set the desired Pitch value. The PITCH value on the display can be changed between -64 and +63. Press the PITCH button On and press the [^][v] buttons at the same time to restore the instrument pitch to 0.

METRONOME

The Metronome is a convenient feature for practice, and it can also provide a rhythmic guide when recording.



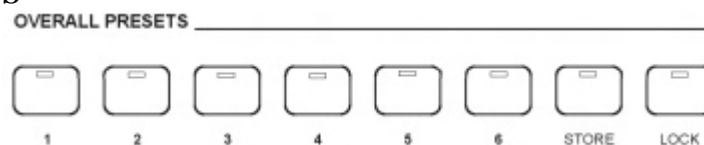
The metronome sound is alternately turned on and turned off by pressing the [METRONOME] button.

The Time Signature of the metronome can be set by using [^][v] buttons when turning on the metronome function and while the Time Signature value is indicated on the display.

To set the Time Signature (1/4, 2/4, 3/4, 4/4, 6/4, 3/8, 6/8, 9/8) press and hold the [METRONOME] button and the values of Time Signature will be indicated on the display, use the [^][v] buttons to select the new value.

To change the Tempo use the [^][v] buttons to set the desired tempo speed while the metronome is playing.

OVERALL PRESETS



The instrument can store 24 Overall Preset (6 groups x 4 banks of panel settings).

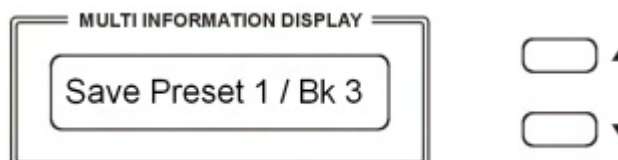
By pressing the corresponding memory button, you can recall these settings rapidly. You can customise the panel settings to accommodate your performance and store them to the registration memory positions.

These settings will not be lost, even if the power is turned OFF.

It is possible to load up to 24 Overall Presets using the 6 Memory positions and 4 memory banks. By pressing the [STORE] button four times, you can select 4 different banks. The display shows the available memory banks [1 to 4 Memory Bank].

The following parameter can be saved: Left/Right Sounds, Volume levels, Octave, Effects, etc. Other global parameters are also memorized.

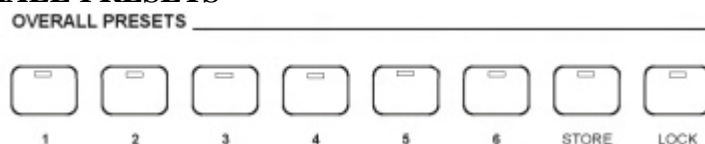
- Select the desired sounds, volume and effects.
- Select the Memory Bank where to store the new settings by pressing a few times the [STORE] button, for example BANK 3.
- Press and hold [STORE] button, and then press one of the [1 - 6] buttons where to store the panel setting, for example 1.
- The LCD displays



The current panel settings are now stored in the memory in position nr. 1 in BANK 3 .
It is possible to repeat this procedure for all available positions.

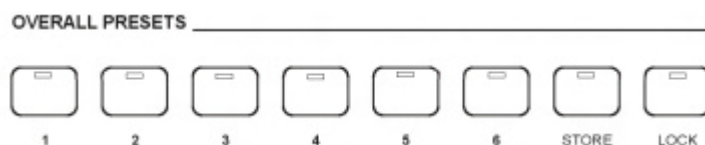
NOTE: In the Overall Preset memories it is possible to store 2 different Player Choice sounds for each one of the memory location, having available a total of 48 Player Choice sounds.

RECALLING OVERALL PRESETS



By pressing the [1 - 6] buttons, the information you have stored previously can be recalled.
Press [STORE] button to access the Memory banks (press a few times).
The LCD displays the panel settings and memory position number.

LOCK



Pressing the [LOCK] button, turns the LOCK function ON/OFF. When the LOCK function is ON, the registration sounds stored in each memory location can be recalled, while the Left and bass sound settings will be LOCKED.

This enables the player to make changes to the melody part(s) of the music 'on the fly'. The Left sections will remain LOCKED, therefore all levels and other parameters pertaining to this section will remain unchanged.

MANAGING THE USB DISK

When inserting the USB disk in its slot you will notice that the display will immediately indicate the first available Midi File Song stored in the memory.

It is possible to load different type of files in the USB disk:

- 1 Standard Midi File songs
- 2 Settings - Overall Presets Registrations

The display will only show the files related to each of the listed groups when selected.

To select one of the groups follow the indications below:

- Press and hold the [USB FILES] button
- Using the [^][v] buttons select one of the 2 available options.

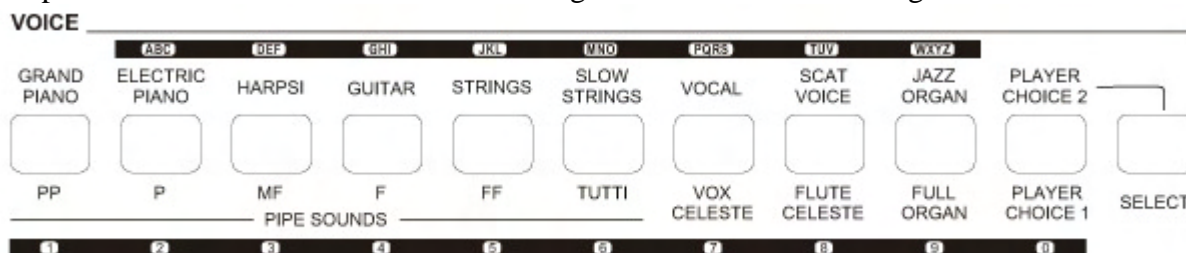
When the desired option is selected the display will show only the USB files related to the type of file selected until the instrument is switched off.

At power up, the instrument will automatically restore the SMF song option.

USB FILES MODE SELECT

The files listed in the USB disk can be accessed in two ways: by number or by alphabet letters (you can see the letters and the numbers above and below the VOICE section buttons).

It is possible in fact to access the files recalling their numbers or scrolling the initial letters.



To select these two systems follows these instructions.

- Insert the USB disk in the USB socket
- Press the USB FILES button
- Press and hold the 0 (zero) on the numeric keypad until the display shows

Alphabet or **Number**

- Using the [^][v] buttons select on the display Alphabet or Number as you prefer.
- The available files will now be listed according to your choice, by number or by letters.
- To select the files by numbers simply select the desired number on the display using the numeric keypad indicated below the Voice buttons.

To select the sounds above 99, for example 123, press the number 1 button and hold it until the number 1 appears on the display.

Press then the number 2 and the number 3 buttons to select the sound.

Sound number 123, is now selected.

- To select the files by letters refer to the below table that is similar to telephone letter indications:

1 – no letters	2 – ABC	3 – DEF
4 – GHI	5 – JKL	6 – MNO
7 – PQRS	8 – TUV	9 – WXYZ

- To select the desired letter press the related button as follow:

D – press the 3 button one time. The display shows SEL **D**EF

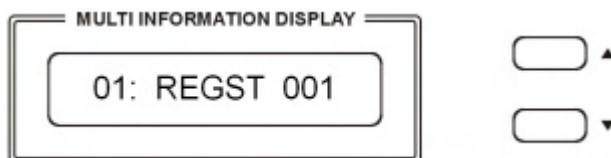
R – press the 7 button 3 times. The display shows SEL **PQRS**

The files are now listed by initial letter. If the selected initial letter is not available in the list the instrument will select the nearest available letter.

SAVE THE OVERALL PRESETS TO USB DISK

It is possible to SAVE the Overall Preset Registrations Banks to the USB Disk by following these instructions:

- Insert the USB Disk to the USB socket.
- Press [SAVE] button and the display will show :



01 indicates the progressive file number
 001 indicates the registration file number

- The display indicating your Overall Preset Registration Settings are saved into USB Disk, with 24 Registration Memories stored to a single file.

