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DP-95 B, DP-95 WH
digital piano

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1 General information

This user manual contains important information on the safe operation of the device. Read and follow all safety notes and all instructions. Save this manual for future reference. Make sure that it is available to all persons using this device. If you sell the device to another user, be sure that they also receive this manual.

Our products and user manuals are subject to a process of continuous development. We therefore reserve the right to make changes without notice. Please refer to the latest version of the user manual which is ready for download under *www.thomann.de*.

1.1 Further information

On our website (*www.thomann.de)* you will find lots of further information and details on the following points:

Download	This manual is also available as PDF file for you to download.
Keyword search	Use the search function in the electronic version to find the topics of interest for you quickly.
Online guides	Our online guides provide detailed information on technical basics and terms.
Personal consultation	For personal consultation please contact our technical hotline.
Service	If you have any problems with the device the customer service will gladly assist you.

1.2 Notational conventions

This manual uses the following notational conventions:

Letterings

The letterings for connectors and controls are marked by square brackets and italics.
Examples: *[VOLUME]* control, *[Mono]* button.

Displays

Texts and values displayed on the device are marked by quotation marks and italics.
Examples: *'24ch'*, *'OFF'*.

Instructions

The individual steps of an instruction are numbered consecutively. The result of a step is indented and highlighted by an arrow.

Example:

1. ▶ Switch on the device.

2. ▶ Press *[Auto]*.

   ⇨ Automatic operation is started.

3. ▶ Switch off the device.

Cross-references

References to other locations in this manual are identified by an arrow and the specified page number. In the electronic version of the manual, you can click the cross-reference to jump to the specified location.

Example: See .

1.3 Symbols and signal words

In this section you will find an overview of the meaning of symbols and signal words that are used in this manual.

Signal word	Meaning
DANGER!	This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if it is not avoided.
CAUTION!	This combination of symbol and signal word indicates a possible dangerous situation that can result in minor injury if it is not avoided.
NOTICE!	This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if it is not avoided.

Warning signs	Type of danger
	Warning – high-voltage.
	Warning – danger zone.

2 Safety instructions

Intended use

This device is intended to be used for electronic sound generation using a piano keyboard. Use the device only as described in this user manual. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

This device may be used only by persons with sufficient physical, sensorial, and intellectual abilities and having corresponding knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.

Safety

> ⚠ **DANGER!**
> **Danger for children**
>
> Ensure that plastic bags, packaging, etc. are disposed of properly and are not within reach of babies and young children. Choking hazard!
>
> Ensure that children do not detach any small parts (e.g. knobs or the like) from the unit. They could swallow the pieces and choke!
>
> Never let children unattended use electrical devices.

> ⚠ **DANGER!**
> **Electric shock caused by short-circuit**
>
> Do not modify the mains cable or the plug. Failure to do so could result in electric shock/death or fire. If in doubt, seek advice from a registered electrician.

> ⚠ **DANGER!**
> **Electric shock caused by high voltages inside**
>
> Within the device there are areas where high voltages may be present. Never remove any covers.
>
> There are no user-serviceable parts inside.
>
> Do not use the device if covers, protectors or optical components are missing or damaged.

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CAUTION!

Possible hearing damage

With loudspeakers or headphones connected, the device can produce volume levels that may cause temporary or permanent hearing impairment.

Do not operate the device permanently at a high volume level. Decrease the volume level immediately if you experience ringing in your ears or hearing impairment.

CAUTION!

Risk of injury due to heavy weight

Due to the heavy weight of the device, at least two persons are required for transport and installation.

NOTICE!

Operating conditions

This device has been designed for indoor use only. To prevent damage, never expose the device to any liquid or moisture. Avoid direct sunlight, heavy dirt, and strong vibrations.

NOTICE!

Power supply

Before connecting the device, ensure that the input voltage (AC outlet) matches the voltage rating of the device and that the AC outlet is protected by a residual current circuit breaker. Failure to do so could result in damage to the device and possibly injure the user.

Unplug the device before electrical storms occur and when it is unused for long periods of time to reduce the risk of electric shock or fire.

3 Features

The digital piano is characterized by the following features:

- 88 weighted keys with hammer action, touch velocity in 3 steps.
- Multi function LCD.
- User-friendly controls and indicators.
- 500 voices.
- 200 preprogrammed styles.
- 60 preprogrammed practise songs.
- Three memory locations for user songs.
- Song album with 120 songs.
- Two demo songs.
- Sequencer function.
- Single and multi-finger chord detection.
- Recording function.
- Eight memory banks, each with four memory locations.
- Mixer function.
- Connections: USB, 2 × headphones, AUX, MIDI, pedal box.

4 Assembly instructions
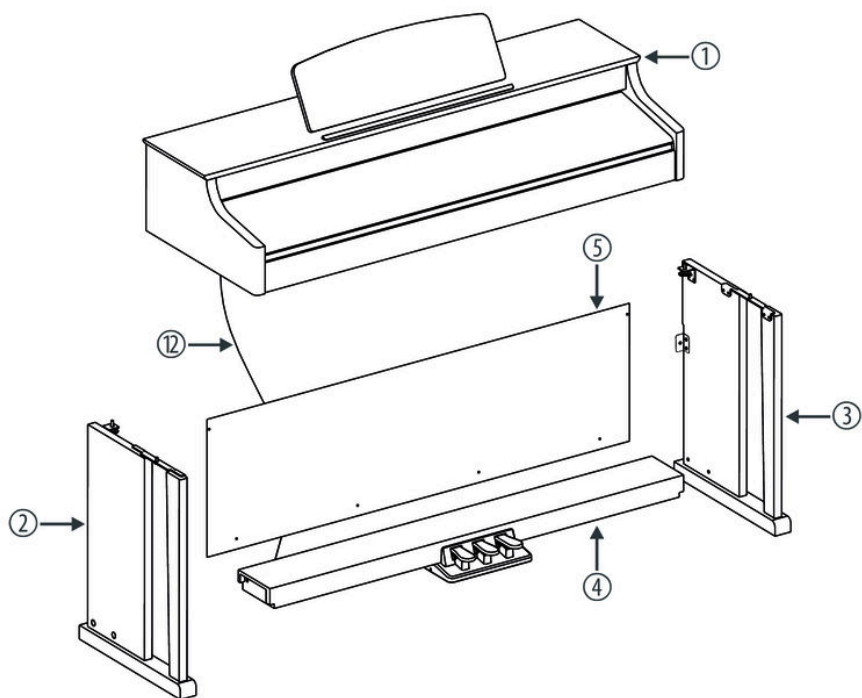
You need a Phillips screwdriver (not supplied) for the assembly of the digital piano. Open the package and please make sure before assembling that the entire scope of delivery is present, as posted here.

1	Digital piano housing with music stand
2	Left side panel
3	Right side panel
4	Pedal box
5	Back panel
6	2 × screws M6 × 18
7	2 × hand screws
8	4 × screws M6 × 40
9	4 × screws M4 × 15
10	2 × screws M6 × 12
11	4 × plastic caps
12	Pedal cable
13	Power cord

Mechanical assembly

1. ▶ Set up the digital piano near a power wall outlet.

2. ▶ Proceed according to the illustrations and only use the supplied screws. Using other screws could damage the piano housing or result in a reduced stability of the piano.
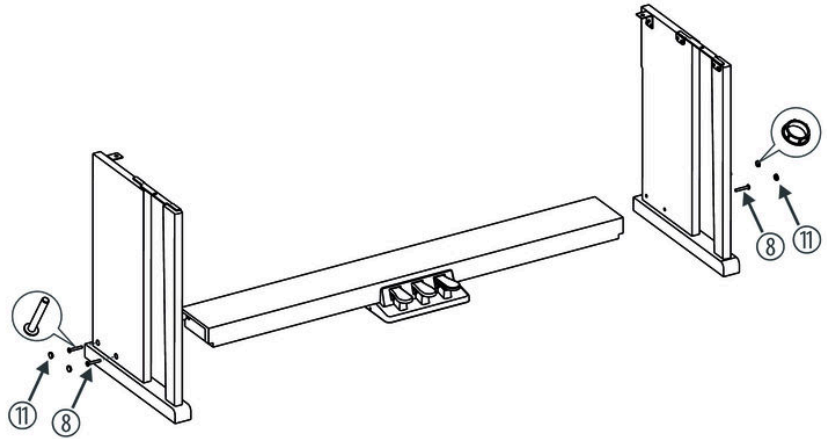
3. ▶ Put the pedal box between the left and right side panel and use two screws M6 × 40 on each side to affix both side panels to the pedal box.
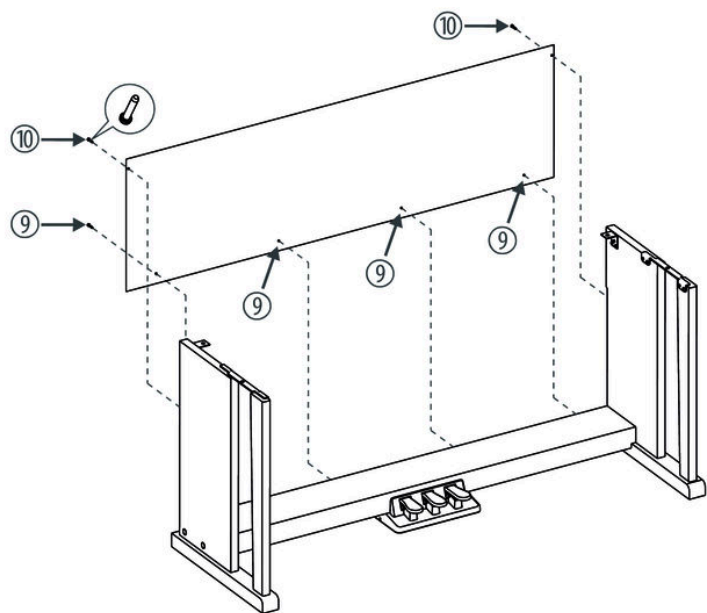
4. ▶ Attach the back panel with four screws M4 × 15 and two screws M6 × 12 to the pedal box and to the rear sides of the side panels.

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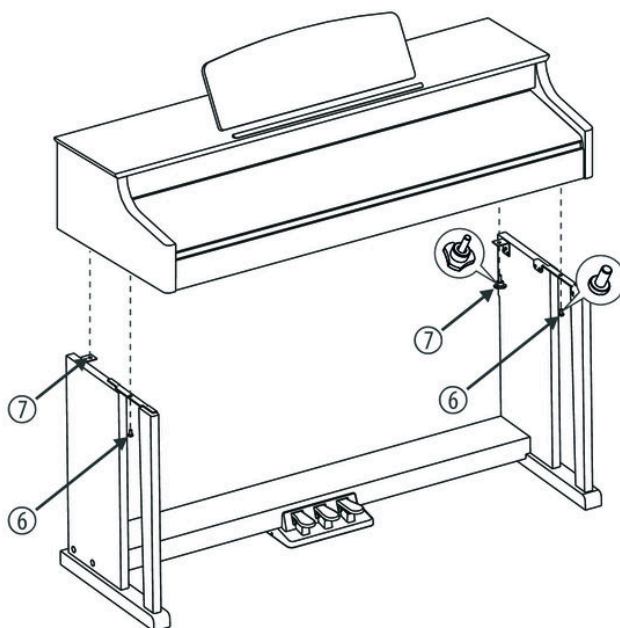
5. ▶ Place the digital piano case on the frame and secure it with two screws M6 × 18 and the two thumbscrews.
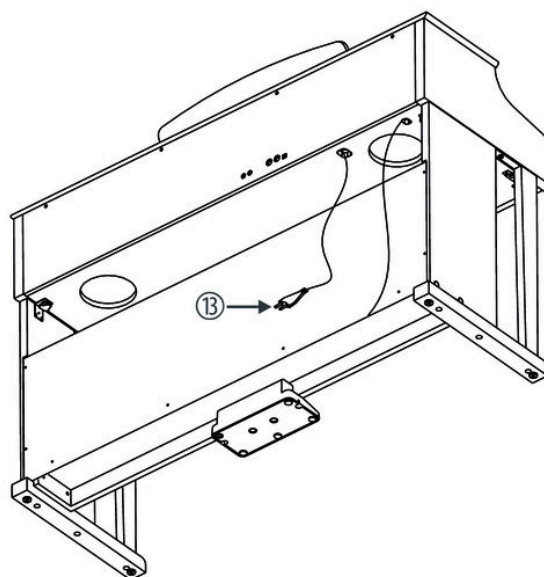
6. ▶ Fasten the cables to the stand. Insert the DIN plug of the pedal cable into the provided socket on the bottom side of the digital piano. Move the digital piano to its designated location.

Mains connection

1. ▶ Make sure that the device is turned off before you connect it to the power supply or disconnect it.

2. ▶ Turn the volume control to minimum.
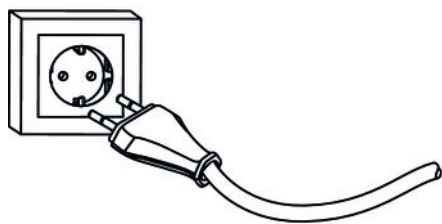
3. ▶ Plug the power cord into a 230 V AC outlet.

4. ▶ Now you can turn on the device.

> ⓘ *If the piano is not in use or when a thunderstorm with danger of lightning threatens, disconnect the device from its mains power for safety.*

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Assembly overview
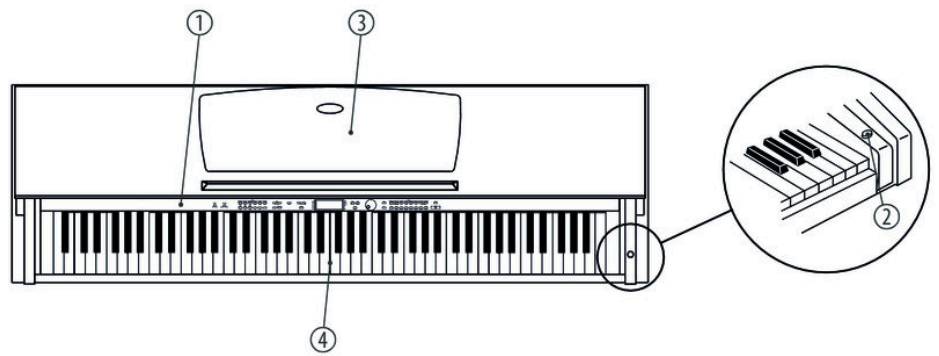
Top view

1	Control panel
2	Main switch
3	Music stand
4	Claviature
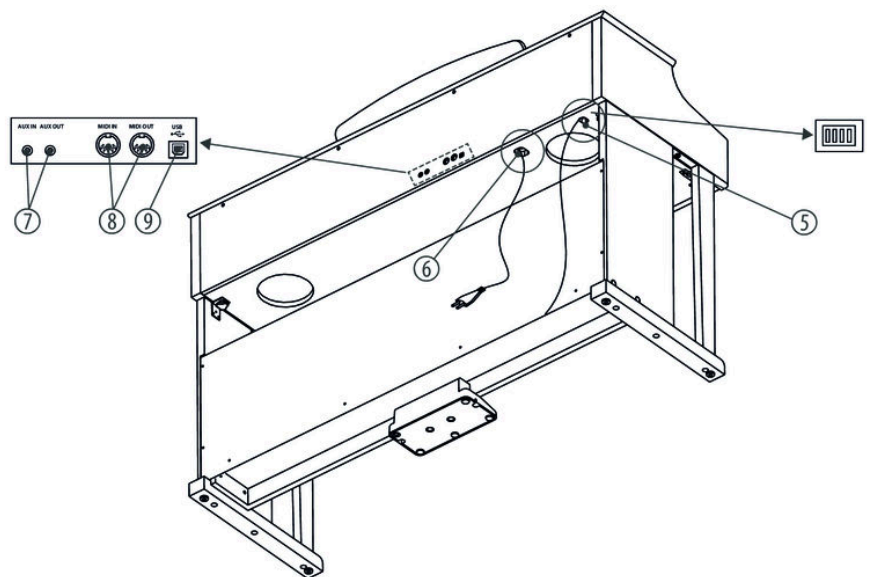
Rear panel

5	Connection for pedal cable
6	Power cord
7	AUX input, AUX output
8	MIDI input, MIDI output
9	USB port
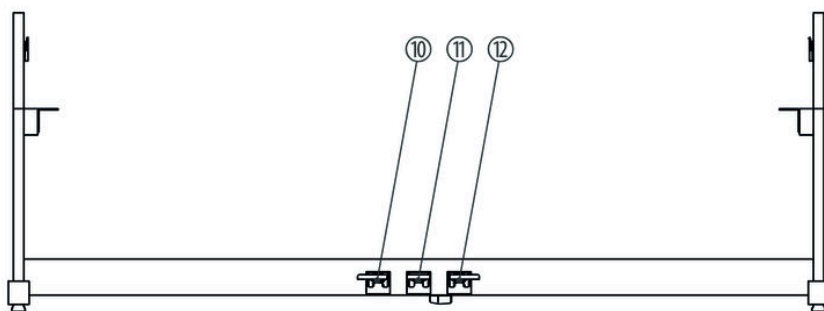
Pedals

10	Soft pedal
11	Sostenuto pedal
12	Sustain pedal

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5 Control panel and connections

1	[VOLUME]
	Rotary volume control.
2	[BRILLIANCE]
	Rotary brilliance control.
3	[STYLES]
	Single button function: direct Style selection.
	Button function with pressed [SHIFT] button in 'MIXER' mode:
	▪ [ACCOMP] Setting the accompaniment track volume.
	▪ [RYTHM] Setting the rhythm section volume.
	▪ [BASS] Setting the bass section volume.
	▪ [CHORD] Setting the chord section volume.
	▪ [LOWER] Setting the dual voice volume.
	▪ [UPPER] Setting the first voice volume.

