

OARLA

D i g i t a l P i a n o s

CDP 20

Digital Piano

O w n e r ' s M a n u a l

SAFETY PRECAUTIONS AND INSTRUCTIONS



WARNING

Make sure that the voltage set is suitable for the instrument (the voltage is indicated next to the AC 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 keyboard 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). If should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock This product is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with 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 DIGITAL PIANO

Your Digital Piano is a fine instrument and deserves the most careful treatment.

Follow carefully the next few points, and it will operate at its 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 piano 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.

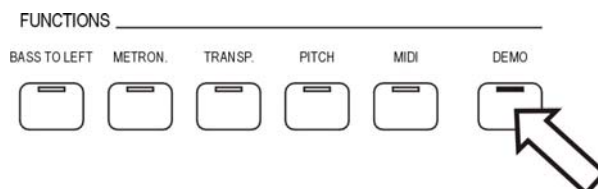
INTRODUCTION

Welcome to the high tech world of electronic instruments. Your piano has been designed and made using the latest technology and computerised systems, to offer you years of trouble free pleasure. Read this manual carefully in order to fully exploit the potential of your instrument.

POWER ON

To turn on the instrument simply push the On/Off switch. The default setting will automatically select the PIANO 1 sound in the VOICE SECTION.

DEMO SONG



The Demo button is located at the right of the control panel. Press this button and the three digits Led Display will indicate:



This is to indicate **d** (demo) **s** (song) number **1**. Use the (∧) and (∨) buttons to select one of the available Demo Songs.

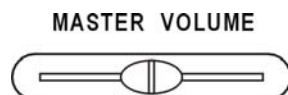
At the end of the selected Demo Song the instrument will automatically play the next Demo Song. The Demo function can be exit by pressing the DEMO button again even while the Demo is playing.

CONTROL PANEL

Your instrument's control panel is designed to be easy to use. Most of the controls are single function. Each control has an LED showing if the function has been activated.

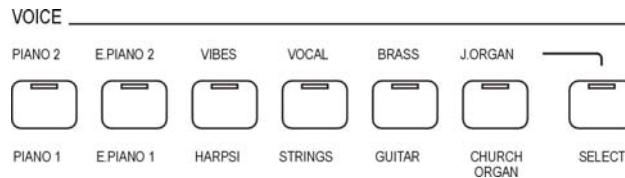
Whenever your instrument is switched on, it will automatically select ACOUSTIC PIANO 1 on the keyboard.

MASTER VOLUME



The Master Volume slider control adjusts the overall volume of the instrument. If the headphone set is connected it will also adjust the headphone volume.

VOICE SECTION



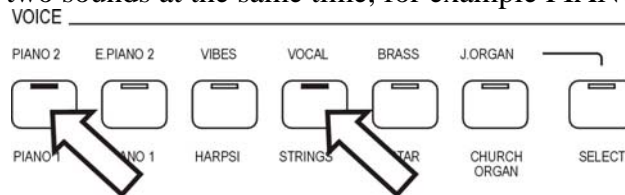
To select the sounds listed below the sound buttons make sure that the SELECT button is switched Off.

Press one of the Voice buttons to select the sound you wish to play. Its Led lights up and you can play the desired sound.

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

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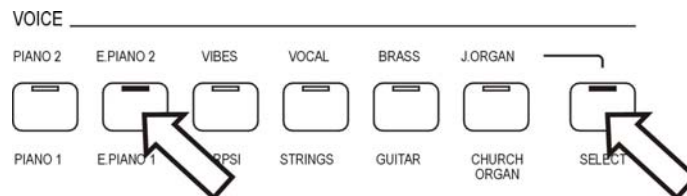
It is also possible to play two sounds at the same time, for example PIANO 1 and STRINGS.



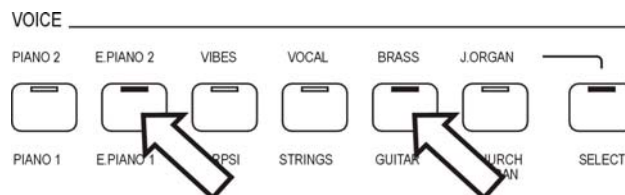
- To select the PIANO 1 sound press and hold the related button.
- While holding down the PIANO 1 button also press the STRINGS button.
- The two sounds are now selected and they can be played at the same time.