New banks of Overall Preset Registration Settings can be stored in the USB disk and a new name will be automatically assigned to each bank as follows:

01 REGST 001
 02 REGST 002
 03 REGST 003
 ... REGST

LOADING THE OVERALL PRESETS DATA FROM USB DISK

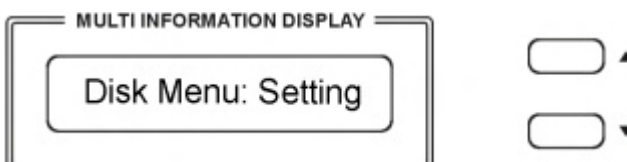
Insert the USB Disk into the USB socket.

Press and hold the [USB FILES] button to access the **Setting** files in the USB Disk.

The display shows:

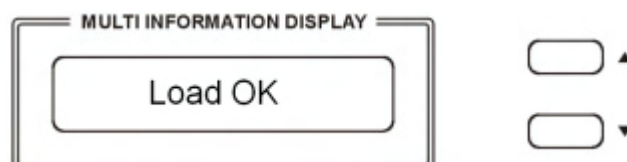


To select the **Setting** page use the [^][v] buttons.



In a few seconds the display will show the first available file.

Use now the [^][v] buttons to select the desired Overall Preset file, then press [PLAY/LOAD] button, display shows "Load OK".

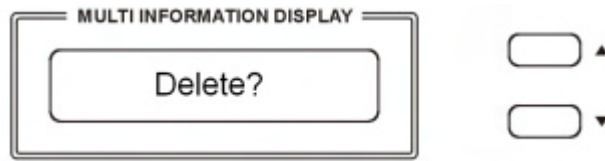


DELETE MEMORY REGISTRATIONS FROM USB

Insert the USB Disk into the USB socket. Press and hold the [USB FILES] button to access the **Setting** files in the USB Disk. Select the **Setting** page by pressing the [^][v] buttons.

Use [^][v] button to select the desired Overall Preset Registration Setting file you want to

delete, then hold down the [RECORD] button and press [PLAY/LOAD] button.
 LCD shows:

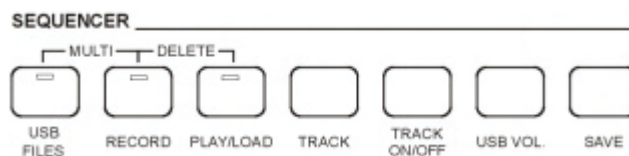


Press [▲] button to delete the file.
 Press [▼] button to exit the function without deleting the file.

NOTE – When a file is deleted from a list its progressive number will be cancelled and saved in a special memory location inside the instrument. This number will be automatically assigned to the next file of the same type that will be loaded.

SONG PLAY MODE

It is possible to play only 1 song at the time or all the songs listed in the USB disk .

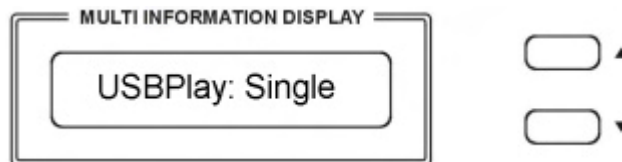


Single The selected song will be played after the [PLAY] button is pressed, and will stop at the end of it.

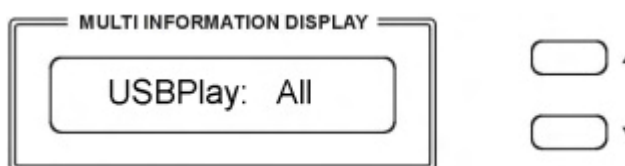
All The selected song will be played after the [PLAY] button is pressed and will automatically play all the following songs without stopping, unless the [PLAY] button is pressed again.

How to select the Single and All mode.

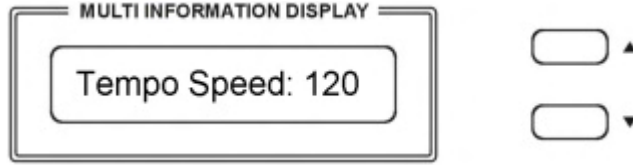
- Press and hold the PLAY/LOAD button. The display shows:



The default mode is Single Mode.
 To select the All mode use the [▲][▼] buttons :



TEMPO CONTROL



The [^] and [v] buttons can be used to control the tempo of the Standard Midi File song played from the USB disk and also the Metronome speed.

SONG RECORDING

The instrument lets you record your Songs and Registration settings to a USB Disk..

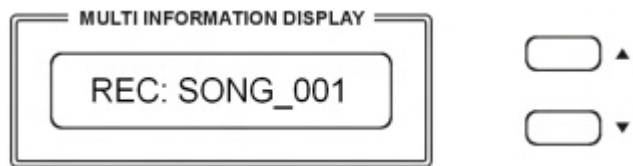
It is possible to record your song using up to sixteen independent tracks. The song will be stored into USB Disk memory.

There are two different ways of recording your song: Quick Recording and Multi Track Recording.

QUICK RECORDING

- 1 Insert the USB Disk into the USB socket.
- 2 Press the [RECORD] button to start recording.

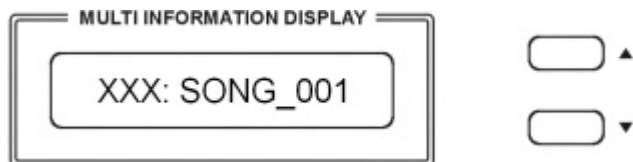
The display shows:



As soon as [RECORD] is pressed the Metronome will automatically start. This can be switched off at any time by pressing the Metronome button OFF.

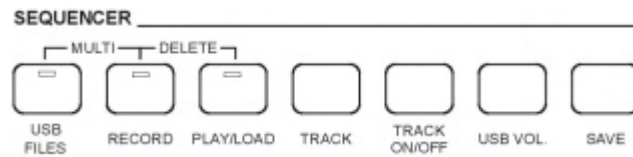
The recording will start as soon as the first key on the keyboard is pressed.

- 3 During recording you can select sounds, volumes, effects and all will be recorded in your performance.
- 4 To stop recording press [RECORD] button again. The recording stops immediately and your song is stored in the USB Disk memory. The internal computer will immediately store your song automatically assigning the name



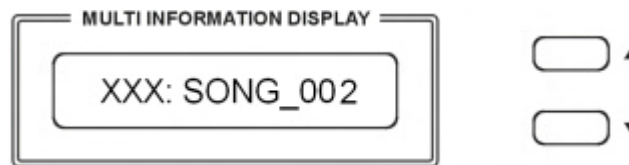
(XXX indicates the total file number. 001 indicates the recording file number).

MULTI TRACK RECORDING



If you like to add new tracks to the just recorded song, select it on the display (as previous example XXX: Song_001) and select now MULTI TRACK RECORDING by pressing the [USB FILES] button and the [RECORD] buttons at the same time(hold down the [USB FILES] button and press [RECORD] button) .

- The Metronome immediately start for two bars and the first recorded Track starts playing.



- It is now possible to record the new track as we did before.
- The name of the new file will be saved in sequence (_003, _004, etc.) as long as new tracks are added t the song.
- To stop recording by pressing [RECORD] button again.
- It is necessary to press the [RECORD] button at the end of each track.

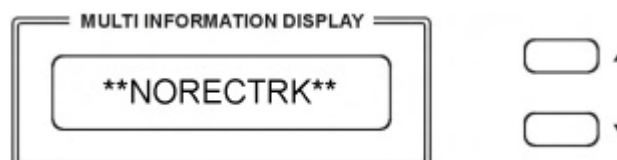
NOTE: the Multi Track Recording will save a song for each track that it is added to the original song file.

This will allow to be able to start from any given song level and add new tracks.