4	[TEMPO +] | [TEMPO –] | [FUNCTION]
	Single button function: Increasing / decreasing playback tempo.
	Button function with pressed [SHIFT] button: Opening function menu

5	[SHIFT]
	Enables the second function of doubly assigned function buttons.

6	[L]
	Left hand voice selection button in lesson mode.

7	[R] | [DICT]
	Single button function: Right hand voice selection button in lesson mode.
	Button function with pressed [SHIFT] button: Opening chord dictionary.

8	[LESSON]
	Button to call up the lesson mode.

9	[CHORD MODE]
	Button to call up the chord mode.

10	[D]
	Button to insert a fill bar (Fill-in D).

11	[C]
	Button to insert a fill bar (Fill-in C).

12	Buttons for operating mode STYLE	Buttons for operating mode SONG
	■ START / STOP	■ START / STOP ►■
	■ SYNC / START	■ PAUSE ❚❚
	■ INTRO / ENDING	■ REPEAT ↻
	■ FILL A	■ REW ◄◄
	■ FILL B	■ FF ►►

13	Display.

14	[STYLE] | [DEMO]
	Single button function: Calling up Style mode.
	Button function with pressed [SHIFT] button: Calling up Demo mode.

15	[VOICE] | [PERFORM]
	Single button function: Calling up Voice mode.
	Button function with pressed [SHIFT] button: Calling up Performance-Assistant mode

16	Jog dial for selecting functions, parameters and values.

17	[YES/+].
	Increases the displayed value by one.

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18	*[VOICES]*
	Single button function: direct Voice selection.
	Button function with pressed *[SHIFT]* button:
	■ *[PIANO]* Calling up Piano mode.
	■ *[METRONOME]* Turning the metronome on and off.
	■ *[DUAL]* Enabling / disabling right hand voice (R2).
	■ *[LOWER]* Enabling / disabling left hand voice (L).
	■ *[TOUCH]* Enabling default setting.
	■ *[DSP]* Turning digital effects on and off.
	■ *[TRANSPOSE –/+]* Transposing the entire claviature up or down.
19	*[SCALE]*
	Enables / disables the selection of historic tunings.
20	*[OCTAVE]*
	Button for octaving the keyboard in TWINOVA mode.
21	*[TWINOVA]*
	Enables / disables the TWINOVA mode.
22	*[FREEZE]* | *[HARMONY]*
	Single button function: Calling up Freeze mode.
	Button function with pressed *[SHIFT]* button: Calling up Harmony mode.
23	*[O.T.S.]* | *[MELODY 5]*
	Single button function: Enabling One Button Operation.
	Button function with pressed *[SHIFT]* button: Record enabling melody track 5.
24	*[M1] … [M4]* | *[MELODY 1] … [MELODY 4]*
	Single button function: Calling up user settings M1 … M4.
	Button function with pressed *[SHIFT]* button: Record enabling melody tracks 1 … 4.
25	*[STORE]* | *[ACCOMP]*
	Single button function: Saving current values as user setting.
	Button function with pressed *[SHIFT]* button: Record enabling accompaniment track.
26	*[BANK]* | *[RECORD]*
	Single button function: Selecting memory bank.
	Button function with pressed *[SHIFT]* button: Enabling Recording mode.

27	*[NO/–].*
	Decreases the displayed value by one.
28	*[SONG]	[ALBUM]*
	Single button function: Calling up Song mode.
	Button function with pressed *[SHIFT]* button: Calling up Album mode.

Rear panel connections
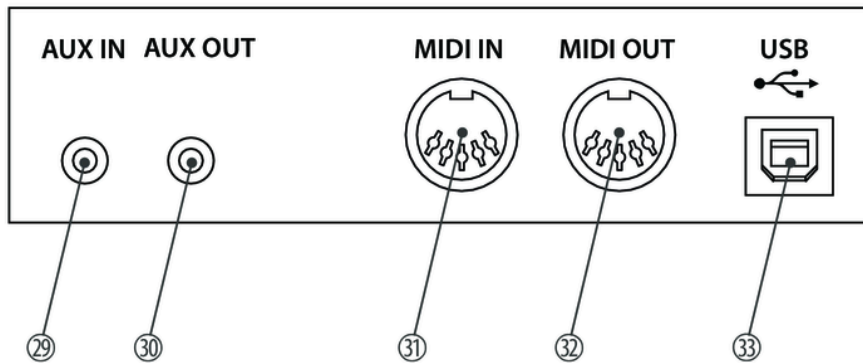
29	*[AUX IN]*
	Input socket for connecting an external audio device (e.g. MP3 or CD player).
30	*[AUX OUT]*
	Output socket for connecting the digital piano to an amplifier, stereo system, mixer or recording device.
31	*[MIDI IN]*
	MIDI in for connecting an external MIDI device.
32	*[MIDI OUT]*
	MIDI out for connecting an external MIDI device.
33	*[USB]*
	USB interface to connect a computer.

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Display
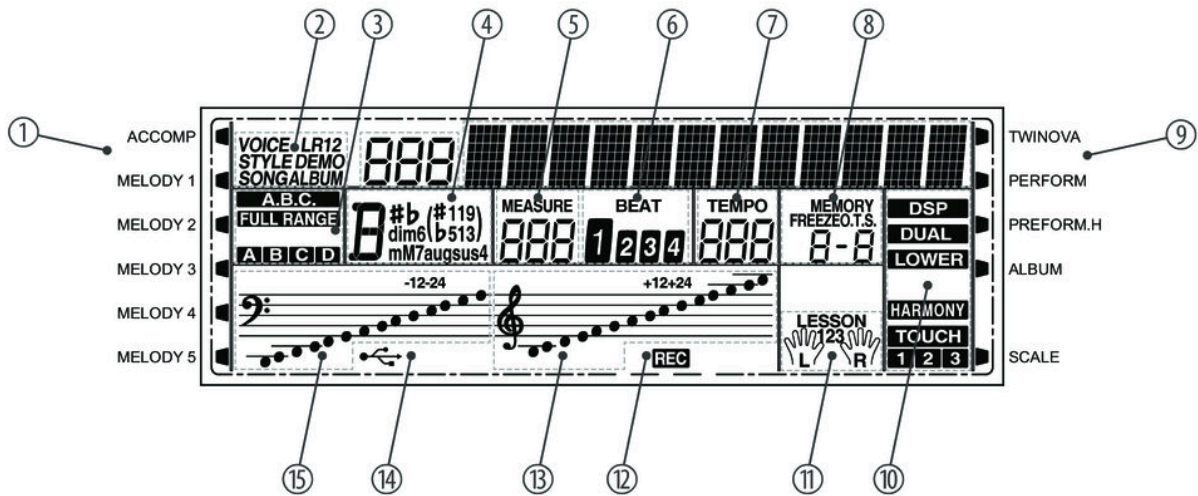
1	Accompaniment track / Melody track 1 … 5		9	Operating mode TWINOVA, PERFORM, PERFORM.H, ALBUM, SCALE
2	Operating mode VOICE, STYLE, DEMO, SONG, ALBUM		10	Operating mode DSP, DUAL, LOWER, HARMONY, TOUCH
3	Chord detection, Full Range, Accompaniment track section		11	Lesson mode, left / right hand active
4	Chord		12	Record
5	Bar		13	Note in treble clef
6	Beat		14	USB connection
7	Tempo		15	Note in bass clef
8	Memory bank, memory location			

Piano keys   The keyboard keys are referred to in this manual as shown below.
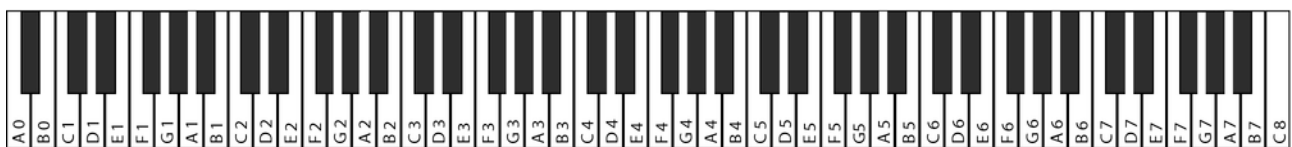
6 Connectivity options

Headphones
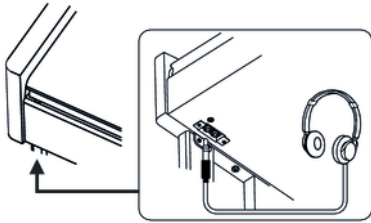
To the left beneath the keyboard you find the headphones outlets 1 and 2.

Connecting headphones (not supplied) to outlet 2 mutes the speakers.

Using outlet 1 maintains the sound output through the speakers.

Pedals
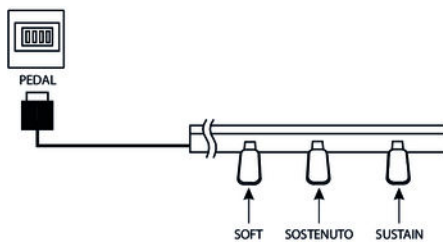
1. Connect the foot pedal to the provided connector on the bottom of the pedal box.

2. Pedal functions:

Soft pedal

Using the Soft pedal makes the piano sound smoother and the overall volume is attenuated.

Sostenuto pedal

When stepping on the Sostenuto pedal, the currently played notes linger until you release the pedal.

Sustain pedal

With the sustain pedal all played notes sound longer. This effect simulates the lifting of the damper in an analogue keyboard instrument.

Computer
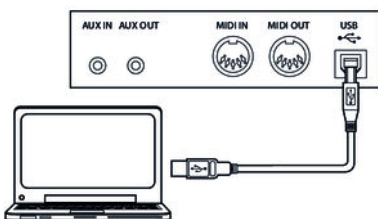
■ USB port
The USB port provides data exchange with a computer.

MIDI port
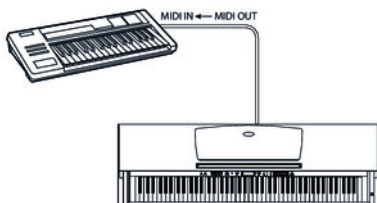
■ MIDI connections
MIDI stands for 'Musical Instrument Digital Interface' and represents a global standard for the communication of numerous electronic instruments and sound modules.

– MIDI IN: The device receives MIDI data from other devices through this port.

– MIDI OUT: MIDI data generated by the digital piano is sent to other MIDI devices through this port.

External audio devices
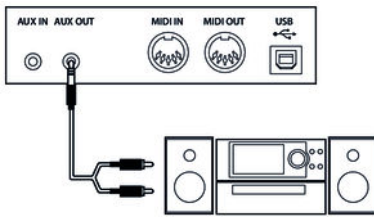
Via the socket *[AUX OUT]* you can connect the digital piano to an amplifier, stereo device, mixing console or recording device. Plug one end of the audio cable into the *[AUX OUT]* socket on the rear panel of the digital piano, and the other end into the input of the respective audio device.

> **!** **NOTICE!**
> To prevent damage to the speakers, turn the volume down to 'Minimum' before you connect other devices to the digital piano.

MP3 / CD player
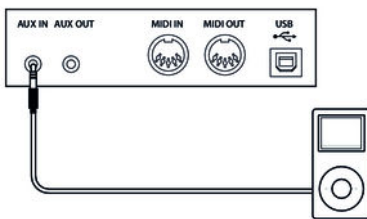
Via the socket *[AUX IN]* you can connect a, for example, CD or MP3 player to the digital piano. So you can playback music through the internal speakers of the digital piano and simultaneously play along to it. Plug one end of the audio cable into the *[AUX IN]* socket on the rear panel of the digital piano, and the other end into the output of the respective audio device.

7 Switching on / off, basic operation

7.1 Turning the digital piano on and off

7.1.1 Normal switching on / off

Press the power button on the right of the claviature to turn the device on and off.

> ⓘ *If the display does not light up after switching on the digital piano, check the power supply.*
>
> *If you hear nothing coming from the speakers, the volume may be set to 'minimum'.*

7.1.2 Automatic shutdown

If the digital piano is not in use, it shuts off after 30 minutes automatically. For adjusting or disabling the automatic shutdown, please proceed as described here ⓥ *Chapter 7.1.2 'Automatic shutdown' on page 23.*

To turn the device on again after an automatic shutdown, press the on / off switch to the right of the claviature.

7.2 Setting up the digital piano, Function menu

Simultaneously press the buttons *[SHIFT]* and *[FUNCTION + | −]* to call up the Functions menu. Select the desired sub menu using the buttons *[FUNCTION + | −]*. You can then change the following parameters using the jog dial or the buttons *[YES / +]* and *[NO / −:]* ändern:

Option	LCD	Control range	Default value
Fine tuning	Tune	−50 … 50	000
Split point	KeySplit	1 … 88	034
Beats	BeatType	0, 2 … 9	004
Metronome volume	MetroVol	0 … 127	90
Pedal function	Pedal	Sust, St/T, Mem	Sust
Reverb volume	ReverbVol	0 … 127	Depending on the selected voice
Chorus volume	ChorusVol	0 … 127	Depending on the selected voice

Option	LCD	Control range	Default value
Selection Harmony setting	xxxx	Duet, Standard Trio, Full Chord, Rock Duet, Country Duet, Country Trio, Block, 4 Close 1, 4 Close 2, 4 Open, 1+5, Octave, Strum, Echo, Tremolo, Trill	Duet
Effects depth Harmony setting	HarmonySpeed	1 … 4	1
MIDI receive channel	Midi In	1 … 16, ALL	ALL
MIDI send channel	Midi Out	1 … 16	001
Automatic shutoff	Power off	030, 060, OFF	030
Time signature	Perform Beat	4–4, 3–4, 2–4, 6–8	4–4

If you don't press any key within five seconds after entering the function menu, the menu is automatically closed.

7.2.1 Fine tuning
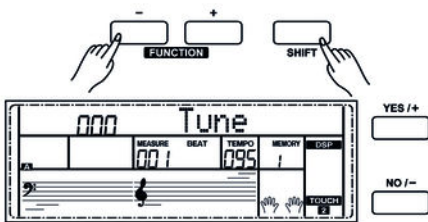
With this function you can fine tune the entire claviature in cent steps.