It is also possible to play two sounds at the same time, selecting them from the top and the bottom row, for example E.PIANO 1 and BRASS.

- To select the E.PIANO 1 sound press and hold the related button.
- While holding down the E.PIANO 1 button also press the SELECT button to select the upper row.

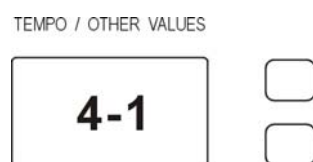


- Release now the SELECT button and while holding the E.PIANO1 button press the BRASS button .



- The two sounds are now selected and they can be played at the same time.

As soon as the second sound is selected the display will indicate

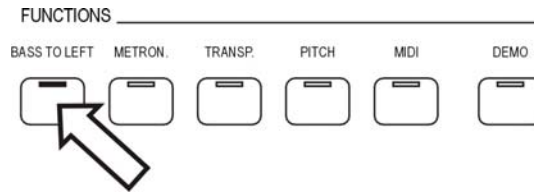


It is now possible to balance the two sounds using the (^) and (\) DATA buttons .

The value 4 is related to the Piano sound and the value 1 to the String sound. Using the (^) and (v) DATA buttons it is possible to balance the two sounds. Try the different volume settings as per below table:

4 - 1	4 - 2	4 - 3	4 - 4	3 - 4	2 - 4	1 - 4
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BASS TO LEFT

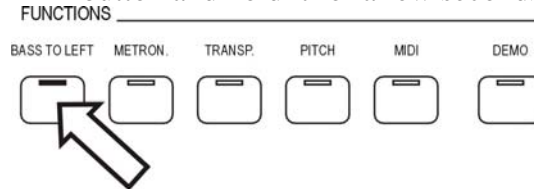


When the BASS TO LEFT button is pressed the instrument automatically splits the keyboard in two parts and a BASS sound is automatically selected.

Please note that when the BASS TO LEFT button is selected, if there are two sounds selected in the VOICE section, the second sound will be automatically switched off.

If necessary it is possible to change the Split Point:

- Press the BASS TO LEFT button and hold it for a few seconds

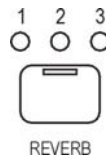


- Hold the button until the display shows:



- The number 48 is related to the active Split Point (C3).
- To change the Split Point use the (^) and (v) DATA buttons to set a different value.
- A few moments after the Split Point is set the display will go back to the Tempo value.

DIGITAL REVERB



The DIGITAL REVERB effects expand the sounds of your instrument giving your music a new dimension. The instrument has three different Reverb Type:

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 gives all the sounds of these sections a fuller, rounder and warmer sound. If the CHORUS effect is selected, it will stay switched ON even if a different sound is selected while playing. At Power Up the CHORUS effect will always be switched OFF.

TOUCH SENSE



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 loudness.
- 2 - NORMAL This setting produces standard keyboard response. This is the factory default mode.
- 3 - SOFT This setting allows maximum volume with light key pressure.

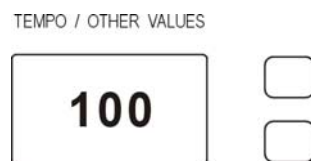
Select the Touch Sensitivity you desired by pressing the TOUCH SENSE button until the desired Led is switched On. If no Led is switched On the keyboard will be set at NO TOUCH SENSITIVITY.

At Power Up the NORMAL curve will be automatically switched ON.

When no Touch Sense Led is switched on, the keyboard will play without touch sensitivity.

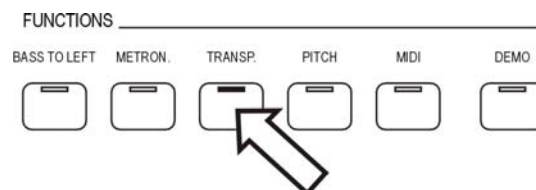
The default value is 100 but it can be changed following these procedure:

- press the Touch Sense button and hold it. The display shows:



- using the (^) and (v) DATA buttons it is possible to change the response from 0 to 127.