At the end of Multi Track Recording you can delete the old and not necessary files from the USB disk. This means that you may have more songs with similar names (example 001: SONG_11, 002: SONG_11) but remember that the 3 number digits number in front of the song is identifying it in the list.

It is of course possible to change the song names in your computer.

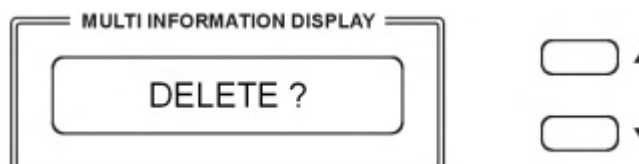
NOTE: In the event that you are recording too many track in the sequence a warning message will appear on the display indicating that there are NO RECORDING TRACKS available.



DELETE SONG/FILE

Insert the USB Disk into the USB socket. Use [^][V] button to select the song or the file you want to delete, then hold down the [RECORD] button and press [PLAY/LOAD] button.

The display shows:



Press [^] button to delete the file.

Press [v] button to exit the function without deleting the file.

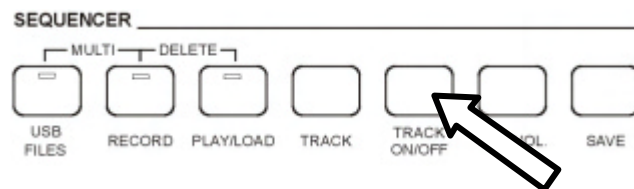
USB FILE BUTTON

Use this button to switch to USB mode immediately, even if the keyboard is in any other mode.

TRACK ON/OFF

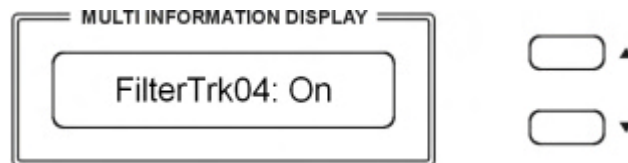
Use this function to turn on or turn off any track of the song played (each track corresponds to a midi channel), even during Play Song.

When switching On the instrument the default track will be nr. 4 that is normally the Melody Track in the Standard Midi Files.



- Press [TRACK ON/OFF] button as many times is necessary to select the desired track.

Every time the button is pressed the Track Number will be updated to the next track.



- Use [^] or [v] button to select "on" or "off".

NOTE - The [TRACK ON/OFF] button is disabled while recording.

USB SONG VOLUME

It is possible to balance the Song Volume using the USB VOLUME .



- Press the USB VOLUME button and the display will indicate the current Song Volume value.
- Use the [^] and [v] buttons to control the volume of the Standard Midi File song played from the USB disk.
- Range: 00-127 Default: 90

MIDI

Use the MIDI button to select the midi settings.

LOCAL CONTROL

Press the MIDI button one time to select Local Control pages

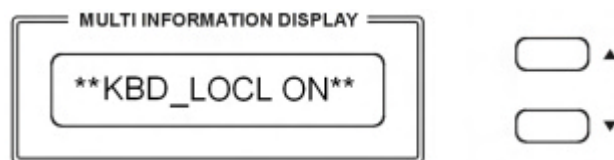
Use [^][v] button to select “**Local On**” or “**Local Off**” for the full instrument.



ALL_LOCL ON Normal operation. Keyboard and USB Song are sent to the internal tone generator.

ALL_LOCL OFF There will be no sound produced by the internal tone generator.

Press the MIDI button again to select the Keyboard Only Local On/Off

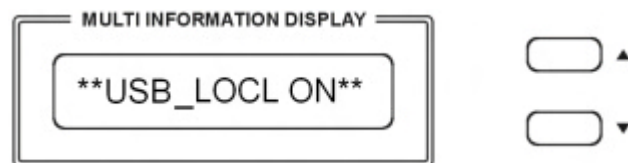


Press the [^][v] buttons you can select the following Local Functions:

KBD_LOCL ON The keyboard will play the internal tone generator.
All the keyboard midi information will be sent as normal.

KBD_LOCL OFF The keyboard will not play the internal tone generator .
All the keyboard midi information will still be sent as normal.

Press the MIDI button again to select the USB Song Local On/Off



USB_LOCL ON The instrument will play the songs of the USB disk using the internal tone generator.

USB_LOCL OFF The instrument will not send the songs of the USB disk to the internal tone generator but will send all the midi information from the Midi Out of the instrument.

Press the MIDI button again to select the PROGRAM CHANGE On/Off



PGM ON This configuration will allow the instrument to send and receive the Program Change Midi information.

PGM OFF This configuration will NOT allow the instrument to send and receive the Program Change Midi information.

Press the MIDI button again to select the PROGRAM CHANGE On/Off



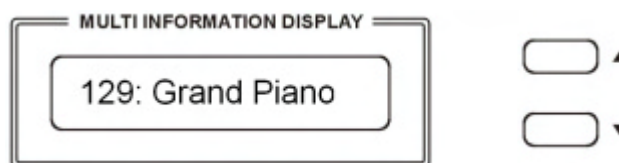
CTL ON This configuration will allow the instrument to send and receive the Control Change Midi information.

CTL OFF This configuration will NOT allow the instrument to send and receive the Control Change Midi information.

RESET

If it should be necessary to completely erase the internal RAM memory, a very simple reset feature is provided.

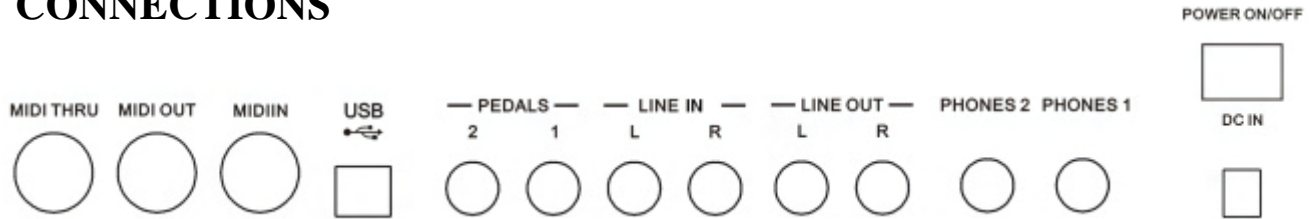
- 1 - Make sure that the instrument is switched off.
- 2 - Press and hold the [^] and [v] buttons



- 3 - Switch on the instrument while holding the [^] and [v] buttons down.
- 4 - The display shows **Reseting**

Do not reset the instrument if it is not necessary. All your information you have programmed will be automatically erased from the internal RAM memory. The factory set programs will be automatically restored.

CONNECTIONS



MIDI IN/THRU/OUT

The Midi THRU connector retransmits any data from the Midi IN directly to other Midi devices.

The Midi OUT connector transmits Midi data generated by the instrument to other Midi instruments.

The Midi IN connector receives the Midi data from an external Midi device.

USB TO COMPUTER

It is possible to connect the instrument to a computer using the USB port located in the back panel of the instrument and control the Midi parameters.

PEDALS SOCKETS

This is the connection for the pedal sets that can be used with the instrument.

If using the supplied Sustain Pedal connect it to Pedal Connection 1.

If the optional 3 Pedals pedal board is used connect the mono jack to pedal connection 1 and the stereo jack to pedal connection 2.

LINE IN SOCKETS

There are two inputs (Left and Right) and they are used to send the audio signal of an external instrument to the internal amplifier.

LINE OUT SOCKETS

There are two outputs (Left and Right) and they are used to send the audio signal out an external amplifier, mixer console or recording equipment. To connect the instrument in Stereo to an external amplification system connect both Left and Right outputs.

HEADPHONES

Two sets of Headphones can be plugged in for private practice and allow you to play without disturbing anyone else or being disturbed by outside noise.

In the SSP12 the sockets are located at the back of the instrument.

POWER ON/OFF

This switch turns the power to the instrument on or off.

DC IN SOCKET

This is the connection to power. Connect the adapter to this socket to power the instrument.