1. ▷ Use *[FUNCTION + | –]* to switch to *'Tune'* menu. The current setting appears on the display.

2. ▷ Adjust the tuning using the buttons *[YES / +]* or *[NO / –]* or the jog dial in a range of –50 to +50 cents. Each time a key is pressed, the value changes by 1 cent.

3. ▷ Simultaneously press *[YES / +]* and *[NO / –]*, to reset the tuning to the default value.

7.2.2 Split point
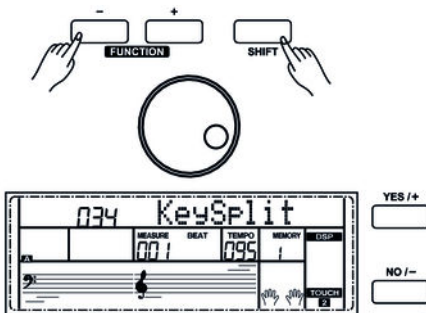
Using this function you can select a point to split the whole claviature into two areas.

1. ▸ Use *[FUNCTION + | −]* to switch to *'KeySplit'* menu. The current setting appears on the display.

2. ▸ Set the desired split point using the buttons *[YES / +]* or *[NO / −]* or the jog dial. The keys to the right of this point are the right hand area, the keys of the other sides are the left hand area (chord area).

3. ▸ Simultaneously press *[YES / +]* and *[NO / −]* to reset the split point to the default value (F#3 / 034).

7.2.3 Beats
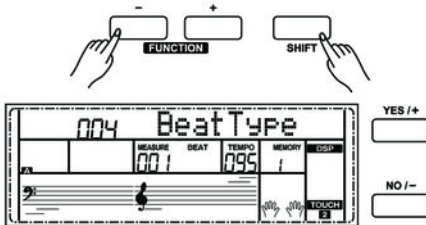
With this function you can set the beats in a range from 0 to 9.

1. ▸ Use *[FUNCTION + | −]* to switch to *'BeatType'* menu. The current setting appears on the display.

2. ▸ Adjust the beat using the buttons *[YES / +]* or *[NO / −]* or the jog dial.

3. ▸ Simultaneously press *[YES / +]* and *[NO / −]* to reset the beat to the default value (004).

7.2.4 Metronome volume
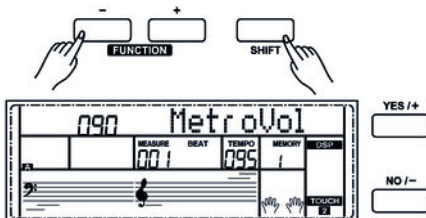
With this function you can set the metronome volume in a range from 0 to 127.

1. ▸ Use *[FUNCTION + | −]* to switch to *'MetroVol'* menu. The current setting appears on the display.

2. ▸ Adjust the volume using the buttons *[YES / +]* or *[NO / −]* or the jog dial.

3. ▸ Simultaneously press *[YES / +]* and *[NO / −]* to reset the volume to the default value (090).

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7.2.5 Pedal function selection
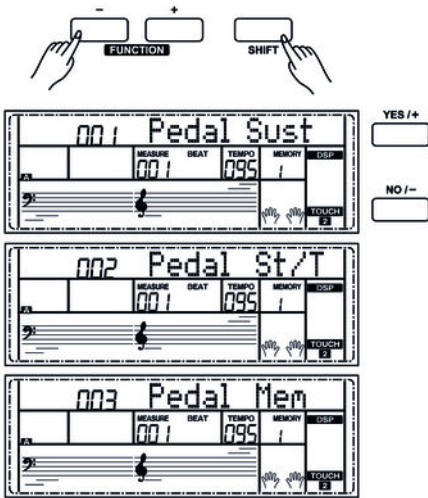
With this function you can assign the pedal function.

1. ▶ Use *[FUNCTION + | −]* to switch to *'Pedal'* menu. The current setting appears on the display.

2. ▶ Use the buttons *[YES / +]* or *[NO / −]* or the jog dial to select the desired pedal function: *'Sust'* (Sustain pedal), *'St/T'* (enabling / disabling accompaniment track), *'Mem'* (controlling storage function).

3. ▶ Simultaneously press *[YES / +]* and *[NO / −]* to reset the pedal function to the default value (Sust).

7.2.6 Reverb volume
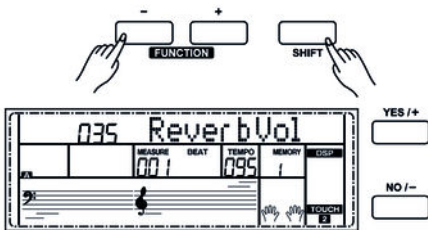
With this function you can set the Reverb effects volume in a range from 0 to 127.

1. ▶ Use *[FUNCTION + | −]* to switch to *'ReverbVol'* menu. The current setting appears on the display.

2. ▶ Adjust the effects volume using the buttons *[YES / +]* or *[NO / −]* or the jog dial.

3. ▶ Simultaneously press *[YES / +]* and *[NO / −]* to reset the effects volume to the default value (depending on the selected voice).

7.2.7 Chorus volume
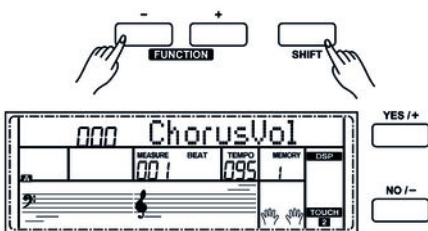
With this function you can set the Chorus effects volume in a range from 0 to 127.

1. ▶ Use *[FUNCTION + | −]* to switch to *'ChorusVol'* menu. The current setting appears on the display.

2. ▶ Adjust the effects volume using the buttons *[YES / +]* or *[NO / −]* or the jog dial.

3. ▶ Simultaneously press *[YES / +]* and *[NO / −]* to reset the effects volume to the default value (depending on the selected voice).

7.2.8 Selecting a setting for the Harmony mode
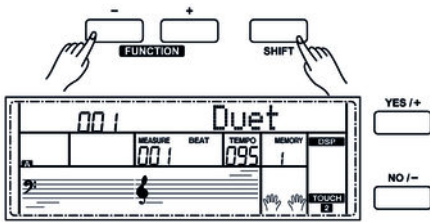
With this function you can determine a setting for the Harmony mode.

1. ▶ Use *[FUNCTION + | –]* to switch to Harmony type menu. The description of the current setting, e.g. *'Duet'*, appears on the display.

2. ▶ Use the buttons *[YES / +]* or *[NO / –]* or the jog dial to select the desired setting:

Number	Display
001	*'Duet'*
002	*'Standard Trio'*
003	*'Full Chord'*
004	*'Rock Duet'*
005	*'Country Duet'*
006	*'Country Trio'*
007	*'Block'*
008	*'4 Close 1'*
009	*'4 Close 2'*
010	*'4 Open'*
011	*'1+5'*
012	*'Octave'*
013	*'Strum'*
014	*'Echo'*
015	*'Tremolo'*
016	*'Trill'*

3. ▶ Simultaneously press *[YES / +]* and *[NO / –]* to load the default setting (Duet).

For the harmony settings Echo, Tremolo and Trill and you can also set the effects depth as described in the following section.

7.2.9 Effects depth in Harmony mode
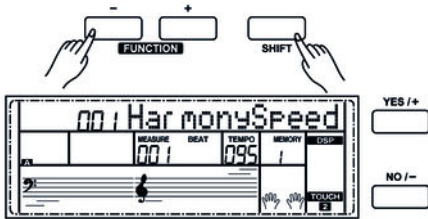
With this function you can determine the effects depth for the Harmony settings Echo, Tremolo and Trill.

1. ▶ Use *[FUNCTION + | –]* to switch to *'HarmonySpeed'* menu. The current setting appears on the display.

2. ▶ Adjust the Effects depth using the buttons *[YES/+]* or *[NO / –]* or the jog dial.

3. ▶ Simultaneously press *[YES/+]* and *[NO / –]* to reset the effects depth to the default value (001).

7.2.10 Midi receive channel (Midi In)
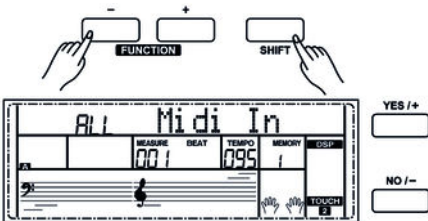
With this function you can determine on which channel the digital piano receives MIDI information from other devices.

1. ▶ Use *[FUNCTION + | –]* to switch to *'Midi In'* menu. The current setting appears on the display.

2. ▶ Set the desired MIDI receive channel using the buttons *[YES/+]* or *[NO / –]* or the jog dial.

3. ▶ Simultaneously press *[YES/+]* and *[NO / –]* to reset the channel selection to the default value (ALL).

7.2.11 MIDI send channel (Midi Out)
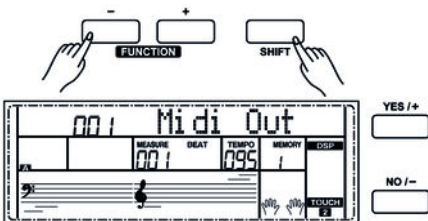
With this function you can determine on which channel the digital piano sends MIDI information to other devices.

1. ▶ Use *[FUNCTION + | –]* to switch to *'Midi Out'* menu. The current setting appears on the display.

2. ▶ Set the desired MIDI send channel using the buttons *[YES / +]* or *[NO / –]* or the jog dial.

3. ▶ Simultaneously press *[YES / +]* and *[NO / –]* to reset the channel selection to the default value (001).

7.2.12 Automatic shutdown

With this function you can specify whether and after what time the automatic shutdown of the digital piano is carried out.

1. ▶ Use *[FUNCTION + | –]* to switch to *'Power Off'* menu. The current setting appears on the display.

2. ▶ Use *[YES / +]* or *[NO / –]* or the jog dial to select one of the following options:

   - ▪ *'030'* (automatic shutdown after 30 minutes)
   - ▪ *'060'* (automatic shutdown after 60 minutes)
   - ▪ *'OFF'* (automatic shutdown off).

3. ▶ Simultaneously press *[YES / +]* or *[NO / –]* to enable the default setting (automatic shutdown after 30 minutes).

7.2.13 Time signature
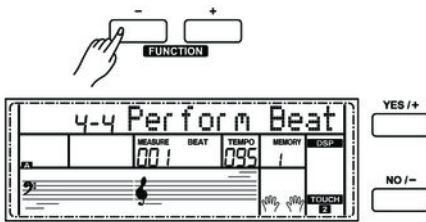
Use this function to determine a Time signature (4–4, 3–4, 2–4 or 6–8).

1. ▶ Use *[FUNCTION + | –]* to switch to *'Perform Beat'* menu. The current setting appears on the display.

2. ▶ Adjust the Time signature using the buttons *[YES / +]* or *[NO / –]* or the jog dial.

3. ▶ Simultaneously press *[YES / +]* and *[NO / –]* to reset the Time signature to the default value (4–4).

7.3 Adjusting the volume

Use the rotary control *[VOLUME]* to set a comfortable volume for playing and practising. Turn this control clockwise to increase the volume. Turn it counter-clockwise to reduce the volume.

7.4 Setting the Brilliance
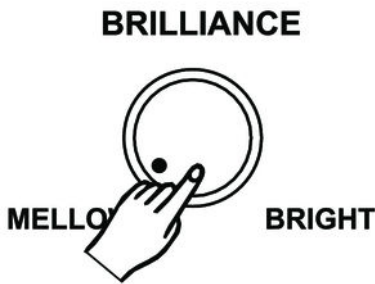
Use the rotary control *[BRILLIANCE]* to adjust the Brilliance of the digital piano. The sound of the entire keyboard range gets softer and darker when you turn the knob to the left, and brighter and more brilliant when you turn the knob to the right.

7.5 Transposing
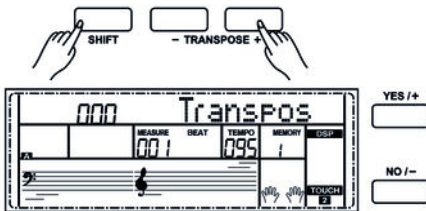
With this function you can adjust the pitch of the claviature in 12 semitone steps up or down.

1. ▶ Keep the button *[SHIFT]* pressed and adjust the pitch of the claviature using the buttons *[TRANSPOSE +/−]* .

2. ▶ Simultaneously press *[YES / +]* and *[NO / −]* to restore the default setting (no transposing).

7.6 Touch sensitivity
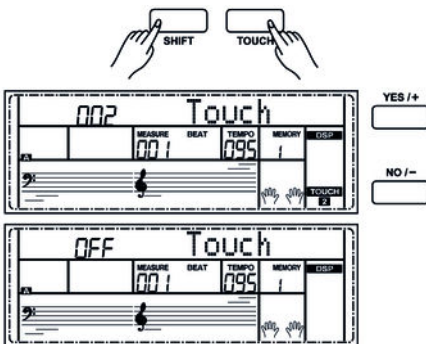
With this function you can adjust the touch response of the keyboard at four levels.

1. ▶ Simultaneously press the buttons *[SHIFT]* and *[TOUCH]* to open the menu for adjusting the touch sensitivity.

2. ▶ Adjust the Touch sensitivity using the buttons *[YES / +]* and *[NO / −]* or the jog dial.

3. ▶ Simultaneously press *[YES / +]* and *[NO / −]* to restore the default setting (002).

Parameter	Description
'OFF'	Touch sensitivity is off. This can be very recommendable when playing the organ voice.
'001'	Soft In this setting, the volume is higher than usual even when playing with a soft touch.
'002'	Normal This setting corresponds to the usual touch response of a keyboard.
'003'	Hard In this setting, the volume is lower than usual even when playing with a hard touch.

7.7 DSP effects depth
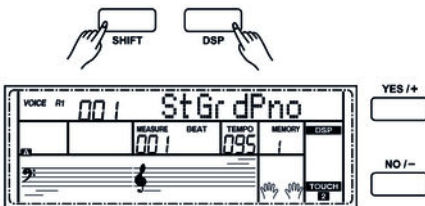
This function lets you change the intensity of the Reverb and Chorus effects.

1. ▷ This function is enabled by default when the digital piano is turned on. The DSP indicator lights up on the display.

2. ▷ Simultaneously press the buttons *[SHIFT]* and *[DSP]* to turn the function off and back on again.

7.8 Factory defaults

Proceed as follows to restore the factory default settings:

1. ▷ Turn off the digital piano.

2. ▷ When turning back on, keep the buttons *[YES / +]* and *[NO / –]* pressed.

⇨ All user songs and settings are reset or deleted without further confirmation prompt. The display shows *'Wait …!'*.

8   Operating

8.1   Demo pieces
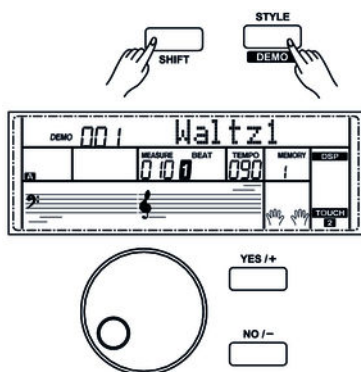
The digital piano offers a total of two demo songs.

1. ▶ Press the *[SHIFT]* and *[DEMO]* buttons simultaneously to enter the DEMO mode. The first demo song is displayed and the both demo songs will be played in a endless loop.

2. ▶ During playback, you can switch between the two demo songs using the *[+/YES]* and *[–/NO]* buttons or the jog dial.

3. ▶ Push the *[PLAY/STOP]* button to stop playback.

4. ▶ Press the *[SHIFT]* and *[DEMO]* buttons simultaneously to quit the DEMO mode.

