

th•mann

DP-275 GP BP, DP-275 GP WHP
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 ➤ 'Cross-references' on page 6.

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

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**

Always use proper ready-made insulated two-wire mains cabling (power cord). 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.

**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. Only operate the device within the ambient conditions specified in the chapter 'Technical specifications' of this user manual. Avoid heavy temperature fluctuations and do not switch the device on immediately after it was exposed to temperature fluctuations (for example after transport at low outside temperatures). Dust and dirt inside can damage the unit. When operated in harmful ambient conditions (dust, smoke, nicotine, fog, etc.), the unit should be maintained by qualified service personnel at regular intervals to prevent overheating and other malfunction.

- **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.
- **NOTICE!**
Possible damage due to installation of a wrong fuse
● The use of different types of fuses can cause serious damage to the unit. Fire hazard! Only fuses of the same type may be used.
- **NOTICE!**
Possible staining
● The plasticiser contained in the rubber feet of this product may possibly react with the coating of your surface and after some time cause permanent dark stains. In case of doubt, do not put the rubber feet directly on the surface and use a suitable underlay if necessary, i.e. felt-pad floor protectors or similar.

3 Features

The digital piano is characterized by the following features:

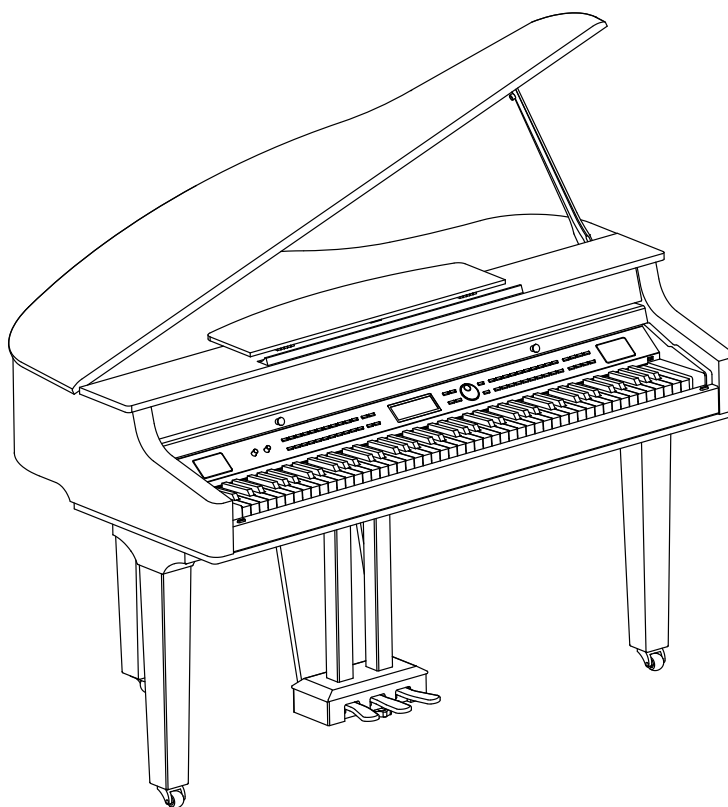
- 88 weighted keys with hammer action
- 3 pedals (sustain, soft, sostenuto)
- LCD display
- User-friendly controls and indicators
- Built-in memory for user settings and recordings
- Built-in power amplifiers and speakers
- 256-voice polyphony
- 90 songs
- 3 demo songs
- 1200 sounds
- 270 styles
- 128 MIDI voices
- Metronome
- Transpose function
- Equalizer
- DSP, Reverb and Chorus effects
- Layer and Split mode
- Harmony mode
- TWINOVA (duo mode)
- Touch response, adjustable
- Bluetooth®
- Recording function
- Connections: 2 × headphones, microphone, Aux in/out, MIDI In/Out/Thru, USB audio, USB MIDI
- Loudspeaker load capacity: 2 × 40 Watt + 2 × 20 Watt
- Automatic shutoff, deactivatable
- Operating system: Windows® 8 and later, Mac OS X® 10.8 and later

4 Installation

Keep the equipment packaging. To fully protect the instrument against vibration, dust and moisture during transportation or storage use the original packaging or your own packaging material suitable for transport or storage, respectively.

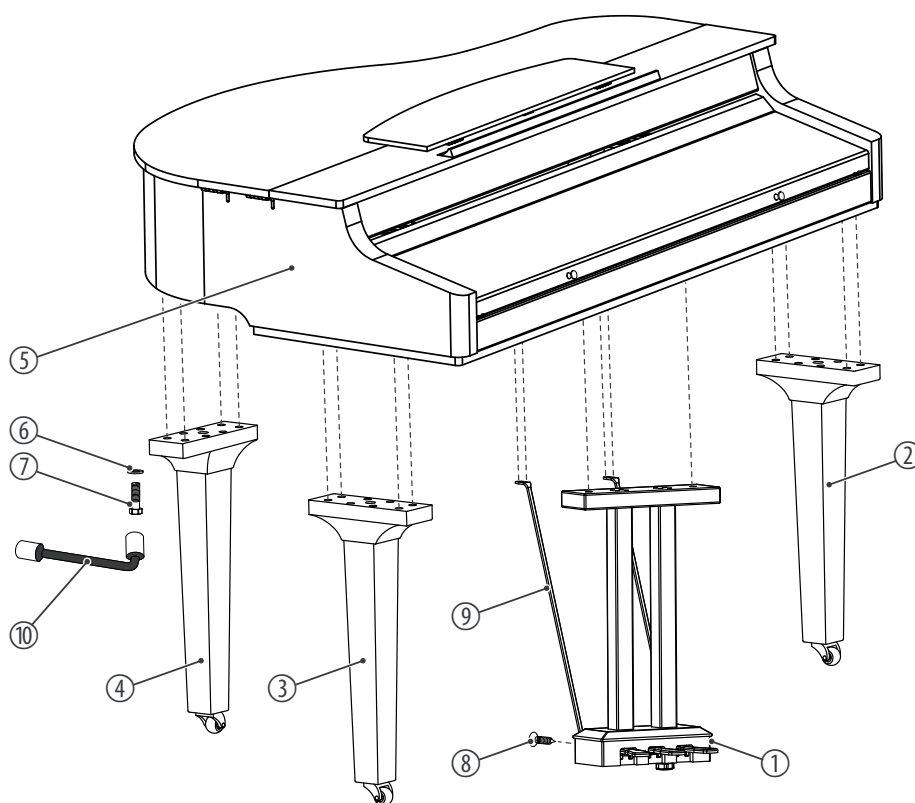
Set up the instrument in the desired location.

Overview



For assembling the digital piano, you only need the included tool. Open the package, take out all items and check before assembling that the entire scope of delivery is present, as listed here.

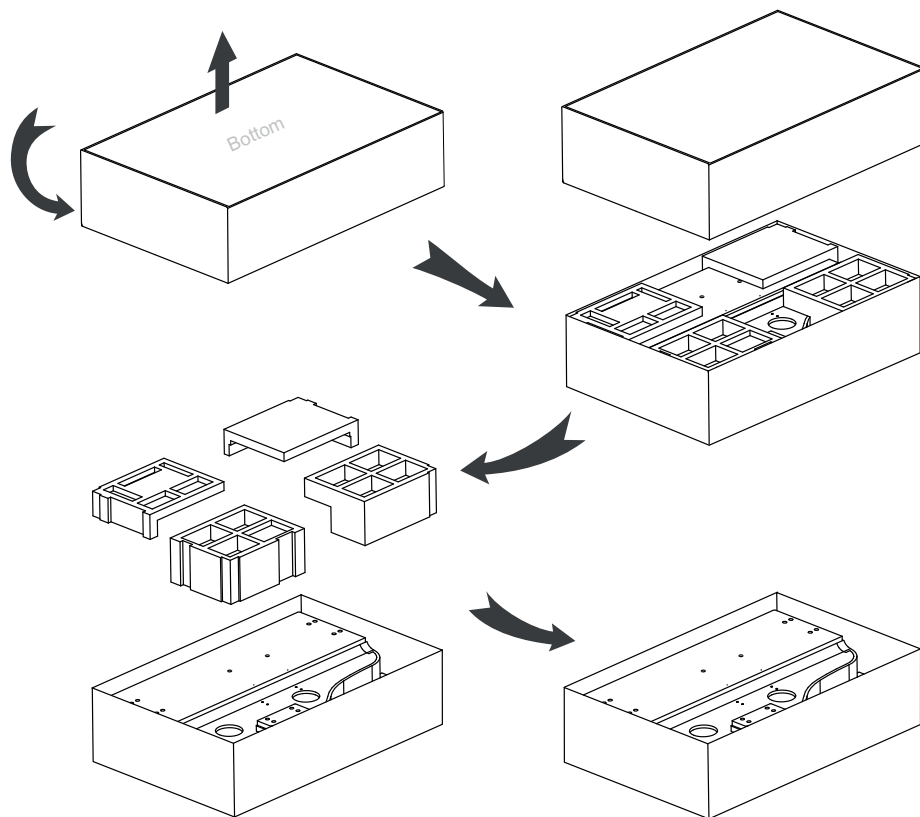
Scope of delivery



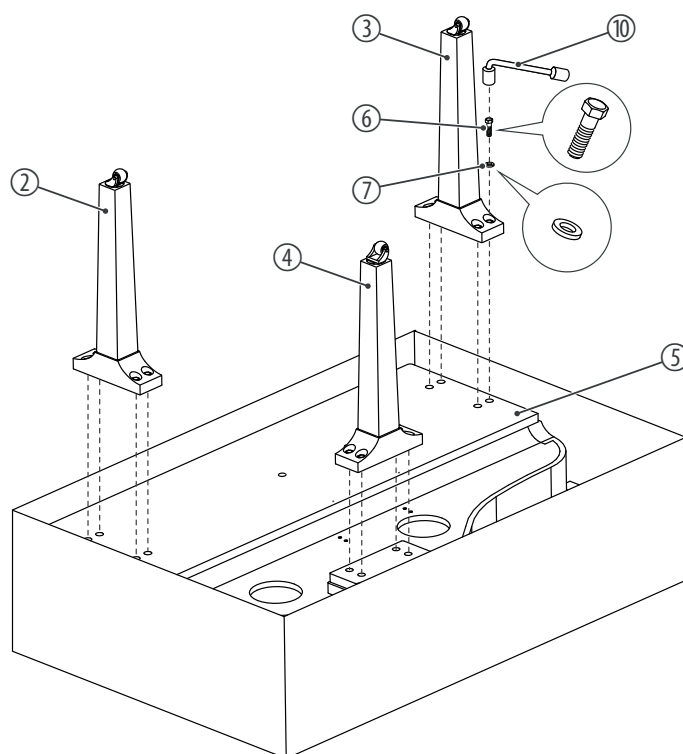
1	Pedal unit (pre-assembled)
2	Right support leg
3	Left support leg
4	Rear support leg
5	Keydesk
6	14 x washers
7	14 x hexagon bolts M12 x 45
8	8 x screws 3 x 15
9	2 x supports for pedal unit
10	Hexagon screwdriver
Not illustrated:	
Power cord	
Pedal cable	

Assembly instructions

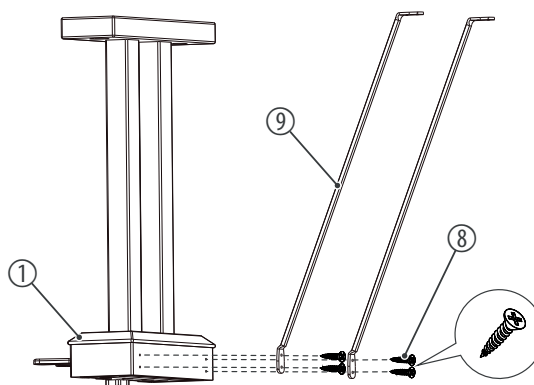
Proceed according to the illustrations and only use the supplied screws. Using other screws could damage the piano housing or result in a reduced stability of the piano.



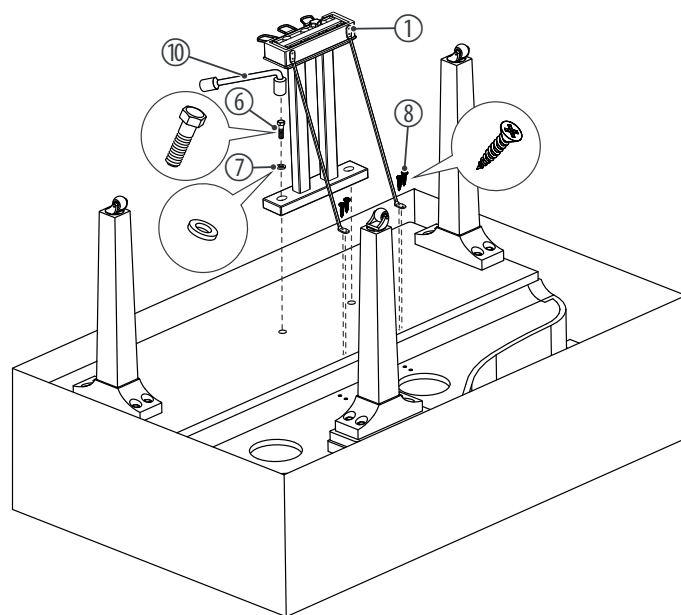
1. ➤ Place the box upside down on a suitable surface, open the box and remove the foam protection.