VOICE LIST

NR	PROG CHANGE	BANK	NAME	NAME ON DISPLAY
1	0	0	Grand Piano	GrandPno
2	1	0	Bright Piano	BritePno
3	2	0	Electric Grand	El.Grand
4	3	0	Honky Tonk	HnkyTonk
5	4	0	El. Piano 1	EIPiano1
6	5	0	El. Piano 2	EIPiano2
7	6	0	Harpsichord	Harpsi 1
8	7	0	Clavinet	Clavinet
9	8	0	Celesta	Celesta
10	9	0	Glockenspiel	Glocken
11	10	0	Music Box	MusicBox
12	11	0	Vibraphone	Vibes
13	12	0	Marimba	Marimba
14	13	0	Xylophone	Xylophon
15	14	0	Tubular Bells	Chimes
16	15	0	Dulcimer	Dulcimer
17	16	0	Drawbar Organ	DrawOrgn
18	17	0	Percussive Org.	PercOrgn
19	18	0	Rock Organ	RockOrg3
20	19	0	Church Organ	ChrcOrg1
21	20	0	Reed Organ	ReedOrgn
22	21	0	Accordion	Accordio
23	22	0	Harmonica	Harmnica
24	23	0	Tango Accord.	TangoAcd
25	24	0	Nylon Guitar	NylonGt1
26	25	0	Steel Guitar	SteelGtr
27	26	0	Jazz Guitar	JazzGtr1
28	27	0	Clean Guitar	CleanGt1
29	28	0	Muted Guitar	Mute Gtr
30	29	0	Overdriven Guit.	Ovrdrive
31	30	0	Distortion Guitar	Distort
32	31	0	Guitar Harmonics	Gtr Harm
33	32	0	Acoustic Bass	Ac.Bass1
34	33	0	Finger Bass	FngBass1
35	34	0	Pick Bass	PickBass
36	35	0	Fretless Bass	Fretles1
37	36	0	Slap Bass 1	SlapBas1
38	37	0	Slapp Bass 2	Slap Bas3
39	38	0	Synth Bass 1	SynBass1
40	39	0	Synth Bass 2	SynBass2
41	40	0	Violin	Violin
42	41	0	Viola	Viola
43	42	0	Cello	Cello
44	43	0	Contrabass	ContraBs
45	44	0	Tremolo Strings	TremStrg
46	45	0	Pizzicato Strings	Pizzicto
47	46	0	Orchestral Harp	Harp
48	47	0	Timpani	Timpani
49	48	0	String Ensem. 1	Strings1
50	49	0	String Ensem. 2	Strings2
51	50	0	Synth Strings 1	SynStrg1
52	51	0	Synth Strings 2	SynStrg2
53	52	0	Choir Aahs	ChoirAah
54	53	0	Choir Oohs	ScatVoic

NR	PROG CHANGE	BANK	NAME	NAME ON DISPLAY
55	54	0	Synth Voice	SynVoice
56	55	0	Orchestral Hit	Orch Hit
57	56	0	Trumpet	Trumpet
58	57	0	Trombone	Trombon1
59	58	0	Tuba	Tuba
60	59	0	Muted Trumpet	MuteTrum
61	60	0	French Horn	FrenchHr
62	61	0	Brass Section	Brass
63	62	0	Synth Brass 1	SynBras1
64	63	0	Synth Brass 2	SynBras2
65	64	0	Soprano Sax	SprnoSax
66	65	0	Alto Sax	Alto Sax
67	66	0	Tenor Sax	TenorSax
68	67	0	Baritone Sax	Bari Sax
69	68	0	Oboe	Oboe
70	69	0	English Horn	EnglHorn
71	70	0	Bassoon	Bassoon
72	71	0	Clarinet	Clarinet
73	72	0	Piccolo	Piccolo
74	73	0	Flute	Flute
75	74	0	Recorder	Recorder
76	75	0	Pan Flute	PanFlute
77	76	0	Blown Bottle	Bottle
78	77	0	Shakuhachi	Shakhchi
79	78	0	Whistle	Whistle
80	79	0	Ocarina	Ocarina
81	80	0	Square	Square1
82	81	0	Sawtooth	Saw 1
83	82	0	Calliope	Calliope
84	83	0	Chiff	Chiff
85	84	0	Charang	Charang
86	85	0	Voice	Voice
87	86	0	Fifths	Fifth
88	87	0	Bass+Lead	BasLead1
89	88	0	New Age	New Age
90	89	0	Warm Pad	WarmPad
91	90	0	Polysynth	Polysynt
92	91	0	Choir	Choir
93	92	0	Bowed Pad	Bowed
94	93	0	Metallic Pad	Metallic
95	94	0	Halo Pad	Halo
96	95	0	Sweep Pad	Sweep
97	96	0	Rain	Rain
98	97	0	Sound Track	SoundTrk
99	98	0	Crystal	Crystal
100	99	0	Atmosphere	Atmosph1
101	100	0	Brightness	Brightns
102	101	0	Goblins	Goblins
103	102	0	Echoes	Echoes
104	103	0	Sci-Fi	SciFi
105	104	0	Sitar	Sitar
106	105	0	Banjo	Banjo
107	106	0	Shamisen	Shamisen
108	107	0	Koto	Koto 1
109	108	0	Kalimba	Kalimba
110	109	0	Bag Pipe	Bagpipe

NR	PROG CHANGE	BANK	NAME	NAME ON DISPLAY
111	110	0	Fiddle	Fiddle
112	111	0	Shanai	Shanai
113	112	0	Tinkle Bell	TnklBell
114	113	0	Agogo	Agogo
115	114	0	Steel Drum	Stl Drum
116	115	0	Wood Block	WoodBlok
117	116	0	Taiko Drum	TaikoDrm
118	117	0	Melodic Tom	MelTom1
119	118	0	Synth Drum	SynDrum1
120	119	0	Reverse Cymbal	RevCymb1
121	120	0	Guit. Fret Noise	FretNois
122	121	0	Breath Noise	BrthNois
123	122	0	Seashore	Seashore
124	123	0	Birds	Tweet
125	124	0	Telephone	Telphon1
126	125	0	Helicopter	Helicptr
127	126	0	Applause	Applause
128	127	0	Gunshot	GunShot
129	0	0	Grand Piano	GrandPno
130	0	8	Grand Piano 2	GranPno2
131	0	16	Grand Piano+Strings	GPno+Str
132	0	24	Octa Piano 1	OctPian1
133	0	25	Octa Piano 2	OctPian2
134	1	0	Bright Piano	BritePno
135	2	0	El.Grand Piano	El.Grand
136	3	0	Honky Tonk	HnkyTonk
137	4	0	E. Piano 1	EIPiano1
138	4	7	Detune E.Piano1	DetPian1
139	4	8	E.Piano 3	MalletEP
140	4	16	Soft E.Piano	SftE.Pno
141	4	24	Mix E.Piano	MixE.Pno
142	5	0	E.Piano 2	EIPiano2
143	5	8	Detune E.Piano2	DetPian2
144	5	16	E.Piano 2 + Strings	EPno+Str
145	5	24	E.Piano 2 + Voice	EPno+Vcl
146	6	0	Harpsichord 1	Harpsi 1
147	6	8	Harpsichord 2	Harpsi 2
148	6	16	Harpsi + Strings	Harps+St
149	7	0	Clavinet	Clavinet
150	7	8	Funky Clavinet	FnkyClav
151	8	0	Celesta	Celesta
152	9	0	Glockenspiel	Glocken
153	10	0	Music Box	MusicBox
154	11	0	Vibes	Vibes
155	12	0	Marimba	Marimba
156	13	0	Xylophone	Xylophon
157	14	0	Chimes	Chimes
158	14	8	Church Bell	ChrcBell
159	14	9	Church Bell 2	ChrcBel2
160	14	16	Tubular Bells	TubulBel
161	15	0	Dulcimer	Dulcimer
162	16	0	Drawbar Organ	DrawOrgn
163	16	8	Detune Organ 1	DetOrgn1
164	16	13	Click Organ	ClickOrg
165	16	14	Theatre Organ 1	Theatre1
166	16	15	Theatre Organ 2	Theatre2