> *In DEMO mode, only the buttons [SHIFT], [DEMO], [START/STOP], [+/YES] and [–/NO], [VOLUME] and [BRILLIANCE] as well as the jog wheel are available. All other buttons are disabled.*

8.2   Practising songs
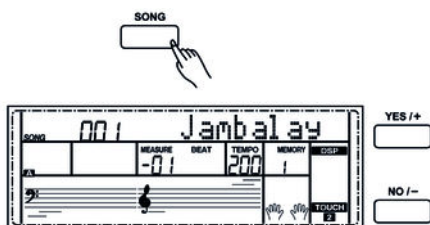
The digital piano offers 60 practise songs, where you can mute the right hand voice and play this part yourself.

1. ▶ Playing and stopping practising songs

Press the *[SONG]* button to enter the playback mode for practising songs. *'SONG'* appears on the display and all practising songs are being played in an endless loop.

Press the *[START/STOP]* button, to stop the currently playing practising song. This will not quit the mode for practising song playback *'SONG'*.

2. ▶ Single loop

If you press the *[START/STOP]* button again the current song is repeated in an endless loop until you press the *[START/STOP]* button again.

3. ▶ Selecting a practising song

Use the jog dial or the *[+/YES]* or *[–/NO]* buttons to select the desired practising song. If you select a new practising song, the display shows first the title in running text, then the abbreviation.

4. ▶ Playback control

Pre-count

One bar will be pre-counted before playback begins. The bar display starts with a negative value. The practising song starts with bar 1.

Fast-forward, rewind, pause

Keep the ►► button pressed during playback to fast-forward the practising song. Use the ◄◄ button to rewind bar by bar. Press the ❚❚ button to pause playback.

Repeat function

While the practising song is playing you can set two loop marks with the ⟳ button. Press the button at the desired start point of the loop and again at the end point.

5. ▶ To exit practising song playback press any direct select or function button.

Lesson mode

When practising, it is especially important to play the right **notes** at the right **time** . In this mode you can check your progress. Press the *[LESSON]* button in SONG mode to activate the Lesson mode. There are three training stages. Use the buttons *[R]* and *[L]* to specify which hand you want to practise. If you don't select a hand, the right hand will automatically be selected.

Lesson 1 - playing in time
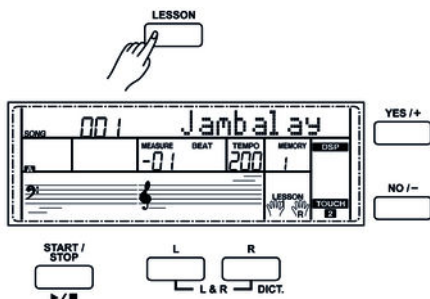
Press the *[LESSON]* button to enter the Lesson mode. *'LESSON 1'* appears on the display. In this mode, it is only rated whether you play the notes at the right time, but not whether you hit the right notes.

1. ▶ Press the *[START/STOP]* button, to start practising.

2. ▶ If you have selected *'R'* the right hand voice is muted and you have to play the right hand yourself. As long as you are in time, you will hear the right hand voice. If you have selected *'L'* the left hand voice is muted and you have to play the left hand yourself. As long as you are in time, you will hear the left hand voice. Are both *'L'* and *'R'* selected the voices for both hands are muted. You then have to play in time with both hands.

3. ▶ After completing the exercise, you will learn the result.

Lesson 2 - hitting the right notes
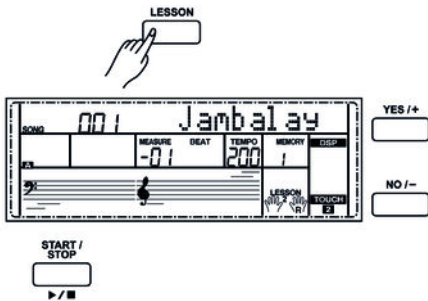
Press the *[LESSON]* button again to enter the Lesson mode 2. *'LESSON 2'* appears on the display. In this mode, it is only rated whether you hit the right notes, but not whether you play them at the right time. The practising song continues only when you play the right note.

1. ▶ Press the *[START/STOP]* button, to start practising.

2. ▶ After completing the exercise, you will learn the result.

Lesson 3 - hitting the right notes at the right time.
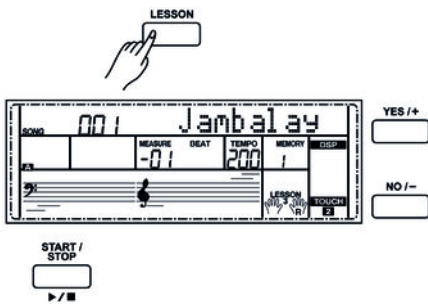
Press the *[LESSON]* button again to enter the Lesson mode 3. *'LESSON 3'* appears on the display. In this mode, it is rated whether you play the right notes at the right time. The practising song continues only when both is correct.

1. ▶ Press the *[START/STOP]* button, to start practising.

2. ▶ After completing the exercise, you will learn the result.

8.3 Metronome
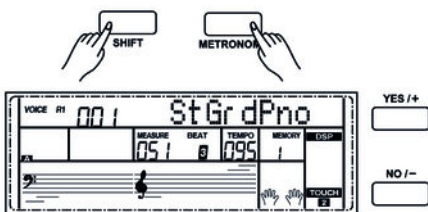
Press the *[SHIFT]* and *[METRONOME]* buttons simultaneously to turn the Metronome on or off. You can select the beat in the functions menu.

If the Style mode is disabled, the beat set in the function menu is applied after turning on the metronome. If the Style mode is enabled, the beat of the current style is applied.

The metronome can be activated along with the style. If the style plays first, the metronome will be enabled with the next bar. On the other hand, the metronome responds instantly to the first beat of the style.

8.4 Piano mode
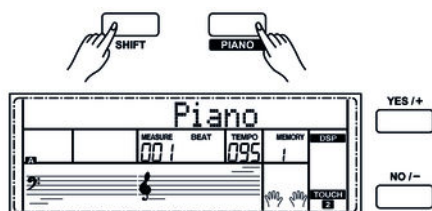
Press the *[SHIFT]* and *[PIANO]* buttons simultaneously to enable normal piano playing mode. The entire keyboard sounds with the piano voice.

8.5 Dual mode
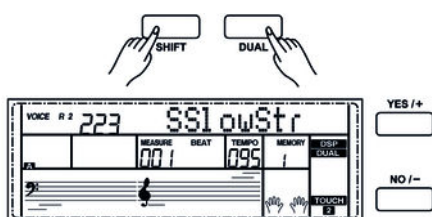
In Dual mode, you can play two voices simultaneously.

1. Press the *[SHIFT]* and *[DUAL]* buttons simultaneously to enable DUAL mode. The indicators *'VOICE R2'* and *'DUAL'* then light simultaneously on the display. The number and the name of the voice R2 appear on the display.

2. Another second voice can be selected using the direct select buttons, the *[+/YES]* and *[–/NO]* buttons or the jog dial.

3. Press the *[DUAL]* button again to exit Dual mode. *'VOICE R2'* is being disabled and you only hear the voice set for *'VOICE R1'*. The indicators *'VOICE R2'* and *'DUAL'* turn off.

> *When the keyboard is split, the Dual mode affects only the keys to the right of the claviature split point. In the area to the left of the split point, chords are supposed to be played.*

8.6 Split mode
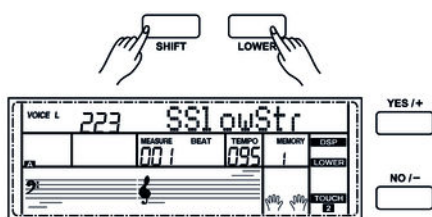
With this function, you can assign different voices to certain keyboard areas.

1. Press the *[SHIFT]* and *[LOWER]* buttons simultaneously to enable SPLIT mode. The indicators *'VOICE L'* and *'LOWER'* then light simultaneously on the display. The number and the name of the left hand voice appear on the display.

2. Press the *[+/YES]* or *[–/NO]* buttons or turn the jog dial to select a desired left-hand voice.

3. Press the *[SHIFT]* and *[LOWER]* buttons simultaneously to quit SPLIT mode. The indicators *'VOICE L'* and *'LOWER'* turn off.

> *The right hand voice is not affected by the selection for the left hand voice.*

8.7 TWINOVA

In TWINOVA mode, the keyboard is divided into two areas with the same voice and the same pitch.

1. ▶ **Voice selection**

First, select the desired voice (see ↪ *Chapter 8.8 'Selecting voices ' on page 36*).

2. ▶ **Enabling TWINOVA**

Press the *[TWINOVA]* button to enter TWINOVA mode. The LED *'TWINOVA'* lights.

3. ▶ **Split point setting**

See .

4. ▶ **Octave area setting**

Press the *[OCTAVE]* button. The display shows the current setting. Adjust the octave range with the buttons *[YES/+]* or *[NO/−]* or with the jog dial.
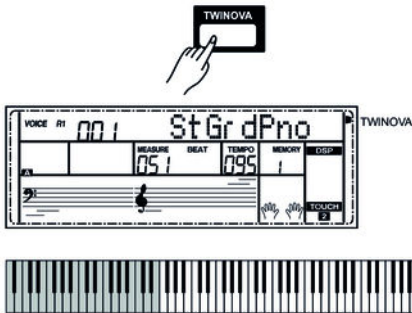
8.8 Selecting voices

The digital piano offers 500 voices in total.

1. ▶ Press the *[VOICE]* button or one of the direct selection buttons in the *[VOICES]* section to activate the VOICE mode. *'VOICE R1'* then lights on the display. The number and the name of the currently assigned right hand voice appear on the display.

2. ▶ To select other voices, press one of the direct selection buttons, *[+/YES]* or *[−/NO]* or turn the jog dial.
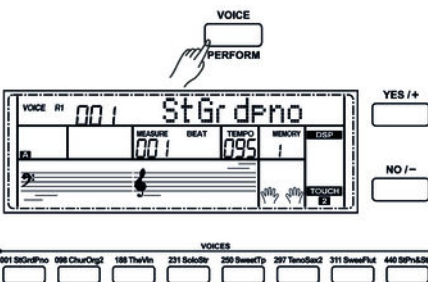
> *If you activate the VOICE mode with the [VOICE] button, the display will show 'R1' (right-hand voice). By repeatedly pressing the [VOICE] button, you successively enable the modes 'R2' (second right hand voice in Dual mode), 'L' (left hand voice) and again 'R1' (right hand voice).*

8.9 Harmony mode
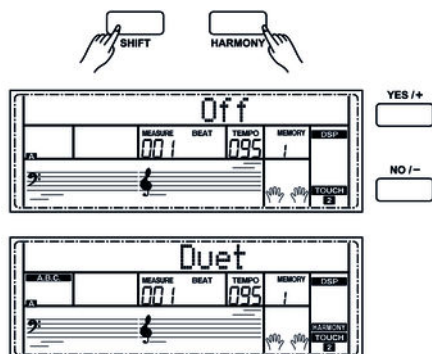
In harmony mode, appropriate harmonic frequencies are automatically added to the notes played.

1. ▶ **Enabling Harmony mode**

   Press *[SHIFT]* and *[HARMONY]* simultaneously to enter the Harmony mode. The display shows the standard value *'Off'*.

2. ▶ **Preset selection**

   See

8.10 Playing with accompaniment

The digital piano offers a total of 200 Styles. By default, Style *'001'* is set.

8.10.1 Style selection
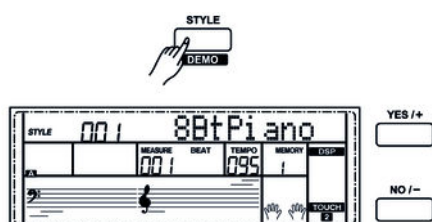
1. ▶ Press the *[STYLE]* button or one of the direct selection buttons in the *[STYLES]* section to activate the STYLE mode. *'STYLE'* then lights on the display. The number and the name of the current Style appear on the display.

2. ▶ To select other styles, press one of the direct selection buttons, *[+/YES]* or *[–/NO]* or turn the jog dial.

8.10.2 Playing Styles, Chord mode
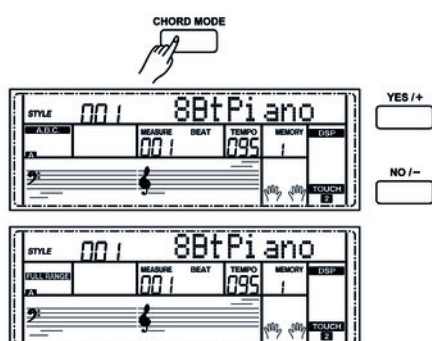
1. ▶ Instant start

   Push the *[START/STOP]* button to start the style.

2. ▶ Chord mode

   Press the *[CHORD MODE]* button once to activate the one-finger mode. The LED *'A.B.C.'* lights. The area to the left of the split point is now regarded as the chord area. If you play a chord with one finger, bass and chord sound simultaneously.

   Press the *[CHORD MODE]* button twice to activate the FULL RANGE mode. The *'FULL RANGE'* LED lights. The chord area now covers the entire claviature.

3. ▶ SYNC START

Press the *[SYNC START]* button to activate the sync start mode. When you now press one of the piano keys in the chord area, Style accompaniment starts synchronously. Accompaniment is being automatically adjusted on chord changes.

8.10.3 Tempo
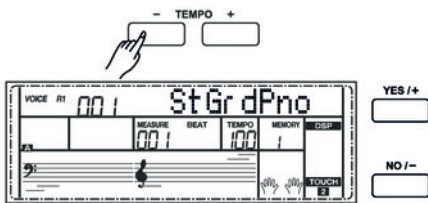
All preprogrammed Styles contain certain Tempo information. These presets can be adjusted at any time.

1. ▶ Press the *[TEMPO+]/[TEMPO−]* buttons or turn the jog dial to adjust the tempo of a style.

2. ▶ Press the *[TEMPO+]/[TEMPO−]* buttons simultaneously, then the tempo is reset to the factory default setting.

> ⓘ – *When Style is not activated, the tempo is automatically changed along with the style to the default value.*
> – *When Style is activated, the tempo is not changed by the style you select.*

8.10.4 Mixer
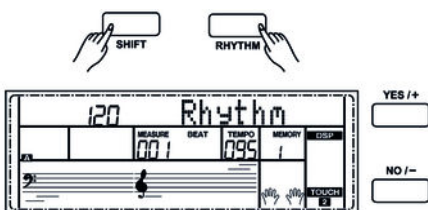
This menu is used to adjust the volume of the various style elements.

1. ▶ Press the *[SHIFT]* and *[RHYTHM]* buttons simultaneously to open the mixer menu. The display shows the option *'Rhythm'* and the current volume of the element.

2. ▶ Use the buttons *[+/YES]* or *[−/NO]* or the jog dial to adjust the volume in a range from 0 … 127.

3. ▶ Repeatedly press the *[SHIFT]* and *[RHYTHM]* buttons to successively call up the options *'Bass'*, *'Chord'*, *'Lower'* and *'Upper'*. The display shows the currently active option and the volume of the element.

4. ▶ Use the buttons *[+/YES]* or *[−/NO]* or the jog dial to adjust the volume in a range from 0 … 127.

8.11 Auto Accompaniment
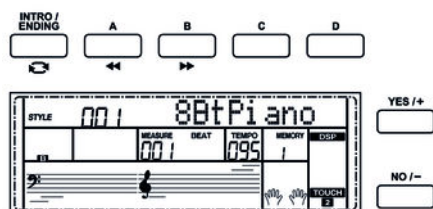
The accompaniment function is controlled via four parameters: INTRO, MAIN (A, B, C, D), FILL (A, B, C, D) and ENDING.

1. ▶ **INTRO**

   To insert an intro, press the *[INTRO/ENDING]* button before beginning to play. Depending on the selected Style the rhythm starts with two to four bars, followed by the main part.

2. ▶ **MAIN (A, B, C, D)**

   The main part consists of an accompaniment pattern with different sections and is repeated until you enter a new song section (FILL or ENDING). The individual sections of the main part are selected via the buttons *[A]*, *[B]*, *[C]* and *[D]*.