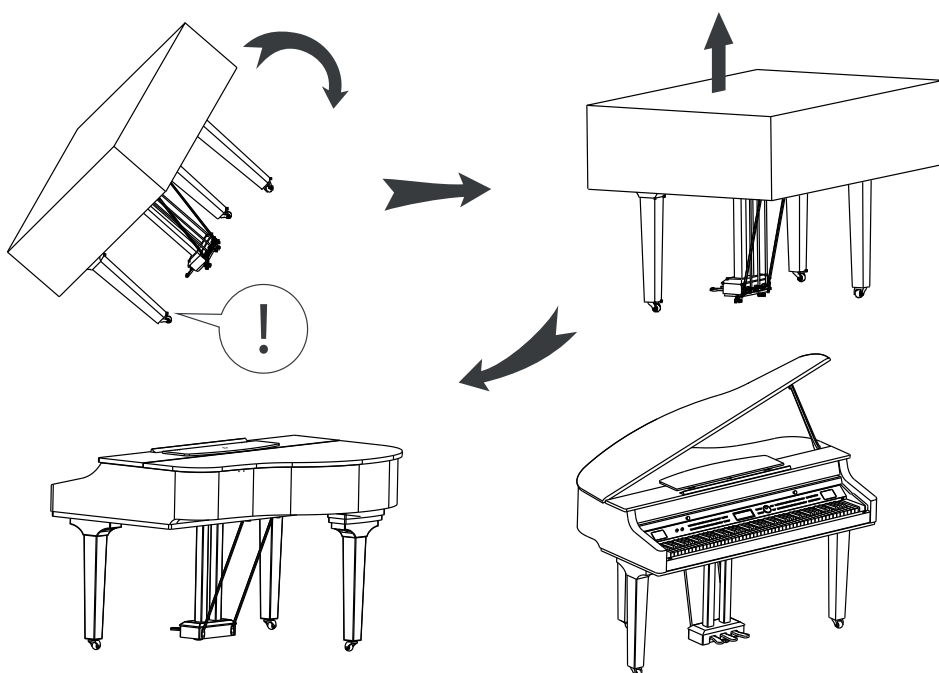
- 2.** ➔ One after the other, screw the three supports with each four of the supplied washers (7) and hexagonal screws (6) using the hexagonal screwdriver (10) as shown on the underside of the keydesk (5).



- 3.** ➔ Attach the supports for the pedal unit (9) to the pedal unit (1) using two of the supplied screws (8) each as shown.



- 4.** Carefully turn the pedal unit (1) over and fasten it to the keydesk with two of the supplied washers (7) and hexagonal screws (6) using the hexagonal screwdriver (10) and four of the supplied screws (8) as shown.



- 5.** Carefully turn the digital piano onto the support legs as shown and remove the cardboard. Make sure that neither the support legs nor the pedal unit get damaged.

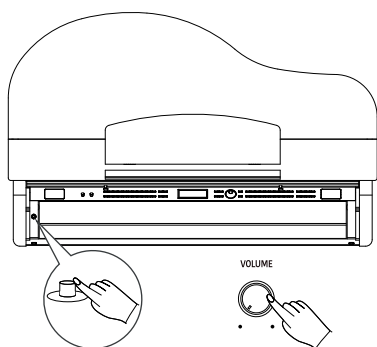


CAUTION!

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.

Mains connection



The instrument is connected using the power cord supplied. Make sure that the digital piano is turned off before you connect it to the power supply or disconnect it.

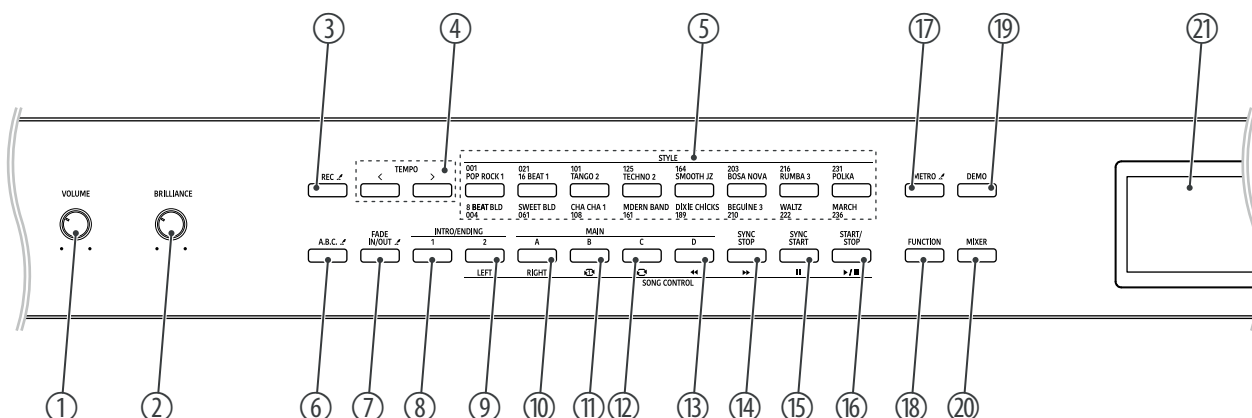
1. ➤ Turn the volume control counterclockwise to minimum.
2. ➤ Connect the power cord to the input socket on the underside of the digital piano.
3. ➤ Insert the plug into a properly earthed mains wall outlet.
4. ➤ Now you can turn on the digital piano.



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

5 Connections and controls

Left control panel

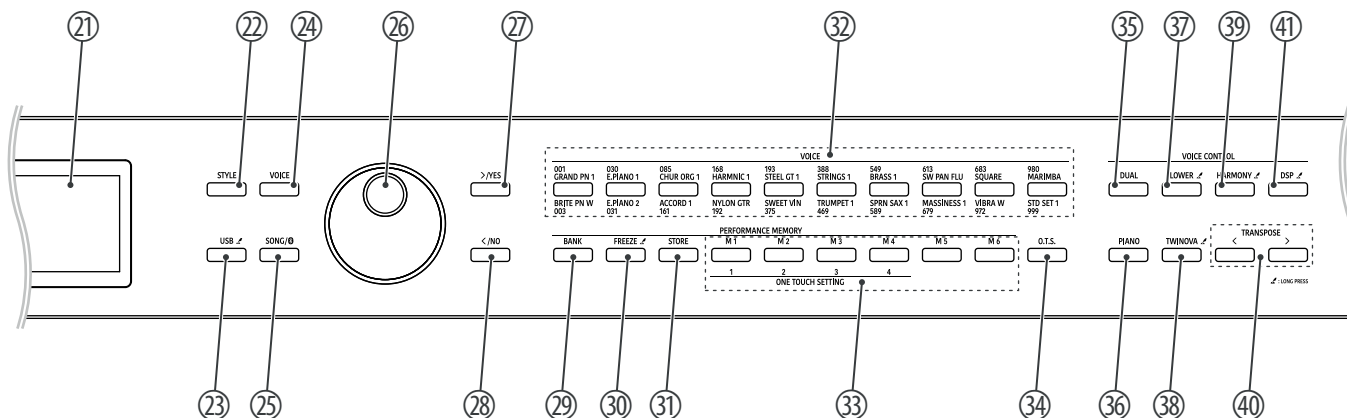


- | | |
|---|---|
| 1 | [VOLUME]
Rotary control to adjust the overall volume |
| 2 | [BRILLIANCE]
Rotary control to adjust the tone colour |
| 3 | [REC]
Button to switch to recording mode
If a USB flash drive (USB stick) is inserted: press the button for an audio recording.
If no USB flash drive (USB stick) is inserted: press the button to start a MIDI recording.
Hold down the button to enter the recording settings menu. |
| 4 | [TEMPO]/[<]/[>]
Buttons for adjusting the tempo |
| 5 | [STYLE]
Direct selection buttons for styles selection. Pressing the button again selects the second stored style. |
| 6 | [A.B.C.]
Button to activate / deactivate the A.B.C. function
Hold down the button to enter the chord settings menu. |
| 7 | [FADE IN/OUT]
Button to switch the fade options
Hold down the button to enter the fade settings menu. |
| 8 | [INTRO ENDING 1]
Button to play the intro 1 or ending 1 |






9	<i>[INTRO ENDING 2]</i> Style mode: Button to play the intro 2 or ending 2 Song modus: Button to mute or activate the part for the left hand
10	<i>[MAIN A]</i> Style mode: Button for playing the main pattern A Song modus: Button to mute or activate the part for the right hand
11	<i>[MAIN B]</i> Style mode: Button for playing the main pattern B Song modus: Button to activate the loop function. The currently playing song will be repeated continuously.
12	<i>[MAIN C]</i> Style mode: Button for playing the main pattern C Song modus: Button to activate the loop function. All songs are repeated continuously.
13	<i>[MAIN D]</i> Style mode: Button for playing the main pattern D Song modus: Button to start the playback Bluetooth® mode: Button for playing the next song
14	<i>[SYNC/STOP]</i> Style mode: Button to activate / deactivate the sync-stop function Song modus: Button for playing the next song during playback Bluetooth® mode: Button for playing the next Bluetooth® song
15	<i>[SYNC / START]</i> Style mode: Button to activate / deactivate the sync-start function Song modus: Button for pausing the currently playing song during playback Bluetooth® mode: Button for pausing the currently playing Bluetooth® song during playback
16	<i>[START / STOP]</i> Button to start / stop a song / Bluetooth® song or style
17	<i>[METRO] </i> Button to activate / deactivate the metronome. Hold down the button to enter the metronome settings menu.
18	<i>[FUNCTION]</i> Button to call up the functions menu
19	<i>[DEMO]</i> Button to call up the demo mode

20	[MIXER] Button to call up the mixer menu
21	LCD display

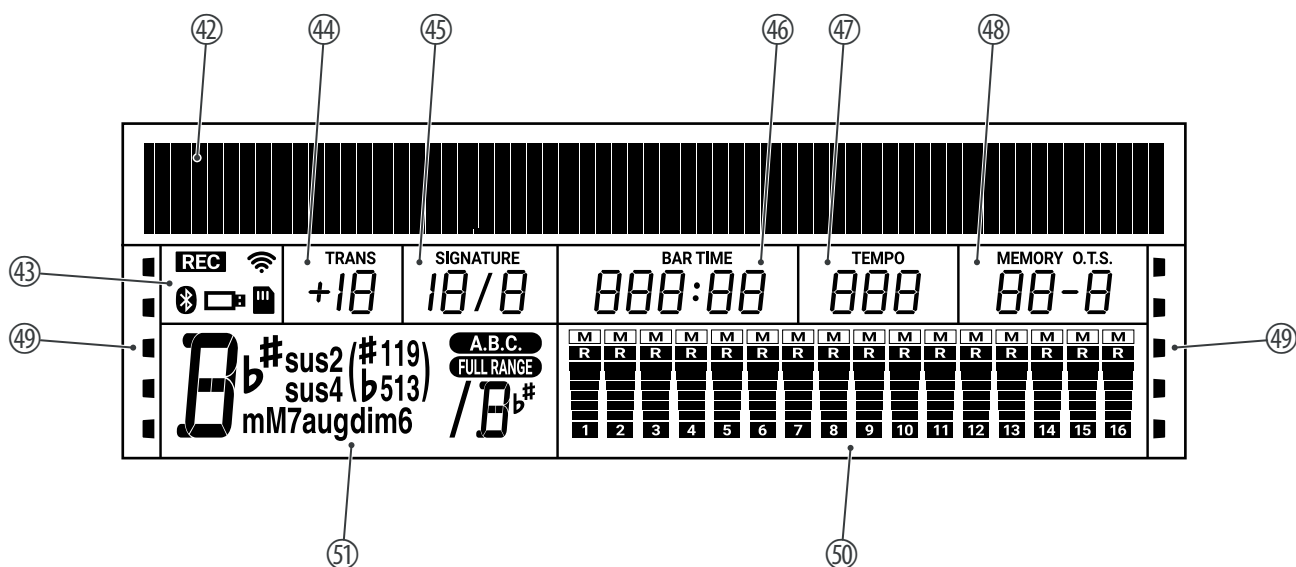
Right control panel.



21	LCD display
22	[STYLE] Button to call up the style mode
23	[USB] Button to activate / deactivate the USB mode Hold down the button to enter the USB settings menu.
24	[VOICE] Button to call up the sound mode
25	[SONG]/0 Button to call up the song mode With Bluetooth® activated, press the button again to enter Bluetooth® mode. To exit Bluetooth® mode and switch to Song mode, press the button again.
26	Rotary control for setting the parameters
27	[>/YES] Button for increasing values Simultaneously press [>/YES] and [</NO] to restore the standard settings.
28	[</NO] Button for decreasing values Simultaneously press [>/YES] and [</NO] to restore the standard settings.

29	<i>[BANK]</i>	Button for selecting a memory location
30	<i>[FREEZE]</i> 	Button to activate / deactivate the freeze mode Hold down the button to enter the freeze settings menu.
31	<i>[STORE]</i>	Button to save the current setting. Simultaneously press <i>[STORE]</i> along with one of the buttons <i>[M1]...[M6]</i> to select the memory location for the settings.
32	<i>[VOICE]</i>	Direct select buttons for sound selection. Pressing the <i>[VOICE]</i> button again selects the second stored sound.
33	<i>[M1]...[M6]</i>	Memory mode: Button for calling up the saved settings O.T.S. mode: Button for calling up sounds that match the current style
34	<i>[O.T.S.]</i>	Button for activating / deactivating the O.T.S. mode (One Touch Setting)
35	<i>[DUAL]</i>	Button to activate / deactivate the dual mode
36	<i>[PIANO]</i>	Button to call up the piano mode
37	<i>[LOWER]</i> 	Button to activate / deactivate the split mode Hold down the button to enter the split mode settings menu.
38	<i>[TWINOVA]</i> 	Button to activate / deactivate the TWINOVA mode Hold down the button to enter the TWINOVA settings menu.
39	<i>[HARMONY]</i> 	Button to activate / deactivate the harmony mode Hold down the button to enter the harmony settings menu.
40	<i>[TRANSDPOSE]/[<]/[>]</i>	Buttons for transposing the pitch of the entire keyboard
41	<i>[DSP]</i> 	Button to activate / deactivate the DSP mode Hold down the button to enter the DSP settings menu.