NR	PROG CHANGE	BANK	NAME	NAME ON DISPLAY
167	16	16	60' Organ	60' Orgn
168	16	17	Rock Organ 1	RockOrg1
169	16	18	Cool Organ	CoolOrgn
170	16	20	Tone Weel	ToneWeel
171	16	22	Rotor Organ	RotorOrg
172	16	23	Gospel Organ	GosplOrg
173	16	26	Jazz Organ 1	JazzOrg1
174	16	27	Rock Organ 2	RockOrg2
175	17	0	Percussive Organ	PercOrgn
176	17	8	Jazz Organ 2	JazzOrg2
177	17	16	Detune Organ 2	DetOrgn2
178	18	0	Rock Organ 3	RockOrg3
179	18	14	Chapel Organ	ChaplOrg
180	19	0	Church Organ 1	ChrcOrg1
181	19	8	Church Organ 2	ChrcOrg2
182	19	14	Lower Organ	LowerOrg
183	19	16	Church Organ 3	ChrcOrg3
184	19	24	Church Org.// Dynamic Choir	Chrc+Voc
185	20	0	Reed Organ	ReedOrgn
186	21	0	Accordion	Accordio
187	21	8	Master	Master
188	22	0	Harmonica	Harmnica
189	22	8	Blues Harmonica	BlusHarp
190	23	0	Tango Accordion	TangoAcd
191	24	0	Nylon Guitar	NylonGt1
192	24	8	Nylon Guitar 2	NylonGt2
193	24	16	Nylon Guitar+Strings	NylGt+St
194	25	0	Steel Guitar	SteelGtr
195	25	8	12-Strings Guitar	12StrGtr
196	25	16	Mandolin	Mandolin
197	26	0	Jazz Guitar	JazzGtr1
198	26	1	Jazz Guitar 2	JazzGtr2
199	26	4	Double Jazz Guitar 1	2JazGtr1
200	26	5	Double Jazz Guitar 2	2JazGtr2
201	26	6	Jazz Guitar + Vibes	JGtr+Vib
202	26	8	Hawaiian Guitar 1	Hawaiian1
203	26	16	Hawaiian Guitar 2	Hawaiian2
204	26	24	Country Guitar	CntrGtr1
205	27	0	Clean Guitar 1	CleanGt1
206	27	8	Clean Guitar 2	CleanGt2
207	27	16	Electric Guitar	ElectGtr
208	27	24	60 's Guitar	60' Gtr
209	28	0	Muted Guitar	Mute Gtr
210	28	8	Funk Guitar 1	FunkGtr1
211	28	16	Funk Guitar 2	FunkGtr2
212	29	0	Overdrive Guitar	Ovrdrive
213	30	0	Distortion Guitar	Distort
214	30	8	Feed Back Guitar	FBakGtr1
215	30	16	Distorted Guitar Vibr.	DisGtrVb
216	31	0	Guitar Harmonics	Gtr Harm
217	31	8	Guitar Feed Back 2	FBakGtr2
218	32	0	Acoustic Bass 1	Ac.Bass1
219	32	1	Acoustic Bass 2	Ac.Bass2
220	32	8	Acoustic Bass 3	Ac.Bass3
221	32	16	Bass + Ride Cymbal	Bas+Ride
222	33	0	Finger Bass 1	FngBass1

NR	PROG CHANGE	BANK	NAME	NAME ON DISPLAY
223	33	1	Finger Bass 2	FngBass2
224	33	2	Finger // Slap Bass	Fng Slap
225	33	3	Finger Bass 3	FngBass3
226	33	8	Big Bass	BigBass
227	33	16	Big Bass Sustain	BigBassS
228	33	24	Organ Bass 1	OrgBass1
229	34	0	Pick Bass	PickBass
230	34	8	Bass 16+8	Bass16+8
231	34	16	Bass 8	Bass 8
232	34	24	Organ Bass 2	OrgBass2
233	35	0	Fretles Bass 1	Fretles1
234	35	8	Fretless Bass 2	Fretles2
235	36	0	Slap Bass 1	SlapBas1
236	36	8	Slap Bass 2	SlapBas2
237	37	0	Slap Bass 3	Slap Bas3
238	37	8	Slap Bass 4	SlapBas4
239	38	0	Synth Bass 1	SynBass1
240	38	8	Synth Bass 3	SynBass3
241	38	16	Synth Bass 5	SynBass5
242	39	0	Synth Bass 2	SynBass2
243	39	8	Synth Bass 4	SynBass4
244	40	0	Violin 1	Violin
245	40	8	Violin 2	Violin 2
246	41	0	Viola	Viola
247	42	0	Cello	Cello
248	43	0	Contrabass	ContraBs
249	44	0	Tremolo Strings	TremStrg
250	45	0	Pizzicato	Pizzicto
251	46	0	Harp	Harp
252	47	0	Timpani	Timpani
253	48	0	Strings Ensemble 1	Strings1
254	48	16	Dynamic Orchestra	DynOrch
255	48	25	Orchestra + Flute	Orc+Flut
256	48	26	Orchestra + Oboe	Orc+Oboe
257	48	27	Orchestra + Horn 1	Orc+Hor1
258	48	28	Orchestra + Horn 2	Orc+Hor2
259	49	0	Strings Ensemble 2	Strings2
260	49	8	Octa Strings 1	OctaStr1
261	49	16	Strings Ensemble 3	Strings3
262	49	17	Octa Strings 2	OctaStr2
263	49	18	Accomp. Strings 1	AccStr1
264	49	19	Accomp. Strings 2	AccStr2
265	50	0	Synth Strings 1	SynStrg1
266	51	0	Synth Strings 2	SynStrg2
267	52	0	Choir Aahs	ChoirAah
268	52	4	Choir Aah + Voice	Aah+Voic
269	52	8	Big Choir	BigChoir
270	52	16	Choir+Strings 1	Voc+Str1
271	52	17	Choir+Strings 2	Voc+Str2
272	52	18	Strings + Voice	Str+Voic
273	52	24	Choir + Organ	Voic+Org
274	52	25	Choir + Principal 8'	Voc+Prn8
275	53	0	Choir Oohs	ScatVoic
276	54	0	Synth Voice	SynVoice
277	54	8	Pop Voice	PadVoice
278	54	16	Soft Pad	SoftPad