3. ▶ **FILL (A, B, C, D)**

   Use the buttons *[A]*, *[B]*, *[C]* and *[D]* to insert four different fill measures.

4. ▶ **ENDING**

   If you press the *[INTRO/ENDING]* button while Auto Accompaniment is activated, an ending part suitable for the Accompaniment is started, finishing the song.

8.12 Accompaniment track volume, muting
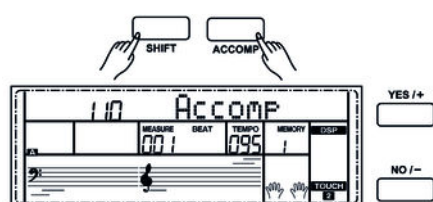
1. ▶ Push the *[SHIFT]* and *[ACCOMP]* buttons simultaneously. The display shows the current volume setting of the accompaniment track.

2. ▶ Use the buttons *[YES/+]* and *[NO/–]* or the jog dial to adjust the volume of the accompaniment track in a range from 0 … 127.

3. ▶ Pressing the *[YES/+]* and *[NO/–]* buttons simultaneously mutes the accompaniment track.

4. ▶ Press the *[YES/+]* and *[NO/–]* buttons again simultaneously to unmute the accompaniment track.

8.13 Performance Assistant

The 'Performance Assistant' is a playing aid, which allows you to simulate different instruments on the claviature.
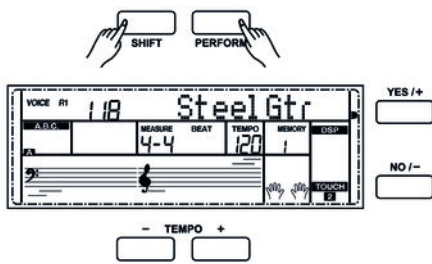
1. ▶ Press the *[SHIFT]* and *[PERFORM]* buttons simultaneously to open the playing aid.

   GUITAR mode is enabled by default. Use the buttons *[YES/+]* and *[NO/–]* or the jog dial to select a voice.

2. ▶ Adjust the Tempo using the *[TEMPO +]* and *[Tempo –]* buttons.

3. ▶ Adjust the time signature as described under .

8.13.1 GUITAR mode

In this mode, you can simulate a guitar sound on the claviature. The table shows the various play areas.
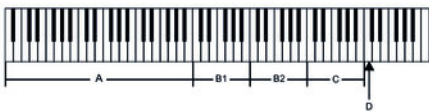
Chord area A

This area includes the keys A0 to B3 of the claviature.

The chord type appears in the display. The root of the guitar chord sounds.

Area B1

This area includes the white keys C4 to B4 of the claviature.

Once the chord type is displayed, you can play several figures of broken chords with the white keys in this area. While playing, you also have the possibility to vary the chord played in the chord area.

Area B2

This area includes the white keys C5 to A6 of the claviature.

Once the chord type is displayed, you can play a solo track with the white keys in this area. While playing, you also have the possibility to vary the chord played in the chord area.

Rhythm area C

This area includes the white keys C6 to G6 of the claviature.

Once the chord type is displayed, you can play a rhythm track with the white keys in this area. While playing, you also have the possibility to vary the chord played in the chord area.

Shift D

Key C7. Press this button to shift upwards.

With keys A6 or B6, you have the opportunity to complete a phrase with a suitable ending.

While playing, you can generate various reverb effects with the black keys in the areas B1 and B2.

8.13.2 PIANO mode

After enabling the playing aid, use the *[YES/+]* or *[NO/–]* buttons or the jog dial to switch to the PIANO mode.

In this mode, the entire claviature sounds with the piano voice. The table shows the various play areas.

Play basic chords in area A and an accompanying melody in areas B and C an.

Keys A6, B6 and C7 give you the opportunity to complete a phrase with a suitable ending.

8.14 Chord detection

By default, the 'Auto Bass Chord' is disabled. Press the button *[CHORD MODE]* to activate this 'A.B.C.' function. The area to the left of the split point is already known as the chord area. When you now play a chord, both bass and chord voices will sound together.

> *As the A.B.C. chord detection is based on the root note of the chord, some chords that could be played according to the chord dictionary can not be detected by A.B.C., such as B6, B_b6, $B_b6(9)$, B6(9), Baug, $B_b$aug, B_bm6, Bm6, Adim7, $B_b$dim7, Bdim.*

Two ways to detect a chord: Single and multi-finger mode.

If the chord is played on base of the illustration for multi-finger chords below, it will be detected as a 'multi-fingered' chord. If not, it will be detected as a 'single-finger' chord.

■ Single-finger chords

With this method, you can play chords with only one, two or three fingers within the capabilities of the auto accompaniment. Here we show you some examples of single finger chords (C, Cm, C7 and Cm7).
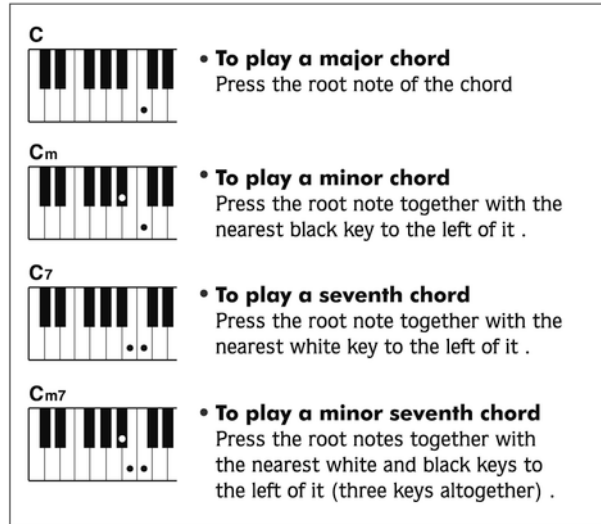
> ⓘ *When the A.B.C. function is activated, press the keys to the left of the split point. The chords are detected as single-finger chords.*

■ Multi-finger chords

With this method, you can play chords with normal fingering within the capabilities of the auto accompaniment. Here we show you 32 chords using the example of C chords.

The notes in brackets are optional; the chords will also be recognised without them.
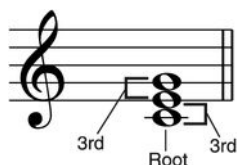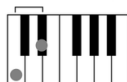
■ Chord basics

A chord consists of three or more notes played together. The most commonly used chord is the triad consisting of three notes: Root, third and fifth of the corresponding scale. The C major chord for example is formed from the notes C (root), E (the third note of the C major scale), and G (the fifth note of the C major scale). In the C major chord shown, the lowest note is the root (this is the basic form of the chord - if you play other notes of the chord as the lowest note, this is called 'chord inversion'). The root is the central sound of the chord on which the other chord notes are built upon. The interval between adjacent notes and the root determines whether the result is a major or minor third.

■ Chord structure

The lower interval in our triad (between root and third) determines whether the result is a major or minor triad. In addition, we can shift the highest note by a half step up or down to produce two additional chords.

The basic characteristic of the triad remains even if we change the order of the notes to create different inversions. Consecutive chords can be softly connected in a chord progression, e.g. by choosing suitable chord inversions (also called 'voicings').

Major chord — Minor chord — Augmented chord — Diminished chord

■ Chord names

Chord names will tell you everything you need to know about a chord. Through the chord name, you know the root, whether it is a major, minor, or diminished chord, whether a large or flatted seventh is needed and what changes or tensions are used - all at a glance.

■ Some chord types

8.15 Historic tunings

With this function, you can experiment with different historical tunings when playing certain musical genres that have not been composed based on equal temperament.

1. ▷ Press the *[SCALE]* button to switch to mode Historic Tunings. *'SCALE'* lights.

2. ▷ Hold down the *[SCALE]* button to open the selection of historic tunings.

As soon as the *'SCALE'* indicator flashes, you can use the *[YES/+]* and *[NO/-]* buttons to select one of the following settings: Pythagoras, pure major, pure minor, middle tone, Werckmeister or Kirnberger.

3. ▷ Use piano buttons C7 … B7 to select the root of the selected tuning.

4. ▷ Press *[SCALE]* again to exit the mode 'Historic tunings'.

8.16 One Touch Setting
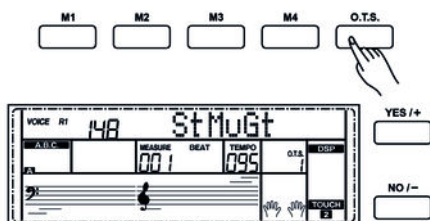
One Touch Setting (O.T.S. or one-key operation) is a convenient function that allows you to immediately reconfigure all settings with just one single key press. This is about rhythm-based compilations of instrument voices. With this function, four parameter types (M1 to M4) can be loaded.

1. ▸ Press the *[O.T.S.]* button to enter this mode. Press one of the keys *[M1]* to *[M4]*, then the device loads the corresponding parameter types that match the current Style. The ABC mode is automatically turned on at that.

2. ▸ Press one of the keys *[M1]* to *[M4]* that provides the desired settings.

3. ▸ Press the *[O.T.S.]* button again to exit O.T.S. mode.

4. ▸ The default parameters stored in O.T.S. are:

- Voice R1, R2, L on / off
- Change voice R1, R2, L
- Volume R1, R2, L
- Chorus level voice R1, R2, L
- Reverb level voice R1, R2, L

8.17 Record, playback, delete

The digital piano lets you record three user songs that can contain six tracks each (one accompaniment track and five melody tracks).

8.17.1 Song recording
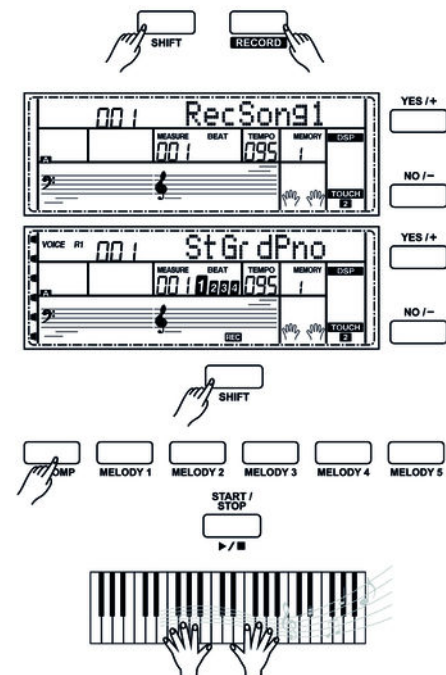
1. ▶ Press the *[SHIFT]* and *[RECORD]* buttons simultaneously to select a memory location. The display shows *'RecSong1'* and the current memory location.

2. ▶ Use *[+/YES]* or *[–/NO]* buttons or the jog dial to select a free memory location for the recording.

3. ▶ Record stand-by

   Press the *[SHIFT]* and *[RECORD]* buttons simultaneously again to enable the recording mode. *'REC'* lights up in the display. At the same time, a free track is automatically selected for recording and the associated track indicator (*[MELODY 1]* to *[MELODY 5]* or *[ACCOMP]*) flashes. The tracks are selected in the order *[MELODY 1]* to *[MELODY 5]*, *[ACCOMP]*. If no free track is available, *[MELODY 1]* is going to be selected. Press one of the buttons *[MELODY 1]* to *[MELODY 5]* or *[ACCOMP]* to select the track to which you want to record.

4. ▶ Start recording

   Press the *[START/STOP]* button or one of the piano keys to start recording.

   > ⓘ *When you start recording, you may overwrite data on the selected track.*

5. ▶ Selecting tracks

   As you select tracks the buttons can have three different states: They flash, are lit or off.

   ■ A **flashing** button indicates that the track has been selected for recording.
   ■ A **lit** button indicates that this track already contains data. These data will be played during recording to another track.
   ■ If a button is **off** there is no data on this track or there is data that is not going to be played during recording.

   Press one of the buttons *[MELODY 1]* to *[MELODY 5]* or *[ACCOMP]* to select the desired track. The corresponding track is then enabled with the condition described above.

   > ⓘ – *You can only record one melody track at a time. However, you can record the accompaniment track along with one of the melody tracks.*
   > – *A style can only be recorded if it is activated by the [ACCOMP] button.*

6. ▶ Stopping recording

   Press the *[SHIFT]* and *[RECORD]* buttons again to stop the recording. If you record an accompaniment track, press the *[INTRO/ENDING]* button to stop recording after the ending part. When the memory is full the recording stops automatically. In this case, *'Rec_Full'* appears on the display.

8.17.2   Playing a recording
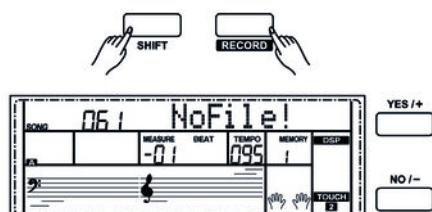
1. ▶ After recording, simultaneously press the *[SHIFT]* and *[RECORD]* buttons. The digital piano changes to Song mode, the last recording is automatically played as a loop.

2. ▶ Press the *[SONG]* button to play all tracks as an endless loop, or use the *[+/YES]* and *[–/NO]* buttons to select a specific track for playback.

3. ▶ Push the button *[PLAY/STOP]* to terminate playback.

> ℹ️ *If there is no recording and you press the [PLAY/STOP] button, 'NoFile!' will appear briefly in the display.*

8.17.3   Delete recording
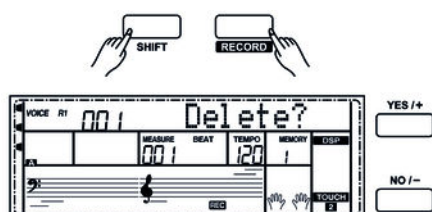
1. ▶ Deleting individual sections of the current recording.

   Hold down the *[SHIFT]* and *[RECORD]* buttons simultaneously for two seconds. Simultaneously press *[SHIFT]* and *[ACCOMP]* or *[MELODY 1 … 5]* to delete the accompaniment or one of the melody tracks of the recording. The indicator of the selected track lights on the display. The confirmation prompt *'Delete?'* appears on the display. Confirm with *[+/YES]*.

2. ▶ Deleting a single recording

   In Song mode, use the *[+/YES]* or *[–/NO]* buttons to select the recording you want to delete. Confirm the confirmation prompt with *[+/YES]*. Press *[–/NO]* to cancel the deleting.

3. ▶ Deleting all recordings

   Turn off the digital piano. Simultaneously press the *[RECORD]* and *[SONG]* buttons and turn the digital piano back on. All user recordings are going to be deleted without a prompt.

8.18   Memory

You can store 32 control panel configurations in the memory of the digital piano and recall the data any time, if required.

8.18.1   Memory banks

A total of eight memory banks are available, each with four memory locations (M1 to M4).
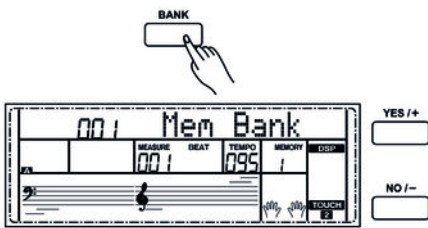
1. ▶ Press the *[BANK]* button. *'Mem Bank'* appears on the display.

2. ▶ Use the jog dial or the *[+/YES]* or *[–/NO]* buttons to select the desired memory bank.

8.18.2 Load / save parameters
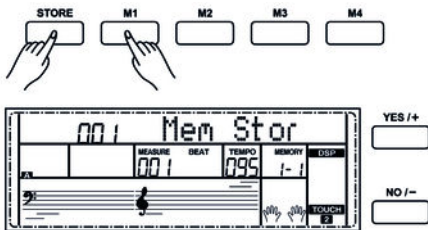
1. ▶ Hold the *[STORE]* button pressed and simultaneously press one of the *[M1]* to *[M4]* buttons. The current settings are then stored in the respective memory location (M1 to M4). Please note that any data previously stored there will be deleted.