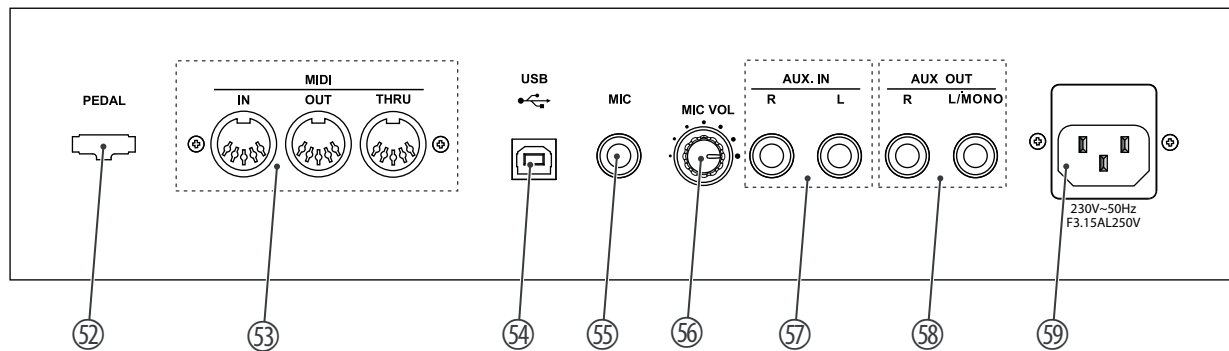
Display



42	LCD matrix (192 × 16 Dot)
43	Displays for the recording function, Bluetooth® connection and USB flash drive (USB stick)
44	[TIME] Display for the transpose function
45	[SIGNATURE] Beat display
46	[BAR TIME] Time signature display
47	[TEMPO] Tempo display
48	[MEMORY O.T.S.] Display for memory location and O.T.S.-
49	Function display
50	Track display. During playback, the indicator shows the volume of the MIDI channel.
51	Chord display

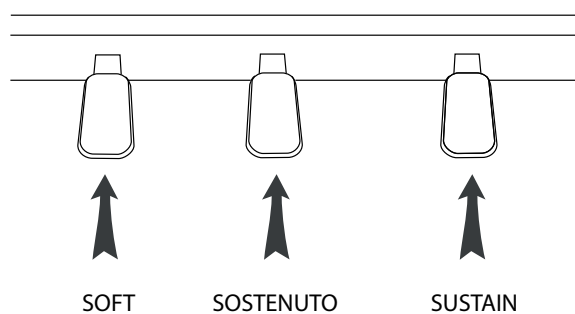
Connections

All connectors for external devices are located on the connector panel on the bottom side of the keydesk.



52	[PEDAL] Input socket for the cable from the pedal unit
53	[MIDI IN/OUT/THRU] MIDI in, output and THRU socket to connect the digital piano to other MIDI devices.
54	[USB] USB-to-host interface to connect the digital piano to a computer (MIDI data)
55	[MIC] Input socket for a microphone, designed as 1/4" jack socket The signal of the connected microphone is reproduced via the built-in loudspeakers of the digital piano.
56	[MIC VOL] Rotary control to adjust the input volume of the connected microphone.
57	[AUX. IN R/L] Input sockets for connecting external audio devices such as MP3 player, designed as 1/4" jack sockets
58	[AUX. OUT R / L/MONO] Output sockets for connecting powered speakers, a stereo system or other amplifiers, designed as 1/4" jack sockets Connect both channels (R and L / Mono) for stereo transmission. Only connect channel (L) for mono transmission.
59	Input socket for the power cable, designed as IEC panel plug with fuse holder

Pedal box



Soft pedal

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

Sostenuto pedal

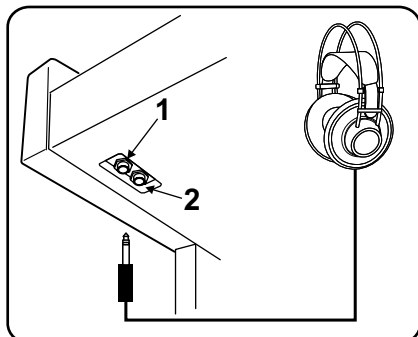
When stepping on the Sostenuto pedal, the currently played notes linger until you release the pedal.

Sustain pedal

With the sustain pedal all played notes sound longer. This effect simulates the lifting and lowering of the dampers in an analogue piano.

6 Connection options

Headphones

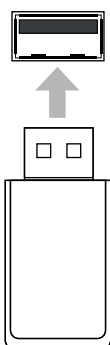


To the left beneath the keyboard you find the headphones outlets 1 and 2.

Both connection sockets can be used at a time. Connecting headphones (not supplied) to the outputs mutes the speakers.

Never operate the headphones at high volume as this can permanently damage your hearing.

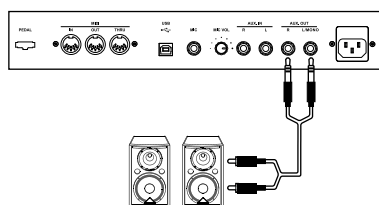
USB port



You can save digital piano data on a USB flash drive (USB stick) or play saved songs on the digital piano.

Note that the USB flash drive (USB stick) must not be removed from the digital piano while data is being saved or read, otherwise the USB flash drive (USB stick) may be damaged.

External audio devices via AUX OUT



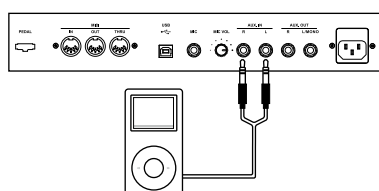
Use the *[AUX OUT]* sockets to connect the digital piano to an amplifier, stereo device, mixing console or recording device. Connect both channels (R and L / Mono) for stereo transmission. Only connect one channel (L) for mono transmission. Plug the other end of the cable into the input of the appropriate audio device.



NOTICE!

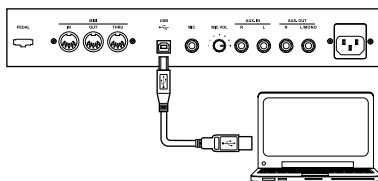
To prevent damage to the speakers, turn the volume down to 'Minimum' before you connect other devices to the digital piano.

External audio devices via AUX IN



Use the *[AUX IN]* sockets to connect a, for example, a 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. Connect both channels to the *[AUX IN]* sockets on the rear panel of the digital piano, and the other end of the cable to the output of the respective audio device.

Computer via USB-MIDI

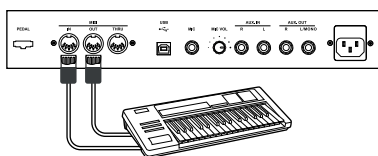


You can connect the digital piano to a PC for data exchange via the USB-to-host interface.



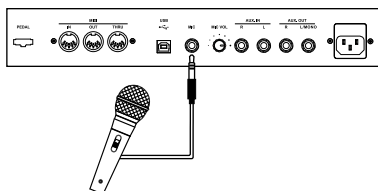
Use a current operating system still supported by the provider to avoid technical difficulties.

MIDI gear via MIDI IN / MIDI OUT / MIDI THRU



Via the MIDI interface, you can send MIDI data to an external MIDI device or receive data.

Microphone



Use the connection socket [MIC] to connect a microphone to the digital piano.



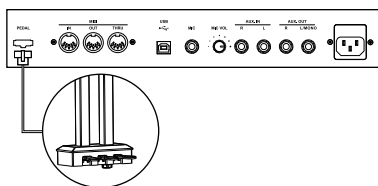
Since the input does not provide phantom power for condenser microphones, the connection is only suitable for dynamic microphones.



NOTICE!

To prevent damage to the speakers, turn the volume down to 'Minimum' before you connect a microphone to the digital piano. Disconnect the microphone from the digital piano when it is not in use.

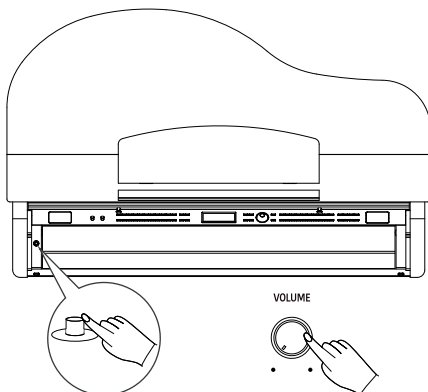
Pedal unit



Use the connection socket [PEDAL] to connect a pedal box to the digital piano.

7 Operating

7.1 Turning the digital piano on and off



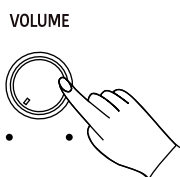
1. ➤ Press **[POWER]** to the left of the digital piano keyboard.
⇒ The LED of the **[POWER]** button lights up and the display shows that the digital piano is ready for operation.
2. ➤ Hold down **[POWER]** to turn the digital piano off.
⇒ The LED of the **[POWER]** button turns off.



To prevent damage to the speakers, turn the volume down to 'Minimum' before you switch the digital piano on.

If the display keeps blank when you turn the digital piano on, check the power supply.

7.2 Adjusting the volume



Use the rotary control **[VOLUME]** to set a comfortable volume.

1. ➤ Turn the rotary control **[VOLUME]** clockwise to increase the volume.
2. ➤ Turn the rotary control **[VOLUME]** counterclockwise to reduce the volume.

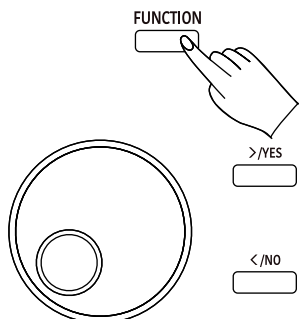
7.3 Setting the tone colour



Use the rotary control **[BRILLIANCE]** to set the sound character of the digital piano.

1. ➤ Turn the rotary control **[BRILLIANCE]** clockwise to adjust the treble for the entire keyboard.
2. ➤ Turn the rotary control **[BRILLIANCE]** counterclockwise to adjust the bass for the entire keyboard.

7.4 Function menu



In the function menu you can adjust parameters and their settings according to your needs.

1. ➤ Press **[FUNCTION]** to call up the functions menu.
2. ➤ Use the rotary control to select a desired parameter.
⇒ The current parameter appears on the display.
3. ➤ Press **[>/YES]**/**[</NO]** to change the value of the current parameter.
4. ➤ Simultaneously press **[>/YES]** and **[</NO]** to restore the standard settings.

The following table shows the setting options in the functions menu.

No.	Parameter	Display	Settings	Standard setting
1	Tune	TUNE	-50...+50	0
2	Voice R1 Octave	OCTAVE R1	-2...+2	0
3	Voice R2 Octave	OCTAVE R2	-2...+2	0
4	Voice L Octave	OCTAVE L	-2...+2	0
5	Touch Response	TOUCH	Off, Soft2, Soft1, Medium1, Medium2, Hard1, Hard2	Medium1
6	Chord Type	CHORD	Fingered, Multi, Bass Invert	Fingered
7	Lower Split Point	LOWER SPLIT	A0...C8	F#3
8	Twinova Split Point	TWINOVA SPLIT	A0...C8	E3
9	Twinova Octave	TWINOVA OCTAVE	-2...+2	0
10	Harmony Type	HARMONY	Duet, Trio, Octave, 1+5, Country Duet, Block, 4 Close 1, 4 Close 2, 4 Open	Duet
11	EQ	EQ	Piano, Pop, Classical, Rock, Jazz, R&B	Piano
12	String Resonance	STRING RES.	0...32	8
13	Soft Pedal	SOFT PEDAL	Soft, Play, Memory	Soft
14	Freeze	FREEZE	Style, Voice, Song	Style
15	Metronome Time Signature	METRO	2/2...12/8	4 / 4
16	Fade In/Out Time	FADE TIME	1...20	10
17	MIDI Out Channel	MIDI OUT CH	1...16	1
18	Song Looping	SONG LOOP	Single, All, Off	All
19	Auto Power Off	POWER OFF	Never, 30 Min., 60 Min.	30 Min.

No.	Parameter	Display	Settings	Standard setting
20	Bluetooth Auto Link	BLUETOOTH AUTO	On, Off	On
21	Restore Factory Setting	SYSTEM RESET		



If no entry is made within 10 seconds, the function menu is automatically closed.

7.4.1 Tuning

With this function you can fine tune the pitch of the entire keyboard.

Func	TUNE	00
TRANS	SIGNATURE	BAR TIME
0	4/4	00 1:0 1
	A.B.C.	TEMPO
		096
		MEMORY
		0 1- 1

1. ➤ Press **[FUNCTION]** to call up the functions menu.
2. ➤ Use the rotary control to select the **'TUNE'** menu to activate the tuning function.
3. ➤ Press **[>/YES]/[</NO]** to adjust the tuning in a range of a semitone (= 100 cents).
4. ➤ Simultaneously press **[>/YES]** and **[</NO]** to restore the standard settings.

7.4.2 Octave transposing

With this function you can octave a selected sound.

Func	OCTAVE R1	00
TRANS	SIGNATURE	BAR TIME
0	4/4	00 1:0 1
	A.B.C.	TEMPO
		096
		MEMORY
		0 1- 1

1. ➤ Press **[FUNCTION]** to call up the functions menu.
2. ➤ Use the rotary control to select the **'OCTAVE R1'**, **'OCTAVE R2'** or **'OCTAVE L'** menu to activate the octave function.
3. ➤ Press **[>/YES]/[</NO]** to octave the tuning in a range between -2...+2.
4. ➤ Simultaneously press **[>/YES]** and **[</NO]** to restore the standard settings.

7.4.3 Touch velocity

With this function you can adjust the touch velocity of the keyboard in seven different levels.