NR	PROG CHANGE	BANK	NAME	NAME ON DISPLAY
279	55	0	Orchestra Hit	Orch Hit
280	56	0	Trumpet	Trumpet
281	56	8	Trumpet2	Trumpet2
282	56	16	Trumpet3	Trumpet3
283	57	0	Trombone 1	Trombon1
284	57	4	Trombone 2	Trombon2
285	57	8	Mellow Trombone	MelTromb
286	57	24	Soft Trombone	SoftTrom
287	58	0	Tuba	Tuba
288	58	8	Tuba 2	Tuba2
289	59	0	Muted Trumpet	MuteTrum
290	60	0	French Horn 1	FrenchHr
291	60	8	French Horn 2	FrnchHr2
292	60	16	Horn Section	HornSec
293	60	17	Flugel Horn	FlugelHr
294	61	0	Brass	Brass
295	61	3	Soft Brass 1	SoftBras
296	61	4	Soft Brass 2	SftBras2
297	61	8	Soft Brass 3	SftBras3
298	61	9	Soft Brass 4	SftBras4
299	61	16	Big Brass 1	BigBras1
300	61	24	Big Brass 2	BigBras2
301	61	25	Big Brass 3	BigBras3
302	61	26	Big Brass 4	BigBras4
303	62	0	Synth Brass 1	SynBras1
304	62	8	Synth Brass 3	SynBras3
305	63	0	Synth Brass 2	SynBras2
306	63	8	Synth Brass 4	SynBras4
307	64	0	Soprano Sax	SprnoSax
308	65	0	Alto Sax 1	Alto Sax
309	65	8	Alto Sax 2	AltoSax2
310	65	16	Circus Sax	CircusSx
311	66	0	Tenor Sax	TenorSax
312	66	16	Tenor Sax Vibrato	TenSaxVb
313	66	24	Sax Section 1	SaxSect1
314	66	25	Sax Section 2	SaxSect2
315	66	26	Sax Section 3	SaxSect3
316	67	0	Baritone Sax	Bari Sax
317	68	0	Oboe	Oboe
318	69	0	English Horn	EnglHorn
319	70	0	Bassoon	Bassoon
320	71	0	Clarinet	Clarinet
321	71	4	Clarinet Vibrato	ClarinVb
322	71	8	Mellow Clarinet	MelClari
323	71	16	Circus Clarinet	CircusCl
324	71	24	Clarinet Section	ClariSec
325	72	0	Piccolo	Piccolo
326	73	0	Flute	Flute
327	73	8	Jazz Flute	JazFlute
328	74	0	Recorder	Recorder
329	75	0	Pan Flute	PanFlute
330	76	0	Blown Bottle	Bottle
331	77	0	Shakuhachi	Shakhchi
332	78	0	Whistle	Whistle
333	79	0	Ocarina	Ocarina
334	80	0	Square 1	Square1

NR	PROG CHANGE	BANK	NAME	NAME ON DISPLAY
335	80	1	Square 2	Square2
336	80	8	Syn Wave	SynWave
337	81	0	Saw Tooth	Saw 1
338	81	1	Saw Tooth 2	Saw 2
339	81	8	Syn Flute	SynFlute
340	82	0	Calliope	Calliope
341	83	0	Chiff	Chiff
342	84	0	Charang	Charang
343	85	0	Voice	Voice
344	85	8	Voice Sust.	VoiceSus
345	86	0	Fifths	Fifth
346	87	0	Bass Lead 1	BasLead1
347	87	8	Bass Lead 2	BasLead2
348	88	0	Fantasy 1	New Age
349	88	8	Orchestra Bell	OrchBell
350	88	16	Fantasy 2	Fantasy
351	89	0	Warm Pad	WarmPad
352	90	0	Polysynth	Polysynt
353	91	0	Choir	Choir
354	92	0	Bowed	Bowed
355	93	0	Metallic	Metallic
356	94	0	Halo	Halo
357	95	0	Sweep	Sweep
358	96	0	Ice Rain	Ice Rain
359	97	0	Soundtrack	SoundTrk
360	98	0	Crystal	Crystal
361	99	0	Atmosphere 1	Atmosph1
362	99	8	Atmosphere 2	Atmosph2
363	100	0	Brightness	Brightns
364	101	0	Goblins	Goblins
365	101	8	Ghost	Ghost
366	102	0	Echoes	Echoes
367	102	2	Echo Pan	EchoPan
368	103	0	Sci-fi	SciFi
369	104	0	Sitar	Sitar
370	105	0	Banjo	Banjo
371	106	0	Shamisen	Shamisen
372	107	0	Koto 1	Koto 1
373	107	8	Koto 2	Koto 2
374	108	0	Kalimba	Kalimba
375	109	0	Bagpipe	Bagpipe
376	110	0	Fiddle	Fiddle
377	111	0	Shanai	Shanai
378	112	0	Tinkle Bell	TnklBell
379	113	0	Agogo	Agogo
380	114	0	Steel Drum	Stl Drum
381	115	0	Wood Block	WoodBlok
382	115	8	Castanet	Castanet
383	116	0	Taiko Drum	TaikoDrm
384	116	8	Concert Bass Drum	ConBasDr
385	117	0	Melodic Tom 1	MelTom1
386	117	8	Melodic Tom 2	MelTom2
387	118	0	Syn Drum 1	SynDrum1
388	118	8	Syn Drum 2	SynDrum2
389	118	9	Syn drum 3	SynDrum3
390	119	0	Reverse Cymbal	RevCymb1

NR	PROG CHANGE	BANK	NAME	NAME ON DISPLAY
391	120	0	Guitar Fret Noise	FretNois
392	120	1	Guitar Cut Noise	CutNois
393	120	2	String Slap	StrgSlap
394	121	0	Breath Noise	BrthNois
395	121	1	Key Click	KeyClick
396	122	0	Sea Shore	Seashore
397	122	1	Rain	Rain
398	122	2	Thunder	Thunder
399	122	3	Wind	Wind
400	122	4	Stream	Stream
401	122	5	Bubble	Bubble
402	123	0	Birds	Tweet
403	123	1	Dog	Dog
404	123	2	Horse	Horse
405	123	3	Birds 2	Birds
406	124	0	Telephone 1	Telphon1
407	124	1	Telephone 2	Telphon2
408	124	2	Door Open	DoorOpen
409	124	3	Door Close	DoorClos
410	124	4	Scratch	Scratch
411	124	5	Wind Chime	WndChime
412	125	0	Helicopter	Helicptr
413	125	1	Car Start	CarStart
414	125	2	Car Brake	CarBreak
415	125	3	Car Pass	CarPass
416	125	4	Car Crash	CarCrash
417	125	5	Police	Police
418	125	6	Train	Train
419	125	7	Jet	Jet
420	125	8	Star Ship	StarShip
421	125	9	Burst Noise	Burst
422	126	0	Applause	Applause
423	126	1	Laughing	Laughtin
424	126	2	Screaming	Scramin
425	126	3	Punch	Punch
426	126	4	Heart Beat	Heart
427	126	5	Foot Step	FootStep
428	126	6	Yeah	Yeah
429	126	7	One	One
430	126	8	Two	Two
431	126	9	Three	Trhree
432	126	10	Four	Four
433	127	0	Gun Shot	GunShot
434	127	1	Machine	Machine
435	127	2	Laser Gun	LaserGun
436	127	3	Explosion	Explosion
437	0	32	Bassoon	Bassoon
438	1	32	Cassotto	Cassotto
439	2	32	Double Basson	D.Basson
440	3	32	16+16+8	16+16+8
441	4	32	Bandon1	Bandon1
442	5	32	Bandon2	Bandon2
443	6	32	Tuba Fisa	TubaFisa
444	7	32	Accordion	Accord
445	8	32	Horn	Horn
446	9	32	Organ	Organ

NR	PROG CHANGE	BANK	NAME	NAME ON DISPLAY
447	10	32	Harmonium	Harmon
448	11	32	Master 1	Master 1
449	12	32	Master 2	Master 2
450	13	32	Master 3	Master 3
451	14	32	Master 4	Master 4
452	15	32	Master 5	Master 5
453	16	32	Master 6	Master 6
454	17	32	Musette	Musette
455	18	32	French	French
456	19	32	Italian Accordion	Italian
457	20	32	Brilliant	Brillant
458	21	32	Violino	Violino
459	22	32	Celeste	Celeste
460	23	32	Tremolo	Tremolo
461	24	32	American Tremolo	AmerTrem
462	25	32	Tango Accordion	T.Accord
463	26	32	Musette+Piccolo	Mus+Picc
464	27	32	Oboe1	Oboe 1
465	28	32	Oboe 2	Oboe 2
466	29	32	Clarinet	Clarinet
467	30	32	Flute	Flute
468	31	32	Piccolo	Piccolo
469	32	32	Diatonic	Diatonic
470	33	32	Diatonic Bass	DiatBass
471	34	32	Diatonic Chord	DiatChrd
472	35	32	Accordion Bass 1	AccBass1
473	36	32	Accordion Bass 2	AccBass2
474	37	32	Accordion Chord 1	AccChrd1
475	38	32	Accordion Chord 2	AccChrd2
476	39	32	Accordion Chord 3	AccChrd3
477	Drum kits		STANDARD	Standard
478	"		ROOM	Room
479	"		POWER	Power
480	"		ELECTRIC	Electric
481	"		DANCE	Dance
482	"		JAZZ	Jazz
483	"		BRUSH	Brush
484	"		CLASSIC	Classic
485	"		EFFECTS	Effects
486	19	33	PP – PIANISSIMO	PP
487	20	33	P – PIANO	P
488	21	33	MF – MEZZOFORTE	MF
489	22	33	F – FORTE	F
490	23	33	FF – FORTISSIMO	FF
491	24	33	TUTTI	TUTTI
492	25	33	VOX CELESTE	VOXCELES
493	26	33	FLUTE CELESTE	FLTCELES
494	17	33	CHURCH BASS 1	CHURCHBASS1
495	18	33	CHURCH BASS 2	CHURCHBASS2