2. ▶ Press one of the *[M1]* to *[M4]* buttons. The saved settings are then loaded from the corresponding memory and replace the current settings thereby.
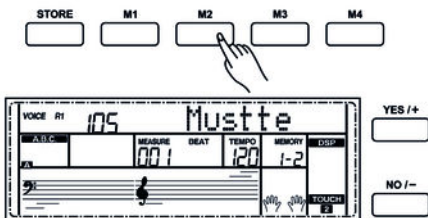
In O.T.S. mode, no settings can be loaded from the device memory.

8.18.3 Lock function
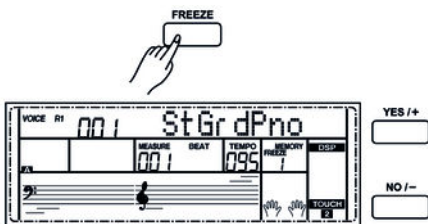
With the locking function, you can prevent the digital piano's current settings for rhythm and tempo from being overwritten with saved settings.

1. ▶ Press the *[FREEZE]* button to activate the lock function. *'FREEZE'* lights up on the display.

2. ▶ Press the *[FREEZE]* button again to deactivate the lock function. The *'FREEZE'* display turns off.

8.19 Song album

The digital piano offers a song album with a total of 120 stored songs. When you call up a song from the album all relevant supporting parameters are loaded automatically.
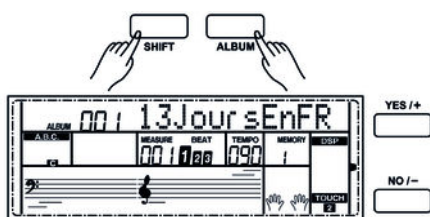
1. ▶ Press the *[SHIFT]* and *[FUNCTION +/–]* buttons simultaneously to open the song album.

2. ▶ Use the *[+/YES]* or *[–/NO]* buttons to select the desired song.

3. ▶ To close the song album, press one of the direct selection buttons *[VOICE]* or *[STYLE]*.

8.20 Chord dictionary
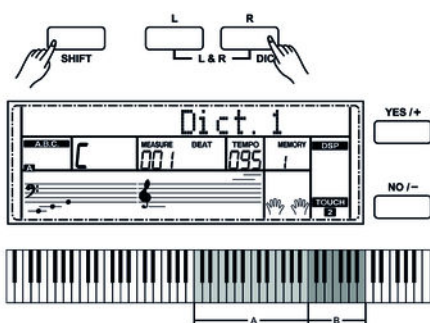
The Chord dictionary is basically a built-in 'Chord book' assisting you to find the right tones of a chord if you e.g. know only the chord name, but not how to play it.

1. ▶ DICT 1 (chord learning mode)

Press the buttons *[SHIFT]* and *[DICT.]* simultaneously to call up the *'DICT.1'* mode. In this mode, the keys from C4 on are used to assign the chord type, and the keys from C6 to assign the root note. If you have pressed the keys for chord type and root note, the display shows the chord name and the individual notes in the notation system.

For example, If you want to play a Cm7 chord, press the C6 key (root note C in the Cm7 chord). You will hear no sound, but the root note is displayed.

Press the A4 key (chord type for minor-seventh chord, 'm7'). You will hear no sound, but the chord name and the notes you should play for the specified chord appear in the display.

2. ▶ DICT 2 (chord testing mode)

Press the buttons *[SHIFT]* and *[DICT.]* simultaneously again to call up the *'DICT.2'* mode. The display shows a randomly generated chord name, but not its individual notes in the notation system. If you play the right chord within three seconds, the next randomly generated chord name appears. If this does not happen, the individual notes of the chord in the notation system appear automatically in the display.
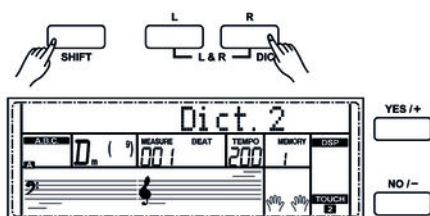
In the chord dictionary, the 12 root notes and 24 chord types are presented as follows:

Key names	Root note	Key names	Root note
C6	C	F$^\#$6	F$^\#$/G$_b$
C$^\#$6	C$^\#$/D$_b$	G6	G
D6	D	A$_b$6	G$^\#$/A$_b$
E$_b$6	D$^\#$/E$_b$6	A6	A
E6	E	B$_b$6	A$^\#$/B$_b$
F6	F	B6	B

Key names	Chord type	Key names	Chord type
C4	M	C5	7_b9
C$^{\#}$4	M(9)	C$^{\#}$5	7(9)
D4	6	D5	$7(^{\#}9)$
E$_b$4	mM7	E$_b$5	7_b13
E4	M7	E5	7(13)
F4	m	F5	$7(^{\#}11)$
F$^{\#}$4	m(9)	F$^{\#}$5	dim7
G4	m6	G5	dim
A$_b$4	m7(9)	A$_b$5	7aug
A4	m7	A5	aug
B$_b$4	$m7_b5$	B$_b$5	7sus4
B4	7	B5	sus4

8.21   MIDI functions

MIDI stands for 'Musical Instrument Digital Interface' and represents the standard interface between a computer and electronic instruments.

You can exchange MIDI data with other MIDI devices via the MIDI and USB interfaces of the digital piano.

8.22   USB connection
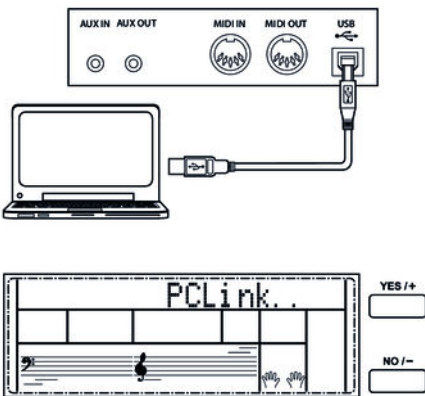
Turn on the computer first. Connect the USB port on the rear panel of the digital piano using a standard USB cable (not included) to the USB port on your computer. Then turn the digital piano on.

After a successful connection, the display of the digital piano shows *'PCLink..'*.

Now you have the option to load up to three MIDI files from your computer as user songs into the digital piano or to save user styles and recordings externally.

For additional applications you may need a suitable software for recording and editing music (not included).

9 Troubleshooting

Problem	Possible causes and solutions
You hear a 'pop' sound from the speakers when switching the digital piano on and off.	This is normal. No need to worry.
No sound can be heard when playing the piano.	Make sure that the volume control is set appropriately.
	Check if headphones are plugged into the headphone output 2. Connecting headphones will mute the speakers of the digital piano.
Malfunction occurs when using a mobile phone.	Using a mobile phone near the digital piano can cause interference. To prevent this, turn off the mobile phone or use it only at a safe distance.

10 Voice list

No.	Name	LCD		No.	Name	LCD
Piano				030	Velocity Crossfade Electric Piano	VeCrosEP
001	Stereo Grand Piano	StGrdPno		031	Layered Electric Piano 1	LayerEp1
002	Acoustic Grand Piano (wide) 1	GrandPnW		032	Layered Electric Piano 2	LayerEp2
003	Acoustic Grand Piano (dark)	GrandPnD		033	Nylon Electric Piano	NylonEP
004	Octave Piano 1	OctPno1		034	Warm Electric Piano	WarmEp
005	Octave Piano 2	OctPno2		035	Grand Harpsichord	GraHarps
006	Piano & Strings	Pno&Str		036	Harpsichord 1	Harpsi
007	Piano & Choir	Pno&Cho		037	Harpsichord 2	Harpsi2
008	Acoustic Grand Piano	GrandPno		038	Harpsichord (wide)	HarpsiW
009	Stereo Bright Piano	StBrtPno		039	Harpsichord (octave mix) 1	HarpsiO
010	Bright Acoustic Piano	BritePno		040	Harpsichord Release	HarpsiR
011	Bright Acoustic Piano (wide) 1	BritePnW		041	Harpsichord (with key off)	HarpsiOf
012	Chorus Piano	ChoruPno		042	Clavi 1	Clavi
013	Electric Grand Piano	E.Grand		043	Clavi 2	Clavi2
014	Electric Grand Piano (wide)	E.GrandW		044	Clavi (wide) 1	ClaviW1
015	Stereo Honk-Tonk	StHonkTo		045	Clavi (wide) 2	ClaviW2
016	Honky-tonk Piano	HnkyTonk		046	Clavi Wah	ClaviWa
017	Honky-tonk Piano (wide) 1	HnyTonkW		047	Pulse Clavi	PluseClv
018	Stereo Hard Electric Piano	StHarEp		**Chromatic Percussion**		
019	Detuned Electric Piano 1	DetunEP1		048	Celesta 1	Celesta
020	Detuned Electric Piano 2	DetunEP2		049	Celesta 2	Celesta2
021	Electric Piano 1	E.Piano1		050	Birght Celeasta	BirCelea
022	Electric Piano 2	E.Piano2		051	Celesta & Sine	Celes&Si
023	Electric Piano (wide) 1	EPnoW1		052	Reecho Bell	RechBell
024	Electric Piano (wide) 2	EPnoW2		053	Celesta & Music Box	Celes&MB
025	EP legend	EPLegend		054	Glockenspiel 1	Glocken
026	EP Phase	EPPhase		055	Glockenspiel 2	Glocken2
027	60's Electric Piano	60'sEP		056	Music Box 1	MusicBox
028	Electric Piano 1 (velocity mix)	E.PnoV1		057	Music Box 2	MusicBo2
029	Electric Piano 2 (velocity mix)	E.PnoV2		058	Music Box 3	MusicBo3

No.	Name	LCD		No.	Name	LCD
059	Toy Box	ToyBox		088	Percussive Organ 1	PercOrgn
060	Music Box & Harp	Mbx&Harp		089	Percussive Organ 2	PercOrg2
061	Stereo Vibrapho	StVibes		090	Light Click Organ	LClickOr
062	Rigid Vibraphone	RigiVibe		091	Detuned Percussive Organ	DePerOrg
063	Vibraphone 1	Vibra		092	Stereo Rotary Organ	StRotaOr
064	Vibraphone 2	Vibra2		093	Rock Organ	RockOrgn
065	Vibraphone (wide) 1	VibraW		094	Rotary Organ	RotaOrgn
066	Vibraphone (wide) 2	VibraW2		095	Slow Rotary Organ	SloRotOr
067	Vibraphone & Bell	Bell&Vib		096	Detuned Church Organ	DeChuOrg
068	Marimba 1	Marimba		097	Church Organ 1	ChurOrgn
069	Marimba 2	Marimba2		098	Church Organ 2	ChurOrg2
070	Marimba (wide)	MarimbaW		099	Church Organ (octave mix)	ChurOrgO
071	Stereo Marimba	StMarim		100	Reed Organ	ReedOrgn
072	Marimba & Vibraphone	Mar&Vib		101	Puff Organ	PuffOrgn
073	Xylophone 1	Xylophon		102	Accordion 1	Acordion
074	Xylophone 2	Xylopho2		103	Accordion 2	Acordin2
075	Tubular Bells	TubulBel		104	Accordion 3	Acordin3
076	Church Bell	ChurBell		105	Mustte	Mustte
077	Carillon	Carillon		106	Accord It Solo	AccordSo
078	Dulcimer	Dulcimer		107	Sweet Harmonica	SwetHarm
079	Santur	Santur		108	Harmonica 1	Harmnica
Organ				109	Harmonica 2	Harmnic2
080	Drawbar Organ 1	DrawOrgn		110	Tango Accordion	TangoAcd
081	Drawbar Organ 2	DrawOrg2		111	Acoustic Guitar (nylon) 1	NylonGtr
082	Soft Stereo Drawbar Organ	SfDrawOr		112	Acoustic Guitar (nylon) 2	NylonGt2
083	Mellow Drawbar Organ	MellDrOr		113	Acoustic Guitar (nylon + key off)	NylGtrOf
084	Detuned Drawbar Organ 1	DeDraOrg		114	Ukulele	Ukulele
085	Detuned Drawbar Organ 2	DeDraOr2		115	Velocity Nylon Guitar	NylnGtVe
086	Italian 60's Organ	60'sOrgn		116	Chorus Nylon Guitar	ChoNyGt
087	1970 Percussive Organ	1970PcOr		117	Bright Nylon Guitar	BrNyGt

No.	Name	LCD		No.	Name	LCD
118	Acoustic Guitar (steel) 1	SteelGtr		148	Stereo Muted Guitar	StMuGt
119	Acoustic Guitar (steel) 2	SteelGt2		149	Guitar Pinch	GtPinch
120	Steel Guitar with Body Sound	SteelBdy		150	Overdriven Guitar	Ovrdrive
121	Tremolo Steel Guitar	TremGt		151	Distortion Guitar 1	DistGtr
122	Mandolin	Mandolin		152	Distortion Guitar 2	DistGt2
123	12-Strings Guitar	12StrGtr		153	Distortion Guitar (with feedback) 1	FeedbkGt
124	Chorus Steel Guitar	ChoSteGt		154	Distorted Rhythm Guitar	DistRyth
125	Nylon & Steel Guitar	Ny&SteGt		155	5th Distortion	5thDist
126	Stereo Steel Guitar	StSteGt		156	Stereo Distorted Guitar	StDistor
127	Steel Guitar Bend	GtBend		157	Guitar Feedback	GtrFedbk
128	Steel Guitar Harmonics	GtHarm		158	Guitar Harmonics	GtrHarmo
129	Velocity Steel Guita 1	VelSte1		**Bass**		
130	Velocity Steel Guita 2	VelSte2		159	Acoustic Bass 1	AcoBass
131	Velocity Steel Guita 3	VelSte3		160	Acoustic Bass 2	AcoBass2
132	Electric Guitar (jazz) 1	JazzGtr		161	Jazz Style	JazzSty
133	Electric Guitar (jazz) 2	JazzGt2		162	A.Bass & Mute G.T.	Bs&GtMu
134	Electric Guitar (pedal steel)	PedalGtr		163	Resonant Bass	ResBass
135	Mellow Guitar	MelloGt		164	Wah Bass 1	WahBass1
136	Velocity Jazz Guitar	JazzGtVe		165	Electric Bass (finger) 1	FngrBass
137	Jazz Guitar Detuned	JazzGtDt		166	Electric Bass (finger) 2	FngrBas2
138	Mid Tone Guitar	MidTonGt		167	Electric Bass (finger) 3	FngrBas3
139	Electric Guitar (clean) 1	CleanGtr		168	Finger Slap Bass	FngrSlap
140	Electric Guitar (clean) 2	CleanGt2		169	Wah Finger Bass	WahFnBs
141	Stereo Clean Guitar	StCleGtr		170	Electric Bass (pick) 1	PickBass
142	Velocity Clean Guitar	CleGtVel		171	Electric Bass (pick) 2	PickBas2
143	Electric Guitar (detuned clean)	DetClnGt		172	Mute Pick Bass	MuPkBass
144	Electric Guitar (muted velo-sw)	MutVelGt		173	Fretless Bass 1	Fretless
145	Electric Guitar (muted)	MutedGtr		174	Fretless Bass 2	Fretlss2
146	Electric Guitar (funky cutting)	FunkGt		175	Slap Bass 1	SlapBas1
147	Jazz Man	JazzMan		176	Slap Bass 2	SlapBas2