Func	TOUCH	Medium1
TRANS	SIGNATURE	BAR TIME
0	4/4	00 1:0 1
	A.B.C.	TEMPO
		096
		MEMORY
		0 1- 1

1. ➤ Press **[FUNCTION]** to call up the functions menu.
2. ➤ Use the rotary control to select the **'TOUCH'** menu to activate the touch velocity function.
3. ➤ Press **[>/YES]/[</NO]** to set the touch velocity.

The following table shows the possible settings.

Off	Soft2	Soft1	Medium 1	Medium 2	Hard1	Hard2
------------	--------------	--------------	-----------------	-----------------	--------------	--------------

4. ➤ Simultaneously press **[>/YES]** and **[</NO]** to restore the standard settings.



The settings are retained even if the digital piano is switched off.

7.4.4 Split point setting

Func	LOWER SPLIT				F#3
TRANS	0	SIGNATURE	4/4	BAR TIME	00 1:01
		TEMPO	096	MEMORY	01-1

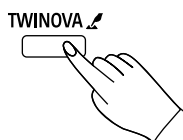
This feature allows you to select a point that splits the entire keyboard into two sections and to assign different voices to those sections. The preset split point is on piano key [F#3].

1. ➤ Press [FUNCTION] to call up the functions menu.
2. ➤ Use the rotary control to select the 'LOWER SPLIT' menu to activate the split point function.
3. ➤ Use [>/YES]/[</NO] to select a desired split point.
The following table shows the possible settings:
4. ➤ Simultaneously press [>/YES] and [</NO] to restore the standard settings.



The settings are retained even if the digital piano is switched off.

7.4.5 TWINOVA



Twinova					
TRANS	0	SIGNATURE	4/4	BAR TIME	00 1:01
		TEMPO	096	MEMORY	01-1

In TWINOVA mode, the keyboard is divided into two areas with the same sound and the same pitch to enable 4-handed playing, for example in class. The preset split point is [E3].

1. ➤ Press [TWINOVA] to activate the TWINOVA mode.


Split point setting

Func	TWINOVA SPLIT				E3
TRANS	0	SIGNATURE	4/4	BAR TIME	00 1:01
		TEMPO	078	MEMORY	01-1

2. ➤ Hold down [TWINOVA] to open the TWINOVA settings menu.
⇒ The display shows 'TWINOVA SPLIT' and the current split point.
3. ➤ Use the rotary control or one of the piano keys to select a desired split point.

Specifying octave

Func	TWINOVA OCTAVE					0
	TRANS	SIGNATURE	BAR TIME	TEMPO	MEMORY	
	0	4/4	00 1:0 1	078	0 1- 1	

4. ➤ Hold down [TWINOVA]  to open the TWINOVA settings menu.
⇒ The display shows 'TWINOVA OCTAVE' and the current octaving.
5. ➤ Press [> / YES] / [< / NO] to octave the tuning in a range between -2...+2.



Layer and Split mode are not available in TWINOVA mode.

Pedal function in TWINOVA mode



Left pedal (soft)	Notes played with the left hand have a longer sustain.
Middle pedal (sostenuto)	All notes have a longer sustain.
Right pedal (sustain)	Notes played with the right hand have a longer sustain.

7.4.6 Harmony mode



Func	HARMONY					Duet
	TRANS	SIGNATURE	BAR TIME	TEMPO	MEMORY	
	0	4/4	00 1:0 1	096	0 1- 1	

In harmony mode, additional intervals are added to the notes played by the right hand.

1. ➤ Press [HARMONY]  to activate the harmony mode.
⇒ The LED of the [HARMONY] button is lit.
2. ➤ Hold down [HARMONY] to open the harmony settings menu.
3. ➤ Use [> / YES] / [< / NO] to select the desired harmony type.
4. ➤ Press [A.B.C.]  to activate the auto accompaniment.
5. ➤ Play a chord with your left hand. As soon as you play a note with your right hand, the left hand harmony is automatically added.
6. ➤ Press [HARMONY] again to deactivate the harmony mode.



The harmony types '1', '5' and 'Octave' are always available. Other harmony types are not available until the auto accompaniment is activated and you play a chord with your left hand.

7.4.7 Equalizer

Func	EQ					Piano
TRANS	SIGNATURE	BAR TIME	TEMPO	MEMORY		
0	4/4	00 1:0 1	096	0 1- 1		

The built-in equalizer provides a total of six presets, which can be customized.

1. ➤ Press **[FUNCTION]** to call up the functions menu.
2. ➤ Use the rotary control to select the 'EQ' menu to activate the equalizer function.
3. ➤ Press **[>/YES]**/**[</NO]** to select the desired setting.

The following table shows the possible settings:

Piano	Pop	Classical	Rock	Jazz	R&B
--------------	------------	------------------	-------------	-------------	----------------

4. ➤ Simultaneously press **[>/YES]** and **[</NO]** to restore the standard settings.



The settings are retained even if the digital piano is switched off.

7.4.8 String resonance

Func	STRING RES.					8
TRANS	SIGNATURE	BAR TIME	TEMPO	MEMORY		
0	4/4	00 1:0 1	096	0 1- 1		

This function simulates the resonance effects taking place in an acoustic piano.

1. ➤ Press **[FUNCTION]** to call up the functions menu.
2. ➤ Use the rotary control to select the 'STRING RES.' menu to activate the string resonance.
3. ➤ Press **[>/YES]**/**[</NO]** to adjust the string resonance in a range of 0...32.
4. ➤ Simultaneously press **[>/YES]** and **[</NO]** to restore the standard settings.



The settings are retained even if the digital piano is switched off.

7.4.9 Soft pedal

Func	SOFT PEDAL					SOFT
	TRANS	SIGNATURE	BAR TIME	TEMPO	MEMORY	
	0	4/4	00 1:0 1	096	0 1- 1	

You can assign various functions to the soft pedal.

1. ➤ Press **[FUNCTION]** to call up the functions menu.
2. ➤ Use the rotary control to select the **'SOFT PEDAL'** menu to open the menu for the soft pedal settings.
3. ➤ Press **[>/YES]**/**[</NO]** to select the soft pedal settings.

The following table shows the possible settings:

Function	Description
Soft	Makes the notes sound softer
Play	Starts or stops the playback of a style.
Memory	Toggles between the memory locations.

4. ➤ Simultaneously press **[>/YES]** and **[</NO]** to restore the standard settings.

7.4.10 Freeze




Func	FREEZE					Style
	TRANS	SIGNATURE	BAR TIME	TEMPO	MEMORY	
	0	4/4	00 1:0 1	096	0 1- 1	

This function does not change the settings of styles, sounds or songs, even if another memory function is called up.

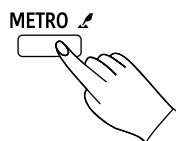
1. ➤ Press **[FUNCTION]** to call up the functions menu.
2. ➤ Use the rotary control to select the **'FREEZE'** menu to activate the freeze function.
3. ➤ Press **[>/YES]**/**[</NO]** to select the freeze settings.

The following table shows the possible settings:

Function	Description
Style	The style settings are not changed when the memory is called up.
Voice	The sound settings are not changed when the memory is called up.
Song	The song settings are not changed when the memory is called up.

4. ➤ Simultaneously press **[>/YES]** and **[</NO]** to restore the standard settings.
5. ➤ Press **[FREEZE]**  to activate the freeze function.
 - ⇒ The LED of the **[FREEZE]**  button lights up. The settings you made for styles, sounds and songs are not changed.
6. ➤ Press **[FREEZE]**  again again to deactivate the freeze function.

7.4.11 Metronome



Func	METRO					4/4
	TRANS	SIGNATURE	BAR TIME	TEMPO	MEMORY	
	0	4/4	00 1:0 1	096	0 1- 1	

1. ➤ Press **[METRO]** to activate the metronome.
⇒ The display shows 'METRO' and flashes in time.
2. ➤ Hold down **[METRO]** to enter the metronome settings menu.
3. ➤ Use **[>/YES]**/**[</NO]** to select the desired beat.
4. ➤ Press **[METRO]** to deactivate the metronome.



- If you turn on the metronome while a style is playing, it will start with the next beat and the tempo will adapt to the current style.
- The metronome can be used during a MIDI recording. The sound of the metronome is not recorded.
- The metronome can be used during an audio recording. The sound of the metronome is also recorded.

7.4.12 Fade time

Func	FADE TIME					10
	TRANS	SIGNATURE	BAR TIME	TEMPO	MEMORY	
	0	4/4	00 1:0 1	096	0 1- 1	

This function allows you to set the time for the slow fade in and slow fade out of the sound.

1. ➤ Press **[FUNCTION]** to call up the functions menu.
2. ➤ Use the rotary control to select the 'FADE TIME' menu to open the menu for the fade time settings.
3. ➤ Press **[>/YES]**/**[</NO]** to set the fade time in a range between 1...20 seconds.
4. ➤ Simultaneously press **[>/YES]** and **[</NO]** to restore the standard settings.

7.4.13 MIDI out channel

Func	MIDI OUT CH					01
	TRANS	SIGNATURE	BAR TIME	TEMPO	MEMORY	
	0	4/4	00 1:0 1	096	0 1- 1	

With this function you can set the MIDI out channel for the sound R1.

1. ➤ Press **[FUNCTION]** to call up the functions menu.
2. ➤ Use the rotary control to select the 'MIDI OUT CH' menu to open the menu for the MIDI out settings.
3. ➤ Press **[>/YES]**/**[</NO]** to set a MIDI out channel in a range between 1...16.
4. ➤ Simultaneously press **[>/YES]** and **[</NO]** to restore the standard settings.



The settings are retained even if the digital piano is switched off.

7.4.14 Loop function

Func	SONG LOOP					All
	TRANS	SIGNATURE	BAR TIME	TEMPO	MEMORY	
	0	4/4	00 1:0 1	096	0 1- 1	

This function enables the repeat of a playback.

1. ➤ Press **[FUNCTION]** to call up the functions menu.
2. ➤ Use the rotary control to select the 'SONG LOOP' menu to open the menu for the loop settings.
3. ➤ Press **[>/YES]**/**[</NO]** to select the loop settings.

The following table shows the possible settings:

Function	Description
Single	A single song is repeated in an endless loop.
All	All songs are repeated in an endless loop.
Off	The loop function is deactivated.

4. ➤ Simultaneously press **[>/YES]** and **[</NO]** to restore the standard settings.



The settings are retained even if the digital piano is switched off.

7.4.15 Automatic shutoff

Func	POWER OFF					30 min
	TRANS	SIGNATURE	BAR TIME	TEMPO	MEMORY	
	0	4/4	00 1:0 1	096	0 1- 1	

When the digital piano is not being used for 30 minutes, it switches off automatically. By default, the automatic switch-off is activated.

1. ➤ Press **[FUNCTION]** to call up the functions menu.
2. ➤ Use the rotary control to select the menu item 'POWER OFF'.
3. ➤ Use **[>/YES]**/**[</NO]** a desired time for the digital piano to switch off automatically (30 minutes or 60 minutes) or deactivate the automatic switch-off.



The settings are retained even if the digital piano is switched off.

7.4.16 Bluetooth®

Func	BLUETOOTH AUTO On					
	TRANS	SIGNATURE	BAR TIME	TEMPO	MEMORY	
	0	4/4	00 1:01	096	01-1	

With this function you set whether the Bluetooth® connection is established automatically. Once a Bluetooth®-enabled device is successfully paired, the piano can automatically establish the connection as soon as the device comes within range.

1. ➤ Press [FUNCTION] to call up the functions menu.
2. ➤ Use the rotary control to select the 'BLUETOOTH AUTO' menu to open the menu for the Bluetooth® settings.
3. ➤ Press [>/YES]/[</NO] to activate ('On') or deactivate ('Off') the automatic Bluetooth® connection.
4. ➤ Simultaneously press [>/YES] and [</NO] to restore the standard settings.
5. ➤ Activate the Bluetooth® connection on your device and pair it with the digital piano 'PIANO-AUDIO'.



The settings are retained even if the digital piano is switched off.

7.4.17 Reset to factory defaults

Func	SYSTEM RESET					
	TRANS	SIGNATURE	BAR TIME	TEMPO	MEMORY	
	0	4/4	00 1:01	096	01-1	

With this function, you can reset the digital piano to factory default settings.

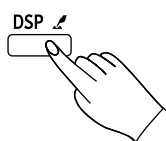
1. ➤ Press [FUNCTION] to call up the functions menu.
2. ➤ Use the rotary control to select the 'SYSTEM RESET' menu to open the menu for resetting to factory default settings.
3. ➤ Press [>/YES].
⇒ The digital piano shows 'Reset all settings?'.
4. ➤ Press [>/YES] to confirm the factory reset.
⇒ All settings are reset.
5. ➤ The display shows 'Delete all user songs?'. Press [>/YES] to confirm deleting the user songs.



The process can take some time. Do not switch off the digital piano during the factory reset.

7.5 DSP effects

With this function you can select various effects (see table) and adjust their intensity.



DSP R1 DSP Type					Hall
TRANS	0	SIGNATURE	4/4	BAT TIME	00 1:01
				TEMPO	096
				MEMORY	01-1

On delivery, the DSP effects are activated by default.

1. ➤ Hold down *[DSP]* to open the menu for the DSP effects settings.
⇒ The display shows the current parameters.
2. ➤ Use the rotary control to select a desired parameter.
3. ➤ Use *[>/YES]*/*[</NO]* to select the desired effect.
4. ➤ Press *[DSP]* to deactivate the DSP effects.