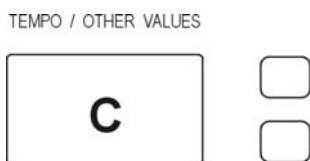
TRANSPOSE



The natural pitch of the instrument is C but can be modified as follows:

- press and hold the TRANSPOSE button in the FUNCTIONS section.

- The display will show:

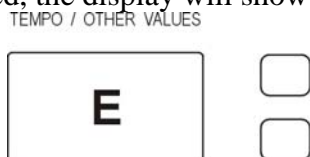


Using the (∧) and (∨) DATA buttons it is possible to transpose the instrument in the desired key according to the following table

G	G#	A	A#	B	C	C#	D	D#	E	F	F#
-5	-4	-3	-2	-1	0	1	2	3	4	5	6

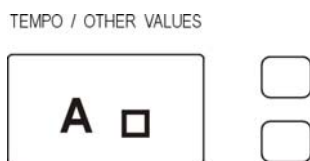
For example, transposing to E:

- Press the (∧) button four times (four semitones).
- As soon as the button is pressed, the display will show



If the new key is A#:

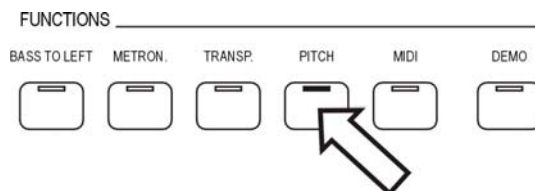
- Press the (∨) button two times (two semitones).
- As soon as the button is pressed, the display will show:



NOTE The ■ symbol is to indicate the # symbol

At Power Up the instrument returns to the original tuning.

PITCH

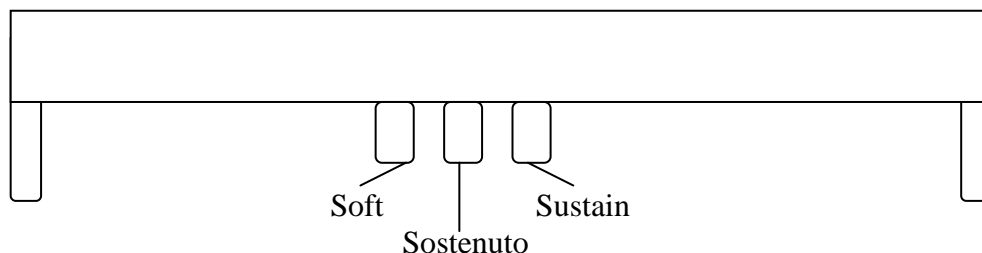


In those cases where transposition by semitones is not enough, and a more accurate tuning is necessary, it is still possible to change pitch.

- 1 - Push the PITCH button.
- 2 - Push the (∧) or (∨) to match the required frequency.

At Power Up the instrument returns to the original tuning.

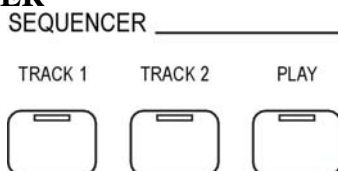
SOFT/SOSTENUTO/SUSTAIN PEDAL



The CDP 20 Digital Piano has 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.

SONG RECORDER – SEQUENCER



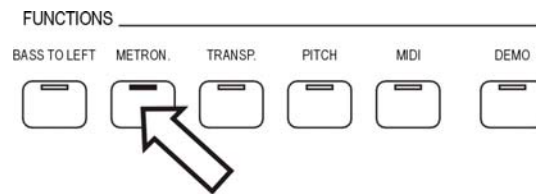
It is possible to store one complete song in two separate Tracks or two songs into two Tracks.