No.	Name	LCD		No.	Name	LCD
177	Slap Bass 3	SlapBas3		206	Pizzicato Strings 1	PizzStr
178	Slap Bass 4	SlapBas4		207	Pizzicato Strings 2	PizzStr2
179	Synth Bass 1	SynBass1		208	Octave Pizzicato	OctoPizz
180	Synth Bass 2	SynBass2		209	Orchestral Harp 1	Harp
181	Synth Bass 3 (resonance)	ResoBass		210	Orchestral Harp 2	Harp2
182	Synth Bass 4 (attack)	AtackBas		211	Yang Chin	YangChin
183	Synth Bass (warm)	WarmBass		212	Timpani 1	Timpani
184	Clavi Bass	ClavBass		213	Timpani 2	Timpani2
185	Hammer	Hammer		**Ensemble**		
186	Synth Bass (rubber)	RubbBass		214	The Strings	TheStr
187	Attack Pulse	AtackPls		215	String Ensembles 1	Strings1
Strings & Orchestral Instruments				216	String Ensembles 2	Strings2
188	The Violin	TheVin		217	Synth Strings 1	SynStrs1
189	Violin 1	Violin		218	Synth Strings 2	SynStrs2
190	Violin 2	Violin2		219	Synth Strings 3 Synth Strings	SynStrs3
191	Violin (slow attack)	SlViolin		220	Synth Strings 4	SynStrs4
192	Soft Violin	SoftVin		221	Synth Strings 5	SynStrs5
193	Viola 1	Viola		222	Resonant Strings	ResonSt
194	Viola 2	Viola2		223	Stereo Slow Strings	SSlowStr
195	Viola 3	Viola3		224	Slow Strings	SlowStr
196	Cello 1	Cello		225	Strings and Brass	Str&Bras
197	Cello 2	Cello2		226	Legato Strings	LegatStr
198	Celloen 16'	Celloen		227	Orchestra	Orchstr
199	Chamber Music	Chamber		228	Arco Strings	ArcoStr
200	Contrabass 1	Contrabs		229	60's Strings	60'sStr
201	Contrabass 2	Contrbs2		230	1970 Strings	70'Str
202	Tremolo Strings 1	TremStr		231	Solo Strings	SoloStr
203	Tremolo Strings 2	TremStr2		232	Choir Aahs 1	ChoirAah
204	Slow Tremolo Strings 1	SlwTrSt1		233	Choir Aahs 2	ChoirAh2
205	Slow Tremolo Strings 2	SlwTrSt2		234	Choir Aahs 3	ChoirAh3

No.	Name	LCD		No.	Name	LCD
235	Stereo Choir Aahs	StChoir		264	Stereo French Horn	StFrHorn
236	Strings & Choir	StrChoir		265	Horn Orchestra	5thHornO
237	Humming	Humming		266	Brass Section 1	Brass
238	Voice Oohs	VoiceOoh		267	Brass Section 2 (octave mix)	Brass2
239	Analog Voice	AnaVoice		268	Brass Section 3	Brass3
240	Synth Voice	SynVoice		269	Brass Section 4	Brass4
241	Bass Hit Plus	BassHit		270	Brass Section 5	Brass5
242	Orchestra Hit 1	OrchHit		271	Brass Swell	BrasSwel
243	Orchestra Hit 2	OrchHi2		272	Brass Band	BrasBand
244	Euro Hit	EuroHit		273	Bright Brass Section	BrBraSec
245	6th Hit	6thHit		274	Mute Brass Ensemble	MuteEns
Brass				275	Sforzato Brass	SfrzBras
246	Trumpet 1	Trumpet		276	Brass & Strings	Bras&Str
247	Trumpet 2	Trumpet2		277	Synth Brass 1	SynBras1
248	Trumpet 3	Trumpet3		278	Synth Brass 2	SynBras2
249	Dark Trumpet Soft	DarkTrp		279	Synth Brass 3	SynBras3
250	Sweet Trumpet	SweetTp		280	Synth Brass 4	SynBras4
251	Wah Trumpet	WahTp		281	Analog Synth Brass 1	AnaBras1
252	Trombone 1	Trombone		282	Analog Synth Brass 2	AnaBras2
253	Trombone 2	Trmbone2		283	Jump Brass	JumpBras
254	Bright Trombone	BritBone		284	Octave Synth Brass	SynBraOc
255	Strings & Trombone	Str&Trb		285	Synth Brass & Strings 1	SyBr&St1
256	Tuba 1	Tuba		286	Synth Brass & Strings 2	SyBr&St2
257	Tuba 2	Tuba2		287	Echo Brass	EchoBr
258	Soft Tuba	SoftTuba		**Reed**		
259	Muted Trumpet 1	MuteTrp1		288	Soprano Sax 1	SprnoSax
260	Muted Trumpet 2	MuteTrp2		289	Soprano Sax 2	SprnSax2
261	French Horn 1	FrHorn		290	Soprano Sax Soft	SopSaxSf
262	French Horn 2 (warm)	FrHorn2		291	Slow Soprano Sax	SlSopSax
263	French Horn 3	FrHorn3		292	Sweet Soprano Sax	SweSpSax

No.	Name	LCD		No.	Name	LCD
293	Alto Sax	AltoSax		321	Square	Square
294	Soft Alto Sax	SoftAlto		322	Lead 1b (sine)	SineLead
295	Super Alto Sax	SuprAlto		323	Square Lead 1	SquarLd1
296	Tenor Sax 1	TenorSax		324	Lead 1a (square 2)	SquarLd2
297	Tenor Sax 2	TenoSax2		325	Lead 2a (sawtooth 2)	SawLead2
298	Baritone Sax	BariSax		326	Lead 2d (sequenced analog)	SquAnaLd
299	Sweet Oboe	SwetOboe		327	Lead 2 (sawtooth)	SawLead1
300	Oboe 1	Oboe		328	Lead 2b (saw + pulse)	SawPlsLd
301	Oboe 2	Oboe2		329	Lead 2c (double sawtooth)	DubSawLd
302	English Horn 1	EngHorn		330	Lead 3 (calliope)	CaliopLd
303	English Horn 2	EngHorn2		331	Lead 4 (chiff)	ChiffLd
304	Woodwinds	Woodwind		332	Lead 5 (charang)	CharanLd
305	Bassoon 1	Bassoon		333	Lead 5a (wire lead)	WireLead
306	Bassoon 2	Basson2		334	Lead 6 (voice)	VoiceLd
307	Clarinet 1	Clarinet		335	Lead 7 (fifths)	FifthsLd
308	Clarinet 2	Clarine2		336	Lead 8 (bass + lead)	BassLead
Pipe				337	Lead 8a (soft wrl)	SftWrlLd
309	Piccolo	Piccolo		**Synth Pad**		
310	Flute	Flute		338	Pad 1 (new age)	NewAgePd
311	Sweet Flute	SweeFlut		339	Slow Square	SlowSqu
312	Recorder	Recorder		340	New Year Pad	NewYrPd
313	Sweet Pan Flute	SwPanFu		341	Pad 2 (warm)	WarmPad
314	Pan Flute	PanFlute		342	PWM Pad	PWMPad
315	Blown Bottle	Bottle		343	Pad 2a (sine pad)	SinePad
316	Shakuhachi	Shakhchi		344	Horn Pad	HornPad
317	Whistle 1	Whistle		345	Pad 3 (polysynth) 1	PolySyPd
318	Whistle 2	Whistle2		346	Click Pad	ClickPd
319	Ocarina	Ocarina		347	Analog Pad	AnaloPad
Synth Lead				348	Poly Pad	PolyPad
320	Lead 1 (square)	SquareLd		349	Pad 4 (choir)	ChoirPad

No.	Name	LCD		No.	Name	LCD
350	Pad 4a (itopia)	ItopiaPd		378	Shamisen	Shamisen
351	Pad 5 (bowed) 1	BowedPad		379	Koto	Koto
352	Pad 6 (metallic) 1	MetalPad		380	Taisho Koto	TaishoKt
353	Pan Pad	PanPad		381	Kalimba	Kalimba
354	Pad 7 (halo) 1	HaloPad		382	Bag Pipe	Bagpipe
355	Pad 7 (halo) 2	HaloPad2		383	Fiddle	Fiddle
356	Pad 8 (sweep) 1	SweepPad		384	Shanai	Shanai
357	Pad 8 (sweep) 2	SweePad2		**Percussive**		
358	Dipolar Pad	DipolPad		385	Tinkle Bell	TnklBell
359	Rising	Rising		386	Agogo	Agogo
360	Congregate	Congrega		387	Steel Drums	SteelDrm
Synth SFX				388	Woodblock	WoodBlok
361	FX 1 (rain)	FXRain		389	Castanets	Castanet
362	FX 2 (soundtrack)	Soundtrk		390	Taiko Drum	TaikoDum
363	Progenitor	Progenit		391	Concert Bass Drum	ConBasDm
364	FX 3a (synth mallet)	SynMalet		392	Melodic Tom 1	MelodTom
365	FX 3 (crystal)	Crystal		393	Melodic Tom 2 (power)	MeldTom2
366	FX 4 (atmosphere)	Atmosphr		394	Synth Drum	SynDrum
367	Warm Air	WarmAir		395	Rhythm Box Tom	RhythBox
368	FX 5 (brightness)	Bright		396	Electric Drum	ElecDrum
369	FX 6 (goblins)	Goblins		397	Reverse Cymbal	RevCymbl
370	Choir Bell	ChoirBel		**SFX**		
371	FX 7 (echoes) 1	Echoes		398	Guitar Fret Noise	FretNoiz
372	FX 7a (echo bell) 1	EchoBell		399	Guitar Cutting Noise	GtCtNoiz
373	FX 7b (echo pan)	EchoPan		400	Acoustic Bass String Slap	BsStSlap
374	FX 8 (sci-fi)	Sci-Fi		401	Breath Noise	BrthNoiz
Ethnic Misc.				402	Flute Key Click	FlKeyClk
375	Sitar 1	Sitar		403	Seashore	Seashore
376	Sitar 2 (bend)	Sitar2		404	Rain	Rain
377	Banjo	Banjo		405	Thunder	Thunder

digital piano

No.	Name	LCD		No.	Name	LCD
406	Wind	Wind		436	Gunshot	Gunshot
407	Stream	Stream		437	Machine Gun	MachnGun
408	Bubble	Bubble		438	Lasergun	Lasergun
409	Bird Tweet 1	Tweet		439	Explosion	Explosio
410	Dog	Dog		440	Stereo Piano & Strings Pad	StPn&Str
411	Horse Gallop	HouseGlp		441	Stereo Piano & Choir	StPn&Cho
412	Bird Tweet 2	Tweet2		442	Stereo Piano & Synth Strings	StPn&Syn
413	Sheep	Sheep		443	Stereo Piano & Warm Pad	StPn&Pad
414	Telephone Ring 1	Telphone		444	Stereo Piano & Soft Ep	StPn&Ep
415	Telephone Ring 2	Telphon2		445	FM Electric Piano	FMEp
416	Door Creaking	DoorCrek		446	Digital Piano	DigiPn
417	Door	Door		447	E.Piano & Strings	EP&Str
418	Scratch	Scratch		448	E.Piano & Ac Guitar	EP&Gt
419	Wind Chime	WindChim		449	E.Piano & Vibraphone	Ep&Vib
420	Helicopter	Helicptr		450	E.Piano 2 & Pad	Ep&Pad
421	Car Engine	CarEngin		451	E.Piano 2 & Strings	Ep2&Str
422	Car Stop	CarStop		452	Harpsichord & Stereo Strings	Harps&Str
423	Car Pass	CarPass		453	Music Box & Stereo Strings	Mxb&Str
424	Car Crash	CarCrash		454	Vibraphone & Stereo Strings	Vib&Str
425	Siren	Siren		455	Vibraphone Octave	VibOct
426	Train	Train		456	Vibraphone & Marimba & Kalimba	VibMK
427	Jetplane	Jetplane		457	Marimba & Kalimba	Mar&Kal
428	Starship	Starship		458	Marimba Delay	MarDel
429	Burst Noise	BurtNois		459	Xylophone Octave	XylopOct
430	Applause	Applause		460	Organ & Stereo Strings	Org&Str
431	Laughing	Laughing		461	Stereo Organ & Piano	StOr&Pno
432	Screaming	Scream		462	Rock Organ & Strings	RoOr&Str
433	Punch	Punch		463	Church Organ & Choir	ChuOr&Ch
434	Heart Beat	HeartBet		464	Church Organ & Strings	ChuOr&St
435	Footsteps	Footstep		465	Acoustic Guitar & Flute	Gt&Fl

No.	Name	LCD		No.	Name	LCD
466	Acoustic Guitar & Clav	Gt&Cl		**Arabic Instruments**		
467	24 String Guitar	24Gt		486	Kanoun	Kanoun
468	Steel Guitar & Warm Pad	StGt&Pad		487	Aoud	Aoud
469	Stereo Strings & Horn	StStr&Hn		488	Bouzouk	Bouzouk
470	Orchestra	Orchest		489	Nay	Nay
471	Full Strings 1	FullStr1		490	Mizmar	Mizmar
472	Full Strings 2	FullStr2		**Drum Set**		
473	Symphonic	Symphon		491	Standard Set	StandSet
474	Stereo Choir & Strings	StCh&Str		492	Room Set	RoomSet
475	Stereo Choir & Steel Guitar	Ch&Gt		493	Power Set	PowerSet
476	3 Trumpet Loose	3Trump		494	Electronic Set	ElectSet
477	Trombone & Stereo Strings	Tb&StStr		495	Analog Set	AnalgSet
478	3 Trombones Loose	3Tromb		496	Jazz Set	JazzSet
479	3 Muted Trumpets Loose	3MuTrumb		497	Brush Set	BrushSet
480	Club Brass	ClubBras		498	Orchestra Set	OrcheSet
481	Brass & Woodwinds	Br&Wood		499	SFX Set	SFXSet
482	Woodwinds & Strings	Wind&Str		500	Arabic Set	ArabiSet
483	Section Woods Small	WoodSma				
484	Pan Flute & Strings Pad	PanFu&St				
485	Koto & Shamisen	Koto&Sh				

11 Styles list

No.	Name	LCD		No.	Name	LCD
8 BEAT				029	16Beat Modern	16BModr
001	8Beat Piano	8BtPiano		030	16Beat 3	16Beat3
002	8Beat 1	8Beat1		031	Cool Beat	CoolBeat
003	8Beat Shuffle	8BtShufl		032	16Beat Ballad 2	16BtBld2
004	Guitar Pop 1	GtPop1		033	16Beat 4	16Beat4
005	8Beat Hip Hop	8BtHiHop		034	Pop Shuffle	PopShufl
006	8Beat R&B	8BeatR&B		**POP**		
007	8Beat Pop	8BtPop		035	Pop Rock 1	PopRock1
008	Pop Funk 1	PopFunk1		036	Pop Dance 1	PopDanc1
009	Rhythm & Beat 1	Rhy&Bt1		037	Pop Fusion	PopFusn
010	8Beat Disco 1	8BtDisc1		038	Analog Night 1	AnalgNt1
011	8Beat Rock	8BtRock		039	6/8 Pop	6/8Pop
012	8Beat 2	8Beat2		040	Brit. Pop 1	BritPop1
013	Sweet Beat	SweetBt		041	Brit. Pop 2	BritPop2
014	8Beat Dance	8BtDance		042	Pop Hit	PopHit
015	8Beat Disco 2	8BtDisc2		043	Fusion Shuffle	FusShufl
016	8Beat 3	8Beat3		044	Analog Night 2	AnalgNt2
017	60's 8Beat	60's8Bt		045	Pop Beat	PopBeat
16 BEAT				046	Soft Beat	SoftBeat
018	16Beat 1	16Beat1		047	60's Pop	60'sPop
019	16Beat Funk 1	16BtFuk1		048	Sting Latin	StigLatn
020	16Beat Ballad 1	16BtBld1		**BALLAD**		
021	16Beat R&B	16BtR&B		049	R&B Ballad 1	R&BBad1
022	Pop 16Beat 1	Pop16Bt1		050	Guitar Ballad	GtBallad
023	16Beat Funk 2	16BtFuk2		051	Ballad Rcok	BalladRk
024	16Beat Dance	16BDanc		052	Piano Pop	PianoPop
025	16Beat 2	16Beat2		053	Soft Ballad	SoftBald
026	Pop 16Beat 3	Pop16Bt3		054	Natural Ballad	NatuBld
027	Modern 16Beat	Modrn16B		055	Love Ballad	LoveBld
028	16Beat Hot	16BtHot		056	Easy Ballad	EasyBld