The following table shows the possible settings:

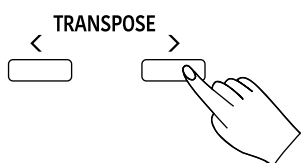
Parameter	Display	Settings
Voice R1 DSP Effect Type	R1 DSP TYPE xxx	Hall, Room, Crs.Dely, Tp.Delay, Tp.Echo, Chorus, Flanger, Phaser, Overdriv, Amp, Metl.Dst, Hard.Dst, Tremolo, Auto.Wah, Tp.Wah, None(Off)
Voice R1 DSP Effect Level	R1 DSP LEVEL xxx	0...32
Voice R1 Global Reverb Level Send	R1 G.REV SEND xxx	0...32
Voice R1 Global Chorus Level Send	R1 G.CHR SEND xxx	0...32
Voice R2 DSP Effect Type	R2 DSP TYPE xxx	Hall, Room, Crs.Dely, Tp.Delay, Tp.Echo, Chorus, Flanger, Phaser, Overdriv, Amp, Metl.Dst, Hard.Dst, Tremolo, Auto.Wah, Tp.Wah, None(Off)
Voice R2 DSP Effect Level	R2 DSP LEVEL xxx	0...32
Voice R2 Global Reverb Level Send	R2 G.REV SEND xxx	0...32
Voice R2 Global Chorus Level Send	R2 G.CHR SEND xxx	0...32
Voice L DSP Effect Type	L DSP TYPE xxx	Hall, Room, Crs.Dely, Tp.Delay, Tp.Echo, Chorus, Flanger, Phaser, Overdriv, Amp, Metl.Dst, Hard.Dst, Tremolo, Auto.Wah, Tp.Wah, None(Off)
Voice L DSP Effect Level	L DSP LEVEL xxx	0...32
Voice L Global Reverb Level Send	L G.REV SEND xxx	0...32
Voice L Global Chorus Level Send	L G.CHR SEND xxx	0...32
Microphone DSP Effect Type	MIC DSP TYPE xxx	Echo1, Echo2, Echo3, Phaser1, Phaser2, Enhanc, Wah, Overdv1, Overdv2, Lo-Fi, Comp, Gate, None(Off)
Microphone DSP Effect Level	MIC DSP LEVEL xxx	0...32
Microphone Global Reverb Level Send	MIC G.REV SEND xxx	0...32
Microphone Global Chorus Level Send	MIC G.CHR SEND xxx	0...32

Parameter	Display	Settings
Global Reverb Type	G.REV TYPE xxx	Hall1, Hall2, Hall3, Hall4, Pno.Hall, Room1, Room2, Room3, Church, Garage, Std.Hall
Global Reverb Level	G.REV LEVEL xxx	0...32
Global Chorus Type	G.CHR TYPE xxx	Chorus1, Chorus2, Chorus3, Chorus4, GM.Chr1, GM.Chr2, Celeste1, Celeste2, Sympho1, Sympho2, Doubler, Std.Chr
Global Chorus Level	G.CHR LEVEL xxx	0...32



If you turn on an effect while a demo piece or style is playing, it may take a short moment for the effect to set in.

7.6 Transposing

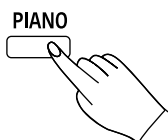


Voice 001 Grand Piano 1					
TRANS	SIGNATURE	BAR TIME	TEMPO	MEMORY	
+ 1	4/4	00 1:0 1	096	0 1- 1	

With this function you can transpose the pitch of the entire keyboard in semitone steps (12 semitone steps at max) up or down.

1. ➤ Press **[TRANSPOSE <]** or **[TRANSPOSE >]** to activate the transpose mode.
⇒ The display shows the current value.
2. ➤ Use the rotary control or **[>/YES]**/**[</NO]** to transpose the keyboard pitch in cent increments by up to 12 semitones up or down.
3. ➤ Simultaneously press **[>/YES]** and **[</NO]** to restore the standard setting.

7.7 Piano mode



Concert Grand					
TRANS	SIGNATURE	BAR TIME	TEMPO	MEMORY	
0	4/4	00 1:0 1	096	0 1- 1	

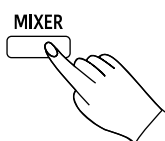
If this function is activated, the keyboard mechanics of a real piano / grand piano are simulated. This mechanical noise can also be heard on a piano.

1. ➤ Press **[PIANO]** to activate the piano mode.
⇒ The display shows 'Concert Grand'.
2. ➤ Press **[PIANO]** again to deactivate the piano mode.



Layer and Split mode are not available in piano mode.

7.8 Mixer



Mixer MUSIC VOL: 20					
TRANS	0	SIGNATURE	4/4	BAR TIME	00 1:01
				TEMPO	096
				MEMORY	0 1-1

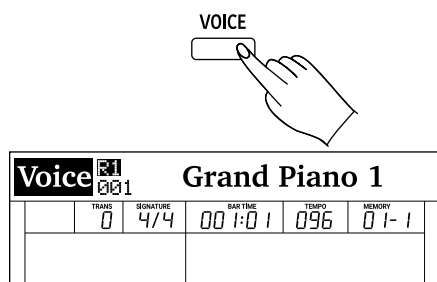
This menu is used to adjust the volume of the individual tracks.

1. ➤ Press **[MIXER]** to open the menu for the mixer settings.
⇒ The display shows the current parameters.
2. ➤ Use the rotary control to select a desired parameter.
3. ➤ Use **[>/YES]/[</NO]** to specify the desired volume in a range from 0 ... 32.

The following table shows the possible settings:

Parameter	Display	Settings
Music volume	MUSIC VOL: xxx	0...32
Voice R1 volume	R1 VOL: xxx	0...32
Voice R2 volume	R2 VOL: xxx	0...32
Voice L volume	L VOL: xxx	0...32
Metronome volume	METRO VOL: xxx	0...32
Mic volume	MIC VOL: xxx	0...32
Rhythm sub. volume	RHYTHM_S VOL: xxx	0...32
Rhythm master volume	RHYTHM_M VOL: xxx	0...32
Bass volume	BASS VOL: xxx	0...32
Chord 1 volume	CHORD1 VOL: xxx	0...32
Chord 2 volume	CHORD2 VOL: xxx	0...32
Chord 3 volume	CHORD3 VOL: xxx	0...32
Phrase 1 volume	PHRASE1 VOL: xxx	0...32
Phrase 2 volume	PHRASE2 VOL: xxx	0...32

7.9 Selecting sounds



The digital piano offers a total of 1200 sounds in 12 categories.

1. ➤ Press [VOICE] to activate the sound mode.
⇒ The display shows 'R1' and the current sound.
2. ➤ Use the rotary control or [>/YES]/[</NO] to select a desired sound.

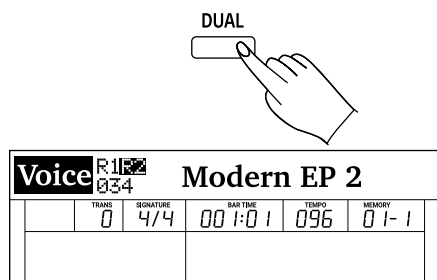
Alternatively, you can use one of the direct sound select buttons to select a preset sound.



The sound list is available for download on the product page on our homepage www.thomann.de.

3. ➤ Simultaneously press [>/YES] and [</NO] to restore the standard setting.
4. ➤ Press [VOICE] again to deactivate the sound mode.

7.10 Layer mode



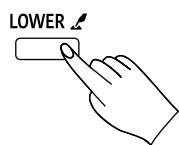
With the layer mode you can set the "layering" of sounds.

1. ➤ Press [DUAL] to activate the layer mode.
⇒ The display shows 'R2' and the current sound of the second layer (right hand).
2. ➤ Use the rotary control or [>/YES]/[</NO] to select a desired sound for the second layer. The sound list is available for download on our homepage www.thomann.de.

Alternatively, you can use one of the direct sound select buttons to select a preset sound.

3. ➤ Simultaneously press [>/YES] and [</NO] to restore the standard setting.
4. ➤ Press [DUAL] again to deactivate the sound mode.

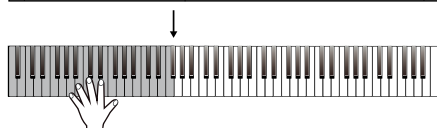
7.11 Split mode



Voice		R1R2		Electric Grand 3	
TRANS	0	SIGNATURE	4/4	BAR TIME	00 1:01
		TEMPO	096	MEMORY	01-1

Split point setting

Func		LOWER SPLIT		F#3	
TRANS	0	SIGNATURE	4/4	BAR TIME	00 1:01
		TEMPO	096	MEMORY	01-1



Switching sounds

Split mode lets you assign a sound to each hand.

1. ➤ Press [LOWER] to activate the split mode.
⇒ The display shows 'L' and the current sound of the "lower voice" (left hand).
2. ➤ Use the rotary control or [>/YES]/[</NO] to select a desired sound for the "Lower Voice". The sound list is available for download on our homepage www.thomann.de.

Alternatively, you can use one of the direct sound select buttons to select a preset sound.

3. ➤ This feature allows you to select a point that splits the entire keyboard into two sections and to assign different sounds to those sections. The preset split point is on piano key [F#3].

Hold down [LOWER] and press a desired piano key that you want to be the split point.

Simultaneously press [>/YES] and [</NO] to restore the standard setting.

4. ➤ The 'R1' sound cannot be switched off. The 'R2' and 'L' sounds can be switched on and off as desired. Press [VOICE] to switch between the selected sounds.
5. ➤ Press [LOWER] again to deactivate the split mode.

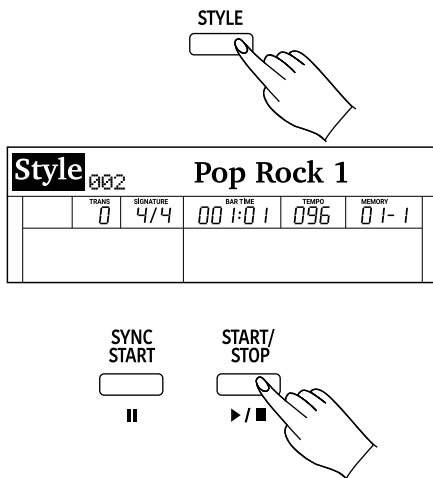


You can set the volume for the sounds 'R1' and 'R2' in the mixer menu (see Chapter 7.8 'Mixer' on page 37).

7.12 Playing with auto accompaniment

Auto Accompaniment allows you to play along to one of the available styles on the digital piano. Depending on the chords you play with your left hand, the auto accompaniment adapts itself. You can also insert an intro, fill and an ending.

7.12.1 Style selection



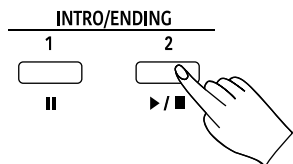
The digital piano offers a total of 270 styles in 12 categories.

1. ➤ Press **[STYLE]** to activate the style mode.
⇒ The display shows the current style.
2. ➤ Use the rotary control or **[>/YES]/[</NO]** to select a desired style (see [Chapter 8 'Style list' on page 53](#)), which serves as an accompaniment track.
Alternatively, you can use one of the direct style select buttons to select a preset style.
3. ➤ Simultaneously press **[>/YES]** and **[</NO]** to restore the standard setting.
4. ➤ Press **[START / STOP]** to start accompaniment track.
Alternatively, press **[SYNC START]** to start the accompaniment track with the first keystroke on the keyboard.
5. ➤ Press **[STYLE]** again to deactivate the style mode.

7.12.2 Accompaniment variation

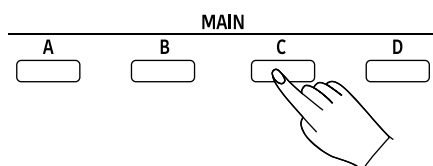
The accompaniment function is controlled via four parameters: INTRO/ENDING, MAIN (A, B, C, D), FILL

Intro / Ending



- Press **[INTRO / ENDING]** prior to start style playing to insert an intro. Press the button while the accompaniment track is playing to insert an Ending after the last bar that matches the accompaniment.

MAIN part



- Before starting style playback, press one of the **[MAIN A]...[MAIN D]** buttons to select a variation of an accompaniment pattern. Each variation is a multi-bar accompaniment pattern that is repeated indefinitely. By pressing the selected MAIN VARIATION button again, a suitable fill is selected.

FILL

The digital piano automatically inserts a suitable fill (fill bar) after the current bar of the style currently being played.



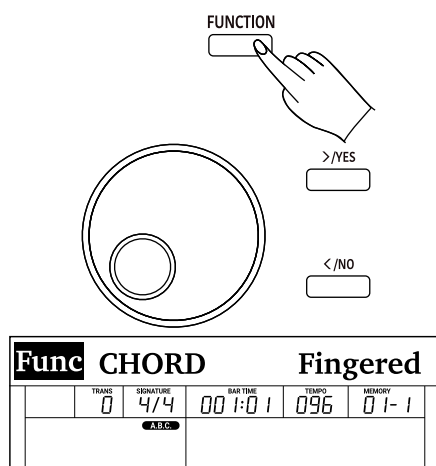
*If you hold down one of the **[MAIN A]...[MAIN D]** buttons while a style is playing, the fill will be repeated until you release the button.*

7.12.3 Chord accompaniment

The chord accompaniment of the digital piano allows you to play chords with your left hand in single or multi mode, bass invert mode or full range mode and to accompany them with the right hand. Alternatively, you can accompany practice pieces and styles in piano mode ambidextrous (chord library see [Chapter 11 'Chord list' on page 60](#)).

With this function you can set the variant of the chord input.

1. ➤ Press [FUNCTION] to call up the functions menu.
2. ➤ Use the rotary control to select the 'CHORD' menu to activate the chord input.
3. ➤ Press [>/YES]/[</NO] to set the variant of the chord input.
4. ➤ Simultaneously press [>/YES] and [</NO] to restore the standard settings.