How to store a Sequence:

- 1 - Press Track 1 - its Led is On -.
- 2 - It is possible to start now with or without Metronome, with the selected Time Signature as seen in the METRONOME paragraph. Start playing your own music as soon as you are ready, and the Sequencer will start storing the data as soon as the first key is pressed.
At the end of your recording just press Track 1 again to store the song.
- 3 - It is possible to record a new song in Track 2 in the same way. If you want to store in Track 2 a second part of the same song, press Track 1 first and Track 2 afterwards. Track 1 will be in Play mode and Track 2 will be in Record mode.
- 4 - At the end of recording of Track 2, switch both Track 1 and Track 2 to end recording.
- 5 - To play back Track 1 and Track 2 simultaneously switch them on and press the PLAY button.

- NOTE -**
- a - When a Track is recorded and stored it is necessary to allow a couple of seconds before pressing the PLAY button. This give the time to the internal computer to properly store the Song Data.
 - b - The BASS TO LEFT feature can not be used during recording. The recording of the song it is possible only using one sound in the VOICE section.

METRONOME



To use the METRONOME, push the METRONOME switch, and the pulsed beat selected will be played through the speakers. The beginning of each measure is indicated by a louder sound.

It is possible to change the tempo speed of the metronome by using the (^) and (v) buttons.

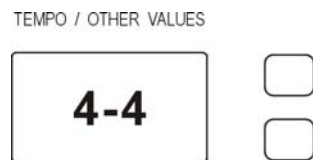
To stop the METRONOME, push the METRONOME switch again

The Metronome will start running according to selected Time Signature. Press the Metronome Off to stop it.

There are different Time Signatures available : Mono Click, 2/4, 3/4, 4/4, 5/4 and 6/8.

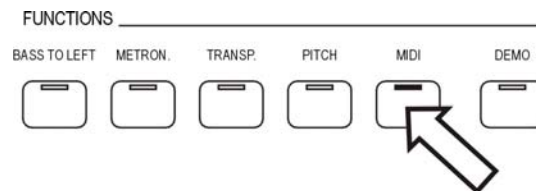
How to select the different Time Signatures:

- press the METRONOME button in the FUNCTIONS section and press it for a few seconds.
- The display will show for example:



Using the (^) and (v) DATA buttons it is possible to change the Metronome Value.

MIDI



When the MIDI button is switched ON the instrument is sending Midi Out data to a slave instrument.

When is switched OFF the midi data are not sent to the external instrument.

CONNECTIONS

HEADPHONE

One headphone set, located on the Left of the instrument, below the keyboard can be plugged in for private practice. They disconnect the speaker system and allow you to play without disturbing the others being disturbed by outside noise.

SUSTAIN PEDAL

This is the Sustain Pedal socket for the sustain feature.

OUTPUTS

The two outputs (Left and Right) are used to send the audio signal out to an external amplifier, mixer console or recording equipment. If you wish to connect the instrument to a stereo system, connect both Left and Right outputs. If instead you want to use a mono system, just connect one jack to the L/R output.

MIDI CONNECTIONS

The Midi IN connector receives the Midi data from an external Midi device which can be used to control the instrument. 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 devices.

CDP 20 Digital Piano - MIDI IMPLEMENTATION CHART V 1.0

FUNCTION	TRANSMITTED	RECOGNIZED	REMARKS	
Basic Channel	Default	1	1	
	Changed	1	1	
Mode	Default	Mode 3	Mode 3	
	Messages	x	x	
Note Number: True voices		21-108	21-108	
			21-108	
Velocity	Note ON	0	0	
	Note OFF	x	x	
After Touch	Key's	x	x	
	Ch's	x	x	
Pitch Bend		x	0	
ControlChange	07	0	0	VOLUME
	10	x	0	PAN POT
	64	0	0	DAMPER
	66	0	0	SOSTENUTO
	67	0	0	SOFT
Program Change : True #		0	0	
		0	0	
System Exclusive		x	x	
System:	Song pos.	x	x	
	Song Sel.	x	x	
Common:	Tune	x	x	
System :	Clock	x	x	
	Real time :	Commands	x	x
Aux Msgs :	Local ON/OFF	x	x	
	All notes OFF	0	0	
	Active sense	x	x	
	Reset	x	x	
Mode 1: OMNI ON, POLY	Mode 3: OMNI OFF, POLY		0 = YES	
Mode 2: OMNI ON, MONO	Mode 4: OMNI OFF, MONO		x = NO	