No.	Name	LCD		No.	Name	LCD
057	Slow Ballad	SlowBald		085	Cha Cha 2	ChaCha2
058	Folk Ballad	FolkBld		086	Beguine 1	Beguine1
059	Pop Ballad 1	PopBld1		087	Beguine 2	Beguine2
060	Pop Ballad 2	PopBld2		088	Rumba 1	Rumba1
061	EP Ballad	EPBallad		089	Samba 1	Samba1
ROCK				090	Samba 2	Samba2
062	Rock	Rock		091	Jive	Jive
063	New Wave	NewWave		092	Fox Trot	FoxTrot
064	Ska	Ska		**DANCE**		
065	Pop Rock 2	PopRock2		093	Techno 1	Techno1
066	Slow Rock	SlowRock		094	Hip Hop 1	HipHop1
067	70's Rock & Roll	70'sRock		095	Dream Dance	DrmDance
068	Folk Rock	FolkRock		096	House	House
069	Soft Rock	SoftRock		097	Pop Dance 2	PopDanc2
070	Easy Rock	EasyRock		098	Down Beat	DownBeat
071	New Shuffle	NewShufl		099	Progressive	Progress
072	Rock Hip Hop	RkHipHop		100	Rap 1	Rap1
073	Rock&Roll 1	R'N'R1		101	Disco	Disco
074	Rock & Roll 2	R'N'R2		102	Soft Disco	SoftDisc
BALLROOM				103	Disco Party	DscParty
075	Tango 1	Tango1		104	70's Disco	70'sDisc
076	Spain Matador	Matador		105	Club Dance	ClubDanc
077	Twist 1	Twist1		106	Euro Dance	EuroDanc
078	Big Band Fox	BandFox		107	Hip Hop 2	HipHop2
079	Tango 2	Tango2		**SOUL & FUNK**		
080	Slow Fox	SlowFox		108	Funk 1	Funk1
081	Slow Waltz 1	SlowWlz1		109	Classic Funk	ClasFunk
082	Swing Fox	SwingFox		110	Gospel Swing	GopSwing
083	Salsa 1	Salsa1		111	Gospel	Gospel
084	Cha Cha 1	ChaCha1		112	Funk 2	Funk2

No.	Name	LCD	No.	Name	LCD
113	Electric Funk	ElecFunk	141	Bluegrass 1	Bluegrs1
114	Groove Funk	GrooveFk	142	Country 8Beat	Ct8Beat
115	Cool Funky	ColFunky	143	Modern Country	ModernCt
116	Jazz Funk	JazzFunk	144	Country Pop 2	CntyPop2
117	Groove	Groove	145	Bluegrass 2	Bluegrs2
118	Soul	Soul	146	2/4 Country	2/4Cntry
119	Hip Hop Beat	HipHopBt	147	Country Quick Steps	QuickStp
120	R&B	R&B	148	Country Folk	CntyFolk
121	Soul Beat	SoulBeat	149	Country Shuffle	CnyShufl
122	R&B Ballad 2	R&BBld2	**LATIN & LATIN DANCE**		
SWING & JAZZ			150	Bossa Nova	BosaNov
123	Latin Jazz 1	LatinJz1	151	Latin	Latin
124	Big Band	BigBand	152	New Reggae	NewRegga
125	Dixieland 1	Dixland1	153	Dance Reggae	DanRegga
126	Broadway Big Band	BwayBand	154	Pasodoble	Pasodobl
127	Swing	Swing	155	Lite Bossa	LteBossa
128	Latin Jazz 2	LatinJz2	156	Latin Rock	LatinRck
129	Fusion	Fusion	157	Disco Samba	DscSamba
130	Acid Jazz	AcidJazz	158	Mambo	Mambo
131	Cool Jazz Ballad	CoolJzBd	159	Rumba 2	Rumba2
132	Swing Shuffle	SwingSfl	160	Tikitikita	Tikitkta
133	Big Band Medium	BandMid	161	Lambada	Lambada
134	Dixieland 2	Dixland2	162	Pop Cha Cha 1	PChaCha1
135	Guitar Swing 2	GtSwing2	163	Pop Cha Cha 2	PChaCha2
136	Ragtime	Ragtime	164	Salsa 2	Salsa2
137	Modern Jazz Ballad	MdJzBald	**WALTZ & TRADITIONAL**		
138	Swing Ballad	SwingBal	165	Waltz	Waltz
139	Orchestra Swing	OrhSwing	166	Old Waltz	OldWaltz
COUNTRY			167	English Waltz	EngWaltz
140	Country Pop 1	CntyPop1	168	German Waltz	GemWaltz

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No.	Name	LCD		No.	Name	LCD
169	ViennaWaltz	VinaWtz		185	Dangdut	Dangdut
170	Slow Waltz 2	SlwWltz2		186	6/8 Flipper	6/8Flipp
171	Jazz Waltz	JzWaltz		187	New Age	NewAge
172	Polka	Polka		188	Tarantella	Tarantel
173	6/8 March	6/8March		189	Scottish	Scottish
174	German Polka	GerPolka		190	Norteno	Norteno
175	Party Polka	PtyPolka		**Arab**		
176	Army March	ArmMarch		191	Zarb 6/8	Zarb 6/8
177	March	March		192	Zarb Tempo	ZarbTemp
178	US March	USMarch		193	Bandary	Bandary
179	Musette	Musette		194	Zarb Daf	Zarb Daf
180	Mazurke	Mazurke		195	Pop 4/4	Pop 4/4
World				196	Saidi IR	Saidi IR
181	Enka Ballad	EnkaBald		197	Cifte	Cifte
182	Laendler	Laendler		198	Baladi	Baladi
183	Hawaiian	Hawaiian		199	Masmoudi	Masmoudi
184	Sirtake	Sirtake		200	Wehda	Wehda

12 Practise and demo songs

No.	Name	LCD		No.	Name	LCD
FOLK & COUNTRY				028	Mov.2 Adagio Non Troppo Piano Sonata No.9 In D	Sonata9
001	Jambalaya	Jambalay		029	Mov.1 Andante Grazioso Piano Sonata No.11 In A (Alla TurSonata11ca)	Sonata11
002	Ding! Dong! Merrily On High	DingDong		030	Prelude In C	Prelude
003	Battle Hymn Of The Republic	Battle		031	Chinese Dance	ChDance
004	The Old Gray Mare	GrayMare		032	Emperors Waltz	EmprWalz
005	American Patrol	USPatrol		033		MilMar1
006	Christmas Is Coming	IsComing		034	Symphony No.40	Symphony
007	Sippin`Cider Through A Straw	SCTStraw		**JAZZ & FUSION**		
008	Christmas Sound	Sound		035	ShanZhaShu	ShanZhaS
GOLDEN & POP				036	You Are My Sunshine	MySun
009	On London Bridge	LdBridge		037	June Samba	JunSamba
010	Are You Lonesome Tonight	Lonesome		038	Funk	Funk
011	Der Deitcher`s Dog	DerDDog		039	I Can......	I Can...
012	Joy to The World	JoyWorld		040	Sea Shore	SeaShore
013	Silent Night	SltNight		**PIANO**		
014	Ave Maria	AveMaria		041	Fur Elise	FurElise
015	Five Hundred Miles	FHMiles		042	Military March	MMarch
016	Happy New Year	HappyNY		043	Habanera	Habanera
017	It's Beginning To Look A Lot Like Christmas	LikeXmas		044	Minuet	Minuet
018	Jeanie With The Light Brown Hair	LighHair		045	Austria Variation	AVariati
019	My Bonnie	MyBonnie		046	Old Macdonald Had A Farm	OldAFarm
020	Song Of The Pearlfisher	SongOfTP		047	Wedding March	Wedding
CLASSICAL				048	2-Part Invention #13 In A Minor.B.W. Iii	Invntion
021	Swan	Swan		049	Minuet In G	MinuetG
022	Prelude To Act 2 (Swan Lake)	SwanLak1		050	Turkish March	TurkishM
023	Valse (Swan lake)	SwanLak2		051	Hey Diddle Diddle	HeDiddle
024	The Happy Farmer	HpFarmer		052	Italian Polka	ItaPolka

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No.	Name	LCD		No.	Name	LCD
025	The Sleeping Beauty	SleepBty		053	Moseta Dance	MosetaDn
026	La Traviata	LaTravia		054	Bulie Dance	BulieDn
027	Wiegenlied	Wiegenli		055	Waltz in A Flat Op.39 No.15	Waltz in A

No.	Name	LCD		No.	Name	LCD
056	Wild Rose	WildRose		059	Angles We Have Heard On High	Angles
057	Away In A Manger	AwayInAM		060	Waltz	Waltz
058	Jack & Jill	JackJill				

Demos

No.	Name	LCD
001	Fantasie Impromptu	Fantasie
002	Funk	Funk

13 Chord list

	Chord description	Normal chord construction	Chord symbol	Display
0	Major [M]	1–3–5	C	C
1	Major sixth [6]	1–(3)–5–6	C6	C6
2	Major seventh [M7]	1–3–(5)–7	CM7	CM7
3	Major seventh with augmented eleventh [M7#11]	1–(2)–3–#4–(5)–7	CM7#11	CM7(#11)
4	Major add ninth [Madd9]	1–2–3–5	CMadd9	CM(9)
5	Major ninth [M9]	1–2–3–(5)–7	CM9	CM7(9)
6	Major sixth and ninth [6 9]	1–2–3–(5)–6	C6 9	C6(9)
7	Augmented [aug]	1–3–#5	Caug	Caug
8	Minor [m]	1–b3–5	Cm	Cm
9	Minor sixth [m6]	1–b3–5–6	Cm6	Cm6
10	Minor seventh [m7]	1–b3–(5)–b7	Cm7	Cm7
11	Minor seventh flatted fifth [m7b5]	1–b3–b5–b7	Cm7b5	Cm7(b5)
12	Minor add ninth [madd9]	1–2–b3–5	Cmadd9	Cm(9)
13	Minor ninth [m9]	1–2–b3–(5)–b7	Cm9	Cm7(9)
14	Minor eleventh [m11]	1–(2)–b3–4–5–(b7)	Cm11	Cm7(11)
15	Minor major ninth [mM7]	1–b3–(5)–7	CmM7	CmM7
16	Minor major ninth [mM9]	1–2–b3–(5)–7	CmM9	CmM7(9)
17	Diminished [dim]	1–b3–b5	Cdim	Cdim
18	Diminished seventh [dim7]	1–b3–b5–6	Cdim7	Cdim7
19	Seventh [7]	1–3–(5)–b7	C7	C7
20	Seventh suspended [7sus4]	1–4–5–b7	C7sus4	C7sus4
21	Seventh flatted fifth [7b5]	1–3–b5–b7	C7b5	C7(b5)
22	Seventh ninth [79]	1–2–3–(5)–b7	C7 9	C7(9)
23	Seventh sharp eleventh [7#11]	1–2–3–#4–(5)–b7 oder 1–(2)–3–#4–5–b7	C7#11	C7(#11)
24	Seventh thirteenth [7 13]	1–3–(5)–6–b7 oder 2–3–5–6–b7	C7 13	C7(13)
25	Seventh flatted ninth [7b9]	1–b2–3–(5)–b7	C7b9	C7(b9)
26	Seventh flatted thirteenth [7b13]	1–3–5–b6–b7	C7b13	C7(b13)
27	Seventh sharp ninth [7#9]	(1)–#2–3–(5)–b7	C7#9	C7(#9)
28	Major seventh augmented [M7aug]	1–3–#5–7	CM7aug	CM7aug

	Chord description	Normal chord construction	Chord symbol	Display
29	Seventh augmented [7aug]	(1)–3–#5–b7	C7aug	C7aug
30	Suspended fourth [sus4]	1–4–5	Csus4	Csus4
31	Suspended second [1+2+5]	1–2–5	C1+2+5	C

14   MIDI implementation chart

Function		Sent	Received	Notes
Basic Channel	Default	1	1 – 16	
	Changed	1 – 16	1 – 16	
Mode	Default	No	Mode 3	
	Messages	No	No	
	Altered	********	No	
Note Number		0 – 127	0 – 127	
	True voice	********	0 – 127	
Velocity Note	Note ON	Yes, 9nH, v = 1 – 127	Yes, 9nH, v = 1 – 127	
	Note OFF	No, 9nH, v = 0	Yes, 9nH, v = 0 or 8nH, v = 0 – 127	
After Touch	Keys	No	No	
	Channels	No	No	
Pitch Bend		No	Yes	
Control Change	0	Yes	Yes	Bank Select
	1	No	Yes	Modulation
	5	No	Yes	Portamento Time
	6	Yes	Yes	Data Entry
	7	Yes	Yes	Volume
	10	No	Yes	Pan
	11	No	Yes	Expression
	64	Yes	Yes	Sustain Pedal
	65	No	Yes	Portamento ON/OFF
	66	Yes	Yes	Sostenuto Pedal
	67	Yes	Yes	Soft Pedal
	80	No	Yes	Reverb Program
	81	No	Yes	Chorus Program
	91	Yes	Yes	Reverb Level
	93	Yes	Yes	Chorus Level
	120	Yes	Yes	All Sound Off
	121	No	No	Reset All Controllers
	123	Yes	Yes	All Notes Off

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Function		Sent	Received	Notes
Program Change	True #	Yes ********	Yes 0 – 127	
System Exclusive		No	Yes	
System Common	Song Position Pointer	No	No	
	Song Select	No	No	
	Tune Request	No	No	
System Real Time	Clock	Yes	No	
	Commands	No *1	No	
Aux Messages	LOCAL ON/OFF	No	No	
	Active Sensing	No	Yes	
	System Reset	No	No	
Notes:	*1 When the accompaniment starts, an FAH message is transmitted. When the accompaniment stops, an FCH message is transmitted. When an FAH message is received, the accompaniment starts. When an FCH message is received, the accompaniment stops.			

MIDI channel modes

	POLY	MONO ON
OMNI ON	Mode 1	Mode 2
OMNI OFF	Mode 3	Mode 4

15   Technical specifications

Input connections	USB port	USB-to-Host
	AUX IN to connect a CD or MP3 player	1 ×1/4" jack socket
	MIDI interface for connecting an external MIDI device.	in
Output connections	Headphones	2 ×1/4" jack socket
	MIDI interface for connecting an external MIDI device.	out
	AUX OUT for connecting an external audio device	1 ×1/4" jack socket
Display	Multifunction LCD	
Keyboard	88 weighted keys with hammer action and adjustable touch response	
Polyphony	128-voice	
Sounds	500	
Styles	200	
Pedals	Multifunction pedal, Sostenuto, Sustain	
Demo and practice songs	Practising songs	60
	Demo pieces	2
Album	120 Songs	
Memory	32 memory locations	
Amp	10 W	
Speaker	2 × 20 W, 8 Ω	
	2 × 25 W, 8 Ω	
Operating supply voltage	230 V ∼ 50 Hz	
Dimensions (W × H × D)	1380 mm × 906 mm × 514 mm	
Weight	53 kg	
Colour	black	Item number 352288
	White	Item number 352389
Key cover	included	
Ambient conditions	Temperature range	0 °C…40 °C
	Relative humidity	50 %, non-condensing

Further information

Surface	Matt
Wooden keyboard	No
Ivory-feel keyboard	No
Auto Accompaniment	Yes
Number of rhythms	200
Polyphony	128
Sounds	500
Storage medium	MIDI In/Out
	USB to host

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16 Protecting the environment

Disposal of the packaging material

For the transport and protective packaging, environmentally friendly materials have been chosen that can be supplied to normal recycling.

Ensure that plastic bags, packaging, etc. are properly disposed of.

Do not just dispose of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the notes and markings on the packaging.

Disposal of your old device

This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) in its currently valid version. Do not dispose with your normal household waste.

Dispose of this device through an approved waste disposal firm or through your local waste facility. When discarding the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste disposal facility.

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