Single Finger

In this mode, the following chord types are played with one or two fingers of the left hand and taken from the chord library (Example C, Cm, C7 and Cm7):

C 	<ul style="list-style-type: none"> • To play a major chord Press the root note of the chord
Cm 	<ul style="list-style-type: none"> • To play a minor chord Press the root note together with the nearest black key to the left of it .
C7 	<ul style="list-style-type: none"> • To play a seventh chord Press the root note together with the nearest white key to the left of it .
Cm7 	<ul style="list-style-type: none"> • To play a minor seventh chord Press the root notes together with the nearest white and black keys to the left of it (three keys altogether) .

Multi Finger

In this mode, you can play chords with normal fingering. Here we show you 32 chords using the example of C chords:

0 C	1 C ₆	2 C _{M7}	3 C _{M7} (#11)	4 C _M (9)	5 C _{M7} (9)
6 C ₆ (9)	7 C _{aug}	8 C _m	9 C _{m6}	10 C _{m7}	11 C _{m7} (b5)
12 C _m (9)	13 C _{m7} (9)	14 C _{m7} (11)	15 C _m M ₇	16 C _m M ₇ (9)	17 C _{dim}
18 C _{dim7}	19 C ₇	20 C _{7sus4}	21 C ₇ (b5)	22 C ₇ (9)	23 C ₇ (#11)
24 C ₇ (b13)	25 C ₇ (b9)	26 C ₇ (13)	27 C ₇ (#9)	28 C _{M7aug}	29 C _{7aug}
30 C _{sus4}	31 C ₁₊₂₊₅	The notes in brackets are optional; the chords will also be recognised without them.			

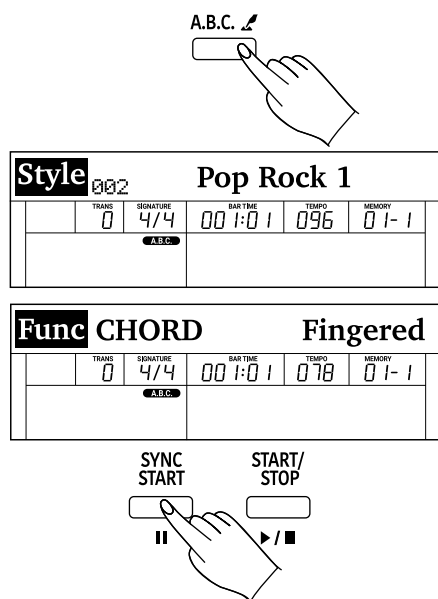
Bass Invert

In this mode the digital piano detects reversals of the bass track. If e.g. the second inversion of a C major chord is played with the left hand (G-C-E), the bass note is a G.

Full Range

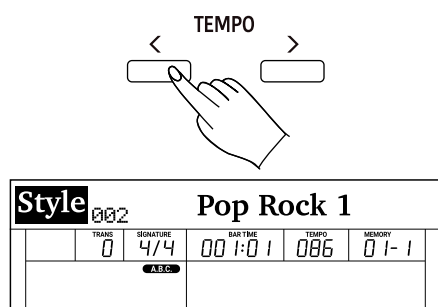
First, set a split point on the keyboard, (see [Chapter 7.4.4 'Split point setting' on page 28](#)). The keyboard area to the left of the split point is the chord area.

Selecting accompany mode



1. ➤ Press [A.B.C.] to activate the auto accompaniment.
⇒ The display shows 'A.B.C.' and the current style.
2. ➤ Press repeatedly [A.B.C.] to switch between the menu items 'A.B.C.' (auto accompaniment on), 'Full Range' (auto accompaniment mode) and 'Off' (auto accompaniment off).
3. ➤ Hold down [A.B.C.] to enter the chord input menu.
4. ➤ Use [>/YES]/[</NO] to select a desired accompaniment mode.
5. ➤ Press [SYNC START] to activate the accompaniment mode.
⇒ The auto accompaniment starts with the first keystroke on the keyboard.
6. ➤ Press [START/STOP] to activate playback of the previously selected style.
⇒ If you play a chord in the left area of the keyboard, the automatic mode for the chords sets in.

7.12.3.1 Accompaniment track tempo



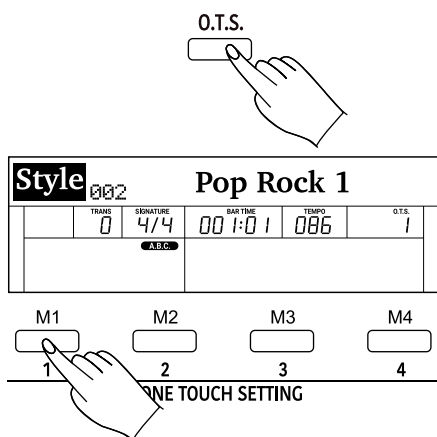
All preprogrammed Styles contain certain Tempo information. These presets can be adjusted at any time.

1. ➤ Press [TEMPO <]/[TEMPO >] to enter the tempo settings menu.
⇒ The tempo value flashes in the display.
2. ➤ Use the rotary control or [>/YES]/[</NO] to select the desired tempo.
3. ➤ Simultaneously press [>/YES] and [</NO] to restore the standard setting.



If the style is changed after stopping a style, the default setting of the tempo is restored. If you change the style during playback, the tempo remains unchanged.

7.13 One Touch Setting (O.T.S)



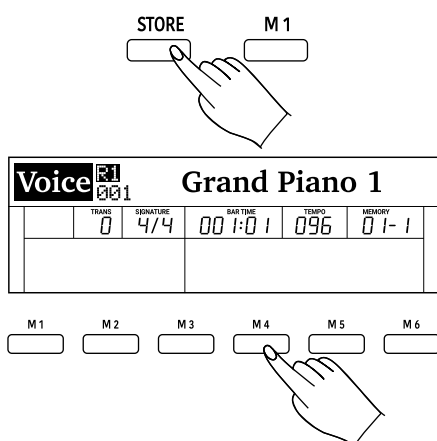
One Touch Setting is a powerful and practical function that allows you to automatically call up the most suitable voices, including effects, etc. for the currently selected style with a single touch of a button. If you have already decided which style you want to use, you can automatically select the appropriate voice via OTS. There are four variations (M1 to M4).

1. ➤ Press *[O.T.S.]* to enter O.T.S. mode. Press one of the buttons *[M1]* to *[M4]* then the instrument loads the corresponding parameter types that match the current style. The ABC mode is automatically turned on at that.
⇒ The display shows 'O.T.S.' and the current style.
2. ➤ Press one of the buttons *[M1]* to *[M4]* that provides your desired settings.
3. ➤ Press *[O.T.S.]* 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
 - Pan voice R1, R2, L

7.14 Memory function

With this function you can save all the settings you have made and call them up again with a single push of a button.

Saving settings



1. ➤ Hold down *[STORE]* and press one of the *[M1]...[M6]* buttons to save the current settings in the respective memory location (M1 to M6).

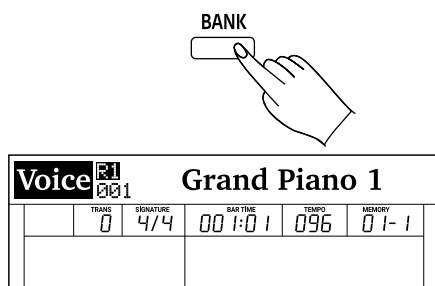


Note that the previous settings will be overwritten.

Loading settings

2. ➤ Press one of the buttons *[M1]* to *[M6]* that provides your desired settings.

Selecting memory bank



3. ➤ Press **[BANK]** to enter the memory bank settings menu.
⇒ The display shows the currently selected memory bank.
4. ➤ Use the rotary control to select the desired memory bank.
Alternatively, you can press repeatedly **[BANK]** to select the desired memory bank.

7.15 MIDI recording

With the digital piano you can record and save a MIDI recording as a user song.

7.15.1 Recording settings

1. ➤ Hold down **[REC]** to open the recording settings menu.
2. ➤ Use the rotary control to select the 'Rec' menu.
3. ➤ Press **[>/YES]/[</NO]** to select the recording settings.
⇒ The digital piano is now record-enabled.

The following table shows the possible settings:

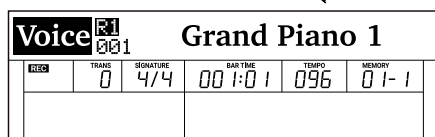
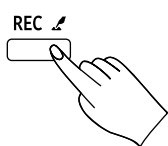
Parameter	LCD	Settings
Record Type Setting	Record Type: xxx	MIDI, MP3
MIDI Recording Channel 1	Ch1:R1 xxx	On, Off
MIDI Recording Channel 2	Ch2:R2 xxx	On, Off
MIDI Recording Channel 3	Ch3:L xxx	On, Off
MIDI Recording Channel 4	Ch4:MIDI Ch4 xxx	On, Off
MIDI Recording Channel 5	Ch5:MIDICh5 xxx	On, Off
MIDI Recording Channel 6	Ch6:MIDICh6 xxx	On, Off
MIDI Recording Channel 7	Ch7:MIDICh7 xxx	On, Off
MIDI Recording Channel 8	Ch8:MIDICh8 xxx	On, Off
MIDI Recording Channel 9	Ch9:Rhythm_s xxx	On, Off
MIDI Recording Channel 10	Ch10:Rhythm_m xxx	On, Off
MIDI Recording Channel 11	Ch11:Bass xxx	On, Off
MIDI Recording Channel 12	Ch12:Chord1 xxx	On, Off

Parameter	LCD	Settings
MIDI Recording Channel 13	Ch13:Chord2 xxx	On, Off
MIDI Recording Channel 14	Ch14:Chord3 xxx	On, Off
MIDI Recording Channel 15	Ch15:Phrase1 xxx	On, Off
MIDI Recording Channel 16	Ch16:Phrase2 xxx	On, Off
Saving the MIDI Recording To	MIDI Save To: xxx	Internal Flash, USB Flash



- The settings for the 'Record Type Setting' and 'Saving the MIDI Recording To' parameters can only be changed if a USB flash drive (USB stick) is inserted. For more information, see Chapter 7.19 'USB flash drive (USB stick)' on page 51.
- If you have used a DSP effect during MIDI recording, the preset DSP effects for sounds R1, R2 and L will be deactivated during MIDI playback and cannot be changed. They are reactivated as soon as you pause or quit MIDI playback or exit MIDI mode.
- If you are using channels 4...8 for recording, connect an external MIDI keyboard or a similar MIDI drive via the MIDI or USB socket and adjust the MIDI out channels accordingly.

7.15.2 Recording preparation



1. ➤ Press [REC] to activate the standby mode.

⇒ The LED of the [REC] button and the 'REC' indicator flash in the display.



If a USB flash drive (USB stick) is connected, hold down [REC] to open the settings menu and select 'MIDI' as the recording mode.

You can also choose whether you want to save the recording in the piano or on the USB flash drive (USB stick). When you have finished the settings, press [REC] to activate the standby mode.

2. ➤ In standby mode you can make settings for sound, style, tempo, etc.
3. ➤ Press [REC] again to deactivate the standby mode.

7.15.3 Start recording

- When in standby mode, press [START / STOP] to start recording directly.

Alternatively, you can start playing the keyboard to start recording.

⇒ The LED of the [REC] button and the 'REC' indicator light up in the display.



When the memory is full, the recording is automatically ended and saved.

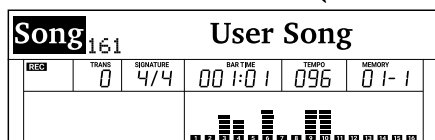
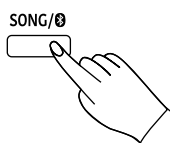
7.15.4 Stopping recording

- Press **[REC]** while recording to stop recording.
 - ⇒ The LED of the **[REC]** button and the 'REC' indicator in the display turn off.

7.15.5 Playing recording

There are two ways to play a recording.

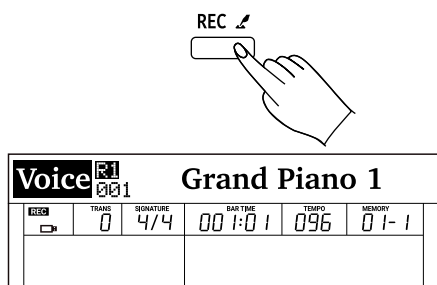
1. ➤ Press **[REC]** while recording to stop recording.
 - ⇒ The LED of the **[REC]** button and the 'REC' indicator in the display turn off.
2. ➤ Press **[START / STOP]** to play the recording you just saved.
3. ➤ When in standby mode, press **[SONG]/** to call up the song mode.
4. ➤ Use the rotary control to select the 'Song' menu.
5. ➤ Press **[>/YES]/[</NO]** to select the user song.
6. ➤ Press **[START / STOP]** to play the recording.



7.16 Audio recording

You can use the digital piano to make audio recordings and save them in MP3 format on a USB flash drive (USB stick).

7.16.1 Start recording

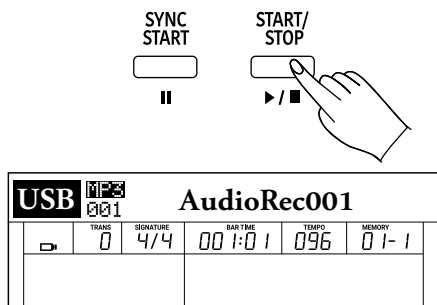


1. ➤ Connect a USB flash drive (USB stick) to the USB port provided.
⇒ The USB flash drive indicator lights up.
2. ➤ Press [REC] to start recording.
⇒ The LED of the [REC] button and the 'REC' indicator light up in the display.



While recording, you can use the auto accompaniment and microphone, play songs and demo pieces or music via the [AUX IN] socket. All functions are recorded as well.

