

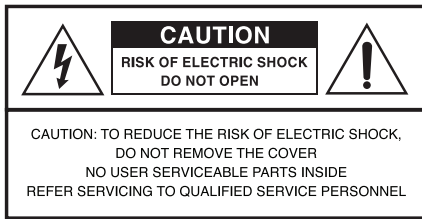
KURZWEIL®

M115

USER'S
MANUAL

English Manual

HDC YOUNG CHANG



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



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

IMPORTANT SAFETY & INSTALLATION INSTRUCTIONS

INSTRUCTIONS PERTAINING TO THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

WARNING : When using electric products, basic precautions should always be followed, including the following:

1. Read all of the Safety and Installation Instructions and Explanation of Graphic Symbols before using the product.
2. Do not use this product near water—for example, near a bathtub, washbowl, kitchen sink, in a wet basement, or near a swimming pool, or the like.
3. This product should only be used with a stand or cart that is recommended by the manufacturer.
4. This product, either alone or in combination with an amplifier and speakers or headphones, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.
5. The product should be located so that its location or position does not interfere with its proper ventilation.
6. This product should be located away from heat sources such as radiators, heat registers, or other products that produce heat.
7. This product should be connected to a power supply only of the type described in the operating instructions or as marked on the product.
8. This product may be equipped with a polarized line plug (one blade wider than be other). This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician to replace your obsolete outlet. Do not defeat the safety purpose of the plug.
9. The power supply cord of the product should be unplugged from the outlet when left unused for a long period of time. When unplugging the power supply cord, do not pull on the cord, but grasp it by the plug.
10. Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
11. The product should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged;
 - B. Objects have fallen, or liquid has been spilled into the product;
 - C. The product has been exposed to rain;
 - D. The product does not appear to be operating normally or exhibits a marked change in performance;
 - E. The product has been dropped, or the enclosure damaged.
12. Do not attempt to service the product beyond that described in the user maintenance instructions. All other servicing should be referred to qualified service personnel.
13. **WARNING :** Do not place objects on the product's power supply cord, or place the product in a position where anyone could trip over, walk on, or roll anything over cords of any type. Do not allow the product to rest on or be installed over cords of any type. Improper installations of this type create the possibility of a fire hazard and/or personal injury.

RADIO AND TELEVISION INTERFERENCE

WARNING : Changes or modifications to this instrument not expressly approved by KURZWEIL could void your authority to operate the instrument.

IMPORTANT : When connecting this product to accessories and/or other equipment use only high quality shielded cables.

NOTE : This instrument has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This instrument generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this instrument does cause harmful interference to radio or television reception, which can be determined by turning the instrument off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

The normal function of product may be disturbed by strong electro magnetic

interference. If so, simply reset the product to resume normal operation by following the instruction manual.

In case the function could not resume, please use the product in other location.

- Reorient or relocate the receiving antenna.
- Increase the separation between the instrument and the receiver.
- Connect the instrument into an outlet on a circuit other than the one to which the receiver is connected.
- If necessary consult your dealer or an experienced radio/television technician for additional suggestions.

NOTICE : This apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

AVIS : Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la class B prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

SAVE THESE INSTRUCTIONS

Power Supply & Precautions

Make sure your digital piano is rated for the AC voltage supplied in the area in which the piano will be used. The voltage rating appears on the name plate on the adaptor.

To ensure proper and safe operation of the instrument, please read the manual carefully and keep it for future reference.

WARNING



- 1) To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
- 2) Please connect the designated DC adaptor to an AC outlet of the correct voltage.
- 3) This product should only be used with a standard voltage, if not, please use an appropriate adaptor that is recommended by the manufacturer.
- 4) When opening and closing the key cover, be careful not to pinch hands or fingers.

CAUTION



- 1) Discharge static electricity by touching a metal surface before touching the instrument.
- 2) Protect the keyboard and switches when moving the instrument.
- 3) Ensure the volume is set to the minimum level before turning on the instrument.
- 4) Do not open the inside of the instrument. This instrument contains precision parts which should not be touched.
- 5) Turn off the power after use.
- 6) Unplug the instrument when unused for long periods of time.
- 7) Do not apply excess force to the buttons and switches.

Kurzweil International Contacts

Contact the appropriate Kurzweil office listed below to locate your local Kurzweil representative.

US Customers:

American Music & Sound
925 Broadbeck Dr #220
Newbury Park, CA 91320
Tel: 800-431-2609
Fax: 818-597-0411
Email: info@americanmusicandsound.com

Customers outside the US:

HDC Young Chang Co., LTD.
Tel: +82 32 570 1000

www.hdc-youngchang.com



www.kurzweil.com



<https://kurzweil.com/support/>



<https://www.facebook.com/kurzweilhome/>



<https://www.twitter.com/kurzweilmusic>



<https://www.youtube.com/user/kurzweiltutorials>



<https://www.instagram.com/kurzweilmusic/>

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Chapter 1 Introduction