Drum Kit - a -					
	STANDARD	ROOM	POWER	ELECTRIC	DANCE
24 - C1	Fingers Snap Left	Fingers Snap Left	Fingers Snap Left	Fingers Snap Left	Fingers Snap Left
25 - C#1	Finger Snap Right	Finger Snap Right	Finger Snap Right	Finger Snap Right	Finger Snap Right
26 - D1	Snare Roll	Snare Roll	Snare Roll	Snare Roll	Snare Roll
27 - D#1	High Q	High Q	High Q	High Q	High Q
28 - E1	Slap	Slap	Slap	Slap	Slap
29 - F1	Scratch Push	Scratch Push	Scratch Push	Scratch Push	Scratch Push
30 - F#1	Scratch Pull	Scratch Pull	Scratch Pull	Scratch Pull	Scratch Pull
31 - G1	Sticks	Sticks	Sticks	Sticks	Sticks
32 - G#1	Square Click	Square Click	Square Click	Square Click	Square Click
33 - A1	Metron. Click	Metron. Click	Metron. Click	Metron. Click	Metron. Click
34 - A#1	Metron. Bell	Metron. Bell	Metron. Bell	Metron. Bell	Metron. Bell
35 - B1	Bass Drum 2	Bass Drum 2	Bass Drum 2	El. Bass Drum 2	808 Bass Drum 2
36 - C2	Bass Drum 1	Bass Drum 1	Bass Drum 1	El. Bass Drum 1	808 Bass Drum 1
37 - C#2	Side Stick	Side Stick	Side Stick	Side Stick	Side Stick
38 - D2	Snare Drum 1	Snare Drum 1	Gated Snare	El. Snare Drum 1	808 Snare Drum
39 - D#2	Hand Clap	Hand Clap	Hand Clap	Hand Clap	Hand Clap
40 - E2	Snare Drum 2	Snare Drum 2	Snare Drum 2	Gated Snare	Snare Drum 2
41 - F2	Low Floor Tom	Room Low Tom 2	Room Low Tom 2	El. Low Tom 2	808 Low Tom 2
42 - F#2	Close Hi-Hat	Close Hi-Hat	Close Hi-Hat	Close Hi-Hat	808 Close Hi-Hat
43 - G2	H. Floor Tom	Room Low Tom 1	Room Low Tom 1	El. Low Tom 1	808 Low Tom 1
44 - G#2	Pedal Hi-Hat	Pedal Hi-Hat	Pedal Hi-Hat	Pedal Hi-Hat	808 Pedal Hi-Hat
45 - A2	Low Tom	Room Mid Tom 2	Room Mid Tom 2	El. Mid Tom 2	808 Mid Tom 2
46 - A#2	Open Hi-Hat	Open Hi-Hat	Open Hi-Hat	Open Hi-Hat	808 open Hi-Hat
47 - B2	Low Mid Tom	Room Mid Tom 1	Room Mid Tom 1	El. Mid Tom 1	808 Mid Tom 1
48 - C3	Hi Mid Tom	Room Hi Tom 2	Room Hi Tom 2	El. Hi Tom 2	808 Hi Tom 2
49 - C#3	Crash Cymbal1	Crash Cymbal1	Crash Cymbal1	Crash Cymbal1	808 Crash Cymb 1
50 - D3	High Tom	Room Hi Tom 1	Room Hi Tom 1	El. H Tom 1	808 Hi Tom 1
51 - D#3	Ride Cymbal 1	Ride Cymbal 1	Ride Cymbal 1	Ride Cymbal 1	Ride Cymbal 1
52 - E3	Chinese Cymbal	Chinese Cymbal	Chinese Cymbal	Reverse Cymbal	Chinese Cymbal
53 - F3	Ride Bell	Ride Bell	Ride Bell	Ride Bell	Ride Bell
54 - F#3	Tambourine	Tambourine	Tambourine	Tambourine	Tambourine
55 - G3	Splash Cymbal	Splash Cymbal	Splash Cymbal	Splash Cymbal	Splash Cymbal
56 - G#3	Cowbell	Cowbell	Cowbell	Cowbell	808 Cow Bell
57 - A3	Crash Cymbal2	Crash Cymbal2	Crash Cymbal2	Crash Cymbal2	Crash Cymbal2
58 - A#3	Vibraslap	Vibraslap	Vibraslap	Vibraslap	Vibraslap
59 - B3	Ride Cymbal 2	Ride Cymbal 2	Ride Cymbal 2	Ride Cymbal 2	Ride Cymbal 2
60 - C4	Hi Bongo	Hi Bongo	Hi Bongo	Hi Bongo	Hi Bongo
61 - C#4	Low Bongo	Low Bongo	Low Bongo	Low Bongo	Low Bongo
62 - D4	Mute Hi Conga	Mute Hi Conga	Mute Hi Conga	Mute Hi Conga	808 Mute Hi Cong
63 - D#4	Open Hi Conga	Open Hi Conga	Open Hi Conga	Open Hi Conga	808 Open Hi Cong
64 - E4	Conga Low	Conga Low	Conga Low	Conga Low	808Low Conga
65 - F4	High Timbale	High Timbale	High Timbale	High Timbale	High Timbale
66 - F#4	Low Timbale	Low Timbale	Low Timbale	Low Timbale	Low Timbale
67 - G4	High Agogo	High Agogo	High Agogo	High Agogo	High Agogo
68 - G#4	Low Agogo	Low Agogo	Low Agogo	Low Agogo	Low Agogo
69 - A4	Cabasa	Cabasa	Cabasa	Cabasa	Cabala
70 - A#4	Maracas	Maracas	Maracas	Maracas	808 Maracas
71 - B4	Short Whistle	Short Whistle	Short Whistle	Short Whistle	Short Whistle
72 - C5	Long Whistle	Long Whistle	Long Whistle	Long Whistle	Long Whistle
73 - C#5	Short Guiro	Short Guiro	Short Guiro	Short Guiro	Short Guiro
74 - D5	Long Guiro	Long Guiro	Long Guiro	Long Guiro	Long Guiro
75 - D#5	Claves	Claves	Claves	Claves	808 Claves
76 - E5	Hi Woodblok	Hi Woodblok	Hi Woodblok	Hi Woodblok	Hi Woodblok
77 - F5	Low Woodblok	Low Woodblok	Low Woodblok	Low Woodblok	Low Woodblok
78 - F#5	Mute Cuica	Mute Cuica	Mute Cuica	Mute Cuica	Mute Cuica
79 - G5	Open Quica	Open Quica	Open Quica	Open Quica	Open Quica
80 - G#5	Mute Triangle	Mute Triangle	Mute Triangle	Mute Triangle	Mute Triangle
81 - A5	Open Triangle	Open Triangle	Open Triangle	Open Triangle	Open Triangle
82 - A#5	Shaker	Shaker	Shaker	Shaker	Shaker
83 - B5	Jingle Bell	Jingle Bell	Jingle Bell	Jingle Bell	Jingle Bell
84 - C6	Bell Tree	Bell Tree	Bell Tree	Bell Tree	Bell Tree
85 - C#6	Castanets	Castanets	Castanets	Castanets	Castanets
86 - D6	Mute Surdo	Mute Surdo	Mute Surdo	Mute Surdo	Mute Surdo
87 - D#6	Open Surdo	Open Surdo	Open Surdo	Open Surdo	Open Surdo
88 - E6					