7.16.2 Stopping recording



1. ➤ While recording, press [REC] to stop recording.
⇒ The LED of the [REC] button and the 'REC' indicator in the display turn off. The recording is saved automatically.
2. ➤ Press [START / STOP]

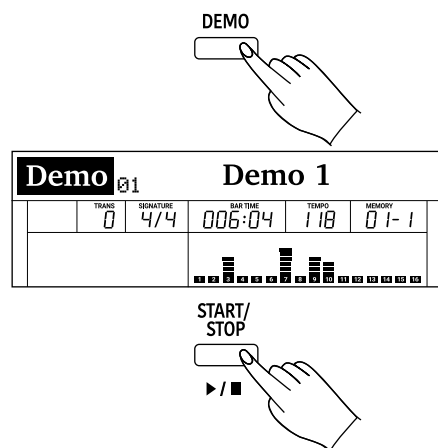


Note that the USB flash drive (USB stick) must not be removed from the digital piano while data is being saved or read, otherwise the USB flash drive (USB stick) may be damaged.

7.16.3 Playing a recording

- Press [START / STOP] to play the recording.

7.17 Demo pieces

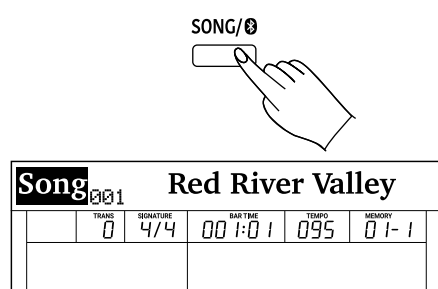


The digital piano offers a total of three demo songs. The demo songs show the sound and the pitch range of the digital piano.

1. ➤ Press **[DEMO]** to activate the demo mode.
 - ⇒ All demo songs are repeated continuously. The display shows the currently playing demo song.
2. ➤ Use the rotary control or **[>/YES]/[</NO]** to select a desired demo song (see [Chapter 10 'Demo pieces' on page 59](#)).
3. ➤ Press **[START/STOP]** to deactivate the demo mode.

7.18 Practising songs

7.18.1 Playing back practise songs



The digital piano offers a total of 90 practise songs.

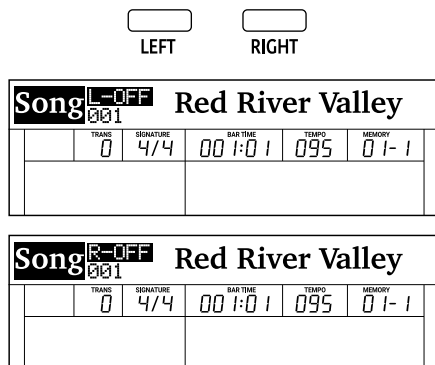
1. ➤ Press **[SONG]/0** to activate the song mode.
 - ⇒ The display shows the currently playing practise song.
2. ➤ Use **[>/YES]/[</NO]** to select a desired practise song (see [Chapter 9 'Song list' on page 57](#)).
3. ➤ Press **[START/STOP]** to play the practise song.
4. ➤ Press **[START/STOP]** to stop practise song playback.
5. ➤ Hold down **▶▶** to search forward in the practise song.
6. ➤ Hold down **◀◀** to skip back bar by bar.
7. ➤ Hold down **||** to pause practise song playback.
8. ➤ Press **◀** while playing the practise song to play the practice song in a loop.
9. ➤ Press **◀** while the practise song is playing to play all available practice songs in a loop.

Playback control



– When the Bluetooth® function is activated, press **[SONG]** to activate the Bluetooth® mode. Press **[SONG]** again to return to song mode.

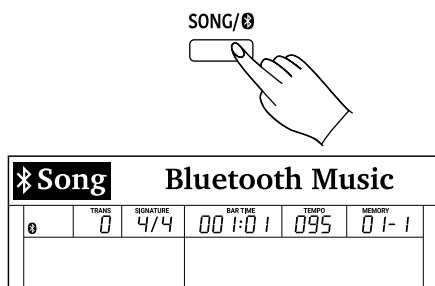
7.18.2 Practising practise songs



When practising the practise songs, the melody tracks of the left and right hands can be muted.

1. ➤ Press **[LEFT]** to mute the left hand melody track.
⇒ The display shows the currently playing practice song and the indicator 'L-OFF' lights up.
2. ➤ Press **[RIGHT]** to mute the right hand melody track.
⇒ The display shows the currently playing practice song and the indicator 'R-OFF' lights up.

7.18.3 Playing back Bluetooth® practise songs

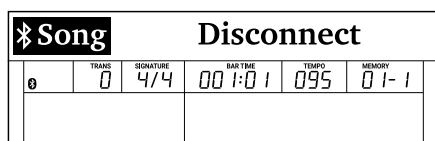


1. ➤ After successful pairing (see [Chapter 7.4.16 'Bluetooth®' on page 34](#)) with a Bluetooth®-enabled device, you can play practice pieces in Bluetooth® mode.
2. ➤ Press **[SONG]/Bluetooth** to activate the Bluetooth® mode.
⇒ The display shows 'Bluetooth Music' and the indicator Bluetooth lights up.
3. ➤ Press **[START/STOP]** to play the practise song.
4. ➤ Press **[START/STOP]** to stop practise song playback.



– Press **[SONG]** to switch back to song mode.

7.18.4 Disconnecting Bluetooth® connection

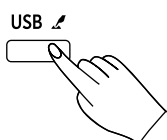


1. ➤ Use the rotary control to select the 'Disconnect' menu.
2. ➤ Press **[>/YES]**.
⇒ The digital piano shows 'Disconnect Bluetooth?'.
3. ➤ Press **[>/YES]** to confirm the disconnection of the Bluetooth® connection.

7.19 USB flash drive (USB stick)

The digital piano detects USB flash drives (USB sticks) in sizes between 32 MB and 128 GB, which are FAT32 formatted and not partitioned. We recommend formatting the USB flash drive (USB stick) before using the digital piano. A USB flash drive (USB stick) in FAT 32 format supports up to 512 files in its root directory.

7.19.1 Playing songs




USB		MP3		AudioRec001	
TRANS	0	SIGNATURE	4/4	BAR TIME	00 1:01
				TEMPO	096
				MEMORY	01-1

Playback control


1. ➤ Press **[USB]** to activate the USB menu.
⇒ The display shows 'MIDI' and 'USB'.
2. ➤ Use the rotary control or **[>/YES]**/**[</NO]** to select a desired piece from the USB flash drive (USB stick).
3. ➤ Press **[START/STOP]** to play that song from the USB flash drive (USB stick).
4. ➤ Press **[START/STOP]** again to stop playing the track from the USB flash drive (USB stick).
5. ➤ Hold down **▶▶** to search forward in the track from the USB flash drive (USB stick).
6. ➤ Hold down **◀◀** to skip back bar by bar.
7. ➤ Hold down **||** to pause the playback of the track from the USB flash drive (USB stick).
8. ➤ Press **⌂** while playing the track from the USB flash drive (USB stick) to play the track in an endless loop.
9. ➤ Press **⌂** while playing the track from the USB flash drive (USB stick) to play all available tracks in an endless loop.

7.19.2 Saving songs

USBMenu		Save MIDI			
	TRANS 0	SIGNATURE 4/4	BAR TIME 00 1:01	TEMPO 096	MEMORY 01-1


1. ➤ Hold down **[USB]** to activate the USB menu.
2. ➤ Use the rotary control to select the 'Save MIDI' menu.
3. ➤ Press **[>/YES]** to save the track in the root directory of the USB flash drive (USB stick).
⇒ The display shows the name of the saved song ('UserSong00X_YYMMDD_NUB.MIDI'). If the track to be saved does not contain any data, the display shows 'NoFile!'.
4. ➤ After successful saving, the display shows 'User song save successful!'.

7.19.3 Loading songs

USBMenu		Load MIDI				
	TRANS	SIGNATURE	BAR TIME	TEMPO	MEMORY	
	0	4/4	00 1:01	096	0 1-1	

1. ➤ Hold down [USB] to activate the USB menu.
2. ➤ Use the rotary control to select the 'Load MIDI' menu.
3. ➤ Press [>/YES].
 - ⇒ The display shows all available tracks in the root directory of the USB flash drive (USB stick).
4. ➤ Select the desired track with the rotary control and press [>/YES] to confirm the selection.
 - ⇒ The display shows 'Load MIDI Successful!'.
5. ➤ If the selected track does not contain any data, the display shows 'Overwrite the User Song?'. If you want to overwrite the selected track, press [>/YES]. If you don't want to overwrite the selected track, press [</NO].
6. ➤ After the loading process, the display returns to the USB menu.

7.19.4 Formatting

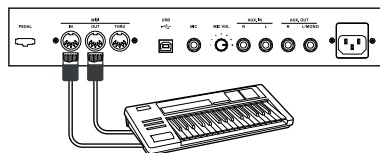
USBMenu		Load MIDI			
	TRANS	SIGNATURE	BAR TIME	TEMPO	MEMORY
	0	4/4	00 1:01	096	0 1-1

1. ➤ Hold down [USB] to activate the USB menu.
2. ➤ Use the rotary control to select the 'Format USB' menu.
3. ➤ Press [>/YES].
 - ⇒ The display shows 'Format USB Flash Drive?'.
4. ➤ Press [>/YES] to format the USB flash drive (USB stick). Press [</NO] to cancel the process.
5. ➤ After formatting, the display returns to the USB menu.



The process can take some time. Do not switch off the digital piano during formatting.

7.20 MIDI connection



With MIDI connections, the device that controls another device is called the Master. A device that is controlled via MIDI is called Slave. The output [MIDI OUT] of the master is to be connected to the input [MIDI IN] of the slave

8 Style list

No.	Style	No.	Style	No.	Style
8BEAT & 16BEAT		030	16Beat Pop 3	059	Rock Shuffle
001	8Beat Pop 1	031	16Beat Pop 4	060	Rock&Roll 2
002	Pop Rock 1	032	Modern 16Beat	POP & BALLAD	
003	8Beat Rock	033	16Beat Hot	061	Sweet Ballad
004	8Beat Ballad	034	16Beat Modern	062	Piano Ballad
005	Pop Jazz	035	16Beat Funk 3	063	BriPop 1
006	8Beat 1	036	16Beat 3	064	6-8Ballad
007	8Beat Pop 2	037	Cool Beat	065	Unplugged
008	Pop Funk 1	038	16Beat Ballad 2	066	Pop Rock 4
009	Rhythm&Beat 1	039	16Beat 4	067	Pop Dance 1
010	8Beat Disco 1	040	Pop Shuffle	068	Pop Fusion
011	Guitar Pop 1	ROCK		069	Analog Night 1
012	Guitar Pop 2	041	Blues Rock	070	6/8 Pop
013	8Beat 2	042	Hard Rock	071	Brit. Pop 1
014	Sweet Beat	043	Rock	072	Brit. Pop 2
015	8Beat Dance	044	New Wave	073	Pop Hit
016	8Beat Disco 2	045	80's metal	074	Fusion Shuffle
017	Pop Funk 2	046	Ska	075	Analog Night 2
018	8Beat 3	047	Pop Rock 2	076	Guitar Pop 3
019	60's 8Beat	048	Pop Rock 3	077	Pop Beat
020	Rhythm&Beat 2	049	Standard Rock	078	Soft Beat
021	16Beat 1	050	Slow Rock	079	60's Pop
022	16Beat Funk 1	051	70's Rock&Roll	080	Sting Latin
023	16Beat Ballad 1	052	Folk Rock	081	R&B Ballad 1
024	16Beat R&B	053	Soft Rock	082	Guitar Ballad
025	16Beat Pop 1	054	Old Rock	083	Ballad Rock
026	16Beat Funk 2	055	Easy Rock	084	Piano Pop 1
027	16Beat Dance	056	New Shuffle	085	Soft Ballad
028	16Beat Pop 2	057	Rock Hip Hop	086	Natural Ballad
029	16Beat 2	058	Rock&Roll 1	087	Love Ballad

No.	Style	No.	Style	No.	Style
088	Easy Ballad	DANCE		145	Gospel Swing
089	Miami Folk	117	Techno 1	146	Gospel
090	Slow Ballad	118	Hip Hop 1	147	Funk 2
091	Folk Ballad	119	House 1	148	Electric Funk
092	Pop Ballad 1	120	House 2	149	Groove Funk
093	Pop Ballad 2	121	Pop Dance 2	150	Rubber Funk
094	EP Ballad	122	Down Beat	151	Cool Funky
095	New R&B Ballad	123	Progressive House	152	Jazz Funk
BALLROOM		124	Dubstep	153	Groove
096	Tango 1	125	Techno 2	154	Soul
097	Spain Matador	126	Progressive	155	Hip Hop Soul
098	Twist 1	127	Rap 1	156	Hip Hop Beat
099	Twist 2	128	Rap 2	157	R&B
100	Big Band Fox	129	Disco	158	Soul Beat
101	Tango 2	130	Soft Disco	159	R&B Ballad 2
102	Tango 3	131	Disco Party	160	British Soul Pop
103	Slow Fox	132	70's Disco	SWING & JAZZ	
104	Slow Waltz 1	133	70's Disco Funk	161	Modern Big Band
105	Swing Fox	134	Club Dance	162	Gospel Swing
106	Salsa 1	135	Euro Dance	163	Piano Jazz
107	Pop Cha Cha	136	Hip Hop 2	164	Smooth Jazz
108	Cha Cha 1	137	Garage	165	Smooth Operator
109	Cha Cha 2	SOUL & FUNK		166	Latin Jazz 1
110	Beguine 1	138	Pop funk	167	Big Band
111	Beguine 2	139	New R&B	168	Dixieland 1
112	Rumba 1	140	Pop R&B	169	Guitar Swing 1
113	Samba 1	141	Neo-Soul	170	Broadway Big Band
114	Samba 2	142	Funk 1	171	Swing
115	Jive	143	Classic Funk	172	Latin Jazz 2
116	Fox Trot	144	Jay R&B	173	Fusion