Drum Kit - b -					
	JAZZ	BRUSH	CLASSIC	SOUND FX	
24 - C1	Fingers Snap Left	Fingers Snap Left	Fingers Snap Left	xxxxxxxxxxxxx	
25 - C#1	Finger Snap Right	Finger Snap Right	Finger Snap Right	xxxxxxxxxxxxx	
26 - D1	Snare Roll	Snare Roll	Snare Roll	xxxxxxxxxxxxx	
27 - D#1	High Q	High Q	Closed Hi-hat	xxxxxxxxxxxxx	
28 - E1	Slap	Slap	Pedal Hi-Hat	xxxxxxxxxxxxx	
29 - F1	Scratch Push	Scratch Push	Open Hi-Hat	xxxxxxxxxxxxx	
30 - F#1	Scratch Pull	Scratch Pull	Ride Cymbal	xxxxxxxxxxxxx	
31 - G1	Sticks	Sticks	Sticks	xxxxxxxxxxxxx	
32 - G#1	Square Click	Square Click	Square Click	xxxxxxxxxxxxx	
33 - A1	Metron. Click	Metron. Click	Metron. Click	xxxxxxxxxxxxx	
34 - A#1	Metron. Bell	Metron. Bell	Metron. Bell	xxxxxxxxxxxxx	
35 - B1	Bass Drum 2	Bass Drum 2	Bass Drum 2	xxxxxxxxxxxxx	
36 - C2	Bass Drum 1	Bass Drum 1	Bass Drum 1	xxxxxxxxxxxxx	
37 - C#2	Side Stick	Side Stick	Side Stick	xxxxxxxxxxxxx	
38 - D2	Jazz Snare 2	Brush Tap	Concert SD	xxxxxxxxxxxxx	
39 - D#2	Hand Clap	Brush Slap	Castanets	High Q	
40 - E2	Jazz Snare 1	Brush Swirl	Concert SD	Slap	
41 - F2	Low Floor Tom	Low Floor Tom	Timpani F	Scratch Push	
42 - F#2	Close Hi-Hat	Close Hi-Hat	Timpani F#	Scratch Pull	
43 - G2	H. Floor Tom	H. Floor Tom	Timpani G	Sticks	
44 - G#2	Pedal Hi-Hat	Pedal Hi-Hat	Timpani G#	Square Click	
45 - A2	Low Tom	Low Tom	Timpani A	Metronome Click	
46 - A#2	Open Hi-Hat	Open Hi-Hat	Timpani A#	Metronome Bell	
47 - B2	Low Mid Tom	Low Mid Tom	Timpani B	Guitar Slide	
48 - C3	Hi Mid Tom	Hi Mid Tom	Timpani C	Guitar Cut Noise 1	
49 - C#3	Crash Cymbal1	Crash Cymbal1	Timpani C#	Guitar Cut Noise 2	
50 - D3	High Tom	High Tom	Timpani D	Double Bass Slap	
51 - D#3	Ride Cymbal 1	Ride Cymbal 1	Timpani D#	Key Click	
52 - E3	Chinese Cymbal	Chinese Cymbal	Timpani E	Laughing	
53 - F3	Ride Bell	Ride Bell	Timpani F	Screaming	
54 - F#3	Tambourine	Tambourine	Tambourine	Punch	
55 - G3	Splash Cymbal	Splash Cymbal	Splash Cymbal	Heart Beat	
56 - G#3	Cowbell	Cowbell	Cowbell	Foot Step 1	
57 - A3	Crash Cymbal2	Crash Cymbal2	Concert Cymb. 2	Foot Step 2	
58 - A#3	Vibraslap	Vibraslap	Vibraslap	Applause	
59 - B3	Ride Cymbal 2	Ride Cymbal 2	Concert Cymb. 1	Door Creaking	
60 - C4	Hi Bongo	Hi Bongo	Hi Bongo	Door Closing	
61 - C#4	Low Bongo	Low Bongo	Low Bongo	Scratch	
62 - D4	Mute Hi Conga	Mute Hi Conga	Mute Hi Conga	Wind Chime	
63 - D#4	Open Hi Conga	Open Hi Conga	Open Hi Conga	Car Start	
64 - E4	Conga Low	Conga Low	Conga Low	Car Braking	
65 - F4	High Timbale	High Timbale	High Timbale	Carr Pass	
66 - F#4	Low Timbale	Low Timbale	Low Timbale	Car Crash	
67 - G4	High Agogo	High Agogo	High Agogo	Police	
68 - G#4	Low Agogo	Low Agogo	Low Agogo	Train	
69 - A4	Cabasa	Cabasa	Cabasa	Jet	
70 - A#4	Maracas	Maracas	Maracas	Helicopter	
71 - B4	Short Whistle	Short Whistle	Short Whistle	Starship	
72 - C5	Long Whistle	Long Whistle	Long Whistle	Gun Shot	
73 - C#5	Short Guiro	Short Guiro	Short Guiro	Machine Gun	
74 - D5	Long Guiro	Long Guiro	Long Guiro	Laser	
75 - D#5	Claves	Claves	Claves	Explosion	
76 - E5	Hi Woodblok	Hi Woodblok	Hi Woodblok	Dog	
77 - F5	Low Woodblok	Low Woodblok	Low Woodblok	Horse	
78 - F#5	Mute Cuica	Mute Cuica	Mute Cuica	Birds	
79 - G5	Open Quica	Open Quica	Open Quica	Rain	
80 - G#5	Mute Triangle	Mute Triangle	Mute Triangle	Thunder	
81 - A5	Open Triangle	Open Triangle	Open Triangle	Wind	
82 - A#5	Shaker	Shaker	Shaker	Seashore	
83 - B5	Jingle Bell	Jingle Bell	Jingle Bell	Rain 2	
84 - C6	Bell Tree	Bell Tree	Bell Tree	Bubbles	
85 - C#6	Castanets	Castanets	Castanets	Yeah	
86 - D6	Mute Surdo	Mute Surdo	Mute Surdo	xxxxxxxxxxxxx	
87 - D#6	Open Surdo	Open Surdo	Open Surdo	F6 - One F#6 - Two	
88 - E6			Applause	G6 - Three G#6 - Four	

MIDI Implementation Chart

MIDI Implementation Chart

Function	Transmitted	Recognized	Remarks
Basic Default Channel Changed	1-16CH 1-16CH	1-16CH 1-16CH	
Mode Default Messages Altered	Mode 3 X *****	1 X X	
Note Number : True voice	0-127 *****	0~127 0~127	
Velocity Note ON Note OFF	○ 9nH,v=1~127 ○ 9nH,v=0	○ 9nH,v=1~127 ○ 9nH,v=0 or 8nh	
Affter Key's	X	X	
Pitch Bender	○	○	
Control Change 0,32 6,38 7 10 11 64 66 80 84 91 96,97 100,101 120 121	X X ○ ○ X ○ X X ○ ○ ○ X ○ ○ X ○ ○ X	○ ○ ○ ○ ○ ○ X ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	Bank select MSB,LSB Date entry MSB,LSB Volume Pan Expression Sustain Sostenuto DSP TYPE Portamento control DSP DEPTH Date increment,decrement RPN LSB,MSB All sound off Reset all Controllers
Program Change : True	○ 0-127 0-127	○ 0-127 0-127	
System Exclusive	X	X	
System : Song Position : Song Select Common : Tune	X X X	X X X	
Aux : Local on/off : All Notes Off Messages: Active Sense : Reset	X ○ X ○	X ○ X ○	

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