No.	Style	No.	Style	No.	Style
174	Acid Jazz	LATIN & LATIN DANCE		230	Jazz Waltz
175	Cool Jazz Ballad	202	Samba 3	231	Polka
176	Swing Shuffle	203	Bossa Nova	232	6/8 March
177	Big Band Medium	204	Latin	233	German Polka
178	Dixieland 2	205	New Reggae	234	Party Polka
179	Acoustic Jazz	206	Reggae Dance	235	Army March
180	Guitar Swing 2	207	Paso Doble	236	March
181	Ragtime	208	Lite Bossa	237	US March
182	Modern Jazz Ballad	209	Latin Rock	238	Musette
183	Swing Ballad	210	Beguine 3	239	French Musette
184	Orchestra Swing	211	Slow Bolero	240	Mazurka
COUNTRY		212	Disco Samba	WORLD	
185	Ballad Country 1	213	Mambo	241	Enka Ballad
186	70's Country Rock	214	Meneito	242	Laendler
187	Ballad Country 2	215	Rumba 2	243	Hawaiian
188	Modern Country 1	216	Rumba 3	244	Sirtake
189	Dixie Chicks	217	Tikitikita	245	Dangdut
190	Country Pop 1	218	Lambada	246	6/8 Flipper
191	Bluegrass 1	219	Pop Cha Cha 1	247	New Age
192	Bluegrass 2	220	Pop Cha Cha 2	248	Tarantella
193	8Beat Country	221	Salsa 2	249	Scottish
194	Modern Country 2	WALTZ & TRADITIONAL		250	Norteno
195	Country Pop 2	222	Waltz	PIANIST	
196	Country Pop 3	223	Old Waltz	251	Pianist 1
197	Bluegrass 3	224	English Waltz	252	Pianist 2
198	2/4 Country	225	German Waltz	253	Pianist 3
199	Country Quick Steps	226	Italian Mazurka	254	Jazz 1
200	Country Folk	227	Waltz	255	Jazz 2
201	Country Shuffle	228	Vienna Waltz	256	Jazz Pub
		229	Slow Waltz 2	257	Piano Rock

Style list

No.	Style	No.	Style	No.	Style
258	Pop Bossa	263	Blues	267	Ballad 2
259	March 1	264	Pop Waltz	268	6/8 Ballad
260	March 2	265	Slow Waltz	269	Pop 1
261	Piano Beat	266	Ballad 1	270	Pop 2
262	Piano Bar				

9 Song list

No.	Song	No.	Song	No.	Song
FOLK & COUNTRY		26	Happy New Year	51	Neapolitan Song
01	Red River Valley	27	It's Beginning To Look A Lot Like Christmas	52	Waltzes
02	Troika	28	Jeanie With The Light Brown Hair	53	Turkish March
03	Oh! Susanna!	29	Music Box Dancer	54	Schos Doll's Dance No. 2
04	Wave Of The Danube	30	Go Tell It On The Mountain	55	Minuet In D Major
05	Long Long Ago	31	Entertainer	56	Inquietude
06	Old Folks at Home	32	Annie Laurie	57	Italian Polka
07	Jambalaya	33	Rumba Romance	58	Moment Musical
08	Ding! Dong! Merrily On High	34	The Last Rose Of Summer	59	Prelude In C-Sharp Major
09	Battle Hymn Of The Republic	35	The Old King Cole	60	The Happy Farmer
10	The Old Gray Mare	JAZZ & FUSION		61	The Rag-Time Dance
11	American Patrol	36	Samba In June	62	Piano Sonata In C Major, K.330. III
12	Christmas Is Coming	37	radio	63	Mazurka
13	Sippin' Cider Through A Straw	38	I Can...	64	Prelude In E Major
14	Christmas Sound	39	Sea Shore	65	Piano Sonata In A Major, K.331. I
15	On London Bridge	40	Guitar&Saxphone	66	Waltz For Piano In g-Sharp Minor
GOLDEN & POP		41	The Hip Hop's Night	67	Gavotte
16	House Of The Rising Sun	42	Blue Lunch	68	L' Arabesque
17	The Blue Bells Of Scotland	43	Cobweb	69	Austria Variation
18	Beautiful Dreamer	44	Wine	70	Schos Doll's Dance No. 7
19	It's Been A Long, Long Time	45	Jazz Old Man	71	To A Wild Rose
20	O Sole Mio	46	Dark Eyes	72	Gavotte I
21	Der Deitcher's Dog	47	Carlos	73	Waltz
22	Joy To The World	48	Sad	74	Minuet In G Major (BWV Anh. 116)
23	Silent Night	PIANO		75	Innocence
24	Ave Maria	49	Lyrical Rondo	76	Tchaikovsky Waltz
25	Five Hundred Miles	50	Rialto Ripples (Rag)	77	Salut d' Amour

Song list

No.	Song	No.	Song	No.	Song
78	Barcarolle	83	Barcarolle	87	The Return
79	Robot Doll	84	Norwegian Dance No.2	88	The Wagtail
80	Consolation	85	Moseta Dance	89	Bulie Dance
81	2-Part Invention #13 In A Minor.B.W. Iii	86	The Small Gathering	90	Tender Blossom
82	Minuet In G Major (BWV Anh. 114)				

10 Demo pieces

No.	Name	Display
1	Demo1	Demo1
2	Demo2	Demo2
3	Demo3	Demo3

11 Chord list

	Chord name [abbreviation]	Normal chord structure	Chord symbol	Display
0	Major chord [M]	1–3–5	C	C
1	Major six-five chord [6]	1–(3)–5–6	C6	C6
2	Major seventh chord with major seventh [M7]	1–3–(5)–7	CM7	CM7
3	Major seventh chord with augmented eleventh [M7#11]	1–(2)–3–#4–(5)–7	CM7#11	CM7#11
4	Major chord with additional ninth [Madd9]	1–2–3–5	Cmadd9	CM(9)
5	Major seventh chord with ninth [M9]	1–2–3–(5)–7	CM9	CM7(9)
6	Major sixth-ninth chord [6 9]	1–2–3–(5)–6	C6 9	C6(9)
7	Augmented chord [aug]	1–3–#5	Caug	C6 9
8	Minor chord [m]	1–b3–5	Cm	Cm
9	Minor six-five chord [m6]	1–b3–5–6	Cm6	Cm6
10	Minor seventh chord with flat seventh [M7]	1–b3–(5)–b7	Cm7	Cm7
11	Flat minor seventh chord with diminished fifth [m7b5]	1–b3–b5–b7	Cm7b5	Cm7b5
12	Minor chord with additional ninth [madd9]	1–2–b3–5	Cmadd9	Cm(9)
13	Minor ninth chord [m9]	1–2–b3–(5)–b7	Cm9	Cm7(9)
14	Minor eleventh chord [m11]	1–(2)–b3–4–5–(b7)	Cm11	Cm7(11)
15	Minor seventh chord with major seventh [mM7]	1–b3–(5)–7	CmM7	CmM7
16	Minor seventh chord with ninth [mM9]	1–2–b3–(5)–7	CmM9	CmM7(9)
17	Diminished chord [dim]	1–b3–b5	Cdim	Cdim
18	Diminished seventh chord [dim7]	1–b3–b5–6	Cdim7	Cdim7
19	Major seventh chord with flat seventh [7]	1–3–(5)–b7	C7	C7
20	Flat major seventh chord with suspended fourth [7sus4]	1–4–5–b7	C7sus4	C7sus4
21	Flat major seventh chord with diminished fifth [7b5]	1–3–b5–b7	C7b5	C7b5
22	Flat major seventh ninth chord [79]	1–2–3–(5)–b7	C7 9	C7(9)
23	Flat major seventh chord with augmented eleventh [7#11]	1–2–3–#4–(5)–b7 or 1–(2)–3–#4–5–b7	C7#11	C7(#11)
24	Flat major seventh chord with thirteenth [7 13]	1–3–(5)–6–b7 or 2–3–5–6–b7	C7 13	C7(13)
25	Flat major seventh chord with diminished ninth [7b9]	1–b2–3–(5)–b7	C7b9	C7(b9)

	Chord name [abbreviation]	Normal chord structure	Chord symbol	Display
26	Flat major seventh chord with diminished thirteenth [7b13]	1-3-5-b6-b7	C7b13	C7(b13)
27	Flat major seventh chord with augmented ninth [7#9]	(1)-#2-3-(5)-b7	C7#9	C7(#9)
28	Major seventh chord with augmented fifth [M7aug]	1-3-#5-7	CM7aug	CM7aug
29	Flat major seventh chord with augmented fifth [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

12 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	Mode 3	
	Altered	*****	No	
Note Number	Note	0 – 127	0 – 127	
	True voice	*****	0 – 127	
Velocity	Note ON	Yes (9nH, V=1-127)	Yes (9nH, V=1-127)	
	Note OFF	No (9nH, V=0)	Yes (9nH, V=0; 8nH, V=0-127)	
After Touch	Keys	Yes	Yes	
	Channels	Yes	Yes	
Pitch Bend		Yes	No	
Control Change	0	No	No	Bank Select
	1	Yes	No	Modulation
	5	Yes	No	Portamento Time
	6	No	No	Data Entry
	7	No	No	Volume
	10	Yes	No	Pan
	11	Yes	No	Expression
	64	No	No	Sustain Pedal
	65	Yes	No	Portamento ON/OFF
	66	No	No	Sostenuto Pedal
	67	No	No	Soft Pedal
	80	Yes	Yes	Reverb Program
	81	Yes	Yes	Chorus Program
	91	No	No	Reverb Level
	93	No	No	Chorus Level
	120	Yes	No	All Sounds Off
	121	Yes	Yes	Reset all Controllers
	123	No	No	All Notes OFF

Function		Sent	Received	Notes
Program Change	True	No *****	No 0 – 127	
System Exclusive		No	Yes	
System Common	Song Position	Yes	Yes	
	Song Select	Yes	Yes	
	Tune	Yes	Yes	
System Real Time	Clock	No	Yes	
	Commands	Yes	Yes	
Aux Messages	LOCAL ON/OFF	Yes	Yes	
	Active sense	No	No	
	Reset	Yes	No	

MIDI channel modes

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

13 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 headphone output 1 or 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.
Some notes on the keyboard sound wrong.	Reset the tuning to the default setting and restart the instrument.
The auto accompaniment does not start even though it is in standby mode.	Reset the digital piano to factory defaults.
The digital piano is not detected when connected to a computer.	Check the USB cable for correct connection. Connect the USB cable to another USB port on the computer.
The pedals do not work.	Check if the pedal cable is connected properly.
The USB flash drive (USB stick) does not work.	The digital piano only supports unpartitioned USB flash drives (USB stick) in FAT32 format. Please format the USB flash drive (USB stick) before use.

14 Technical specifications

Input connections	MIDI IN	1 × DIN socket, 5-pin
	Microphone	1 × 1/4" jack socket (unbalanced)
	AUX IN	2 × 1/4" jack socket (unbalanced)
	Power supply	1 × IEC chassis plug
Output connections	Headphones	1 × 1/4" jack socket, 1 × 3.5 mini jack socket
	MIDI OUT	1 × DIN socket, 5-pin
	MIDI THRU	1 × DIN socket, 5-pin
	USB MIDI	1 × USB-to-Host interface
	USB AUDIO	1 × USB type A
	AUX OUT	2 × 1/4" jack socket (unbalanced)
Keyboard		88 weighted keys with hammer action
Polyphony		256-voice polyphonic
Sounds		1200
Styles		270
Effects		DSP, Chorus, Reverb
Pedal		Soft, Sostenuto, Sustain
Demo and practice songs		3 demo songs, 90 practice songs
Bluetooth®	Frequency range	2.402 GHz...2.480 GHz
	Max. transmission power	+12 dBm
	Standard	Version 4.0
	Bluetooth® name	PIANO-AUDIO
Operating system		Windows® 8 and later, Mac OS X® 10.8 and later
Speaker		2 × 40 W+ 2 × 20 W
Supply voltage		230 V ~ 50 Hz
Fuse		5 mm × 20 mm, 3.15 A, 250 V, fast-acting
Dimensions (W × H × D)		1476 mm × 932 mm × 947 mm
Weight		101 kg
Colour		Polished black (item no. 497298), polished white (item no. 497307)
Ambient conditions	Temperature range	0 °C...40 °C
	Relative humidity	20 %...80 % (non-condensing)

Further information

Surface	Polished
Wooden keyboard	No
Ivory-feel keyboard	No
Auto Accompaniment	yes
Storage medium	USB to Device

15 Plug and connection assignment

Introduction

This chapter will help you select the right cables and plugs to connect your valuable equipment in such a way that a perfect sound experience is ensured.

Please note these advices, because especially in 'Sound & Light' caution is indicated: Even if a plug fits into the socket, an incorrect connection may result in a destroyed power amp, a short circuit or 'just' in poor transmission quality!

Unbalanced transmission

Unbalanced transmission is mainly used in semi-professional environment and in hifi use. Instrument cables with two conductors (one core plus shielding) are typical representatives of the unbalanced transmission. One conductor is ground and shielding while the signal is transmitted through the core.

Unbalanced transmission is susceptible to electromagnetic interference, especially at low levels, such as microphone signals and when using long cables.

1/4" TS phone plug (mono, unbalanced)



1	Signal
2	Ground, shielding

1/4" TRS phone plug (stereo, unbalanced)



1	Signal (left)
2	Signal (right)
3	Ground

Three-pole 1/8" mini phone jack (stereo, unbalanced)



1	Signal (left)
2	Signal (right)
3	Ground, shielding

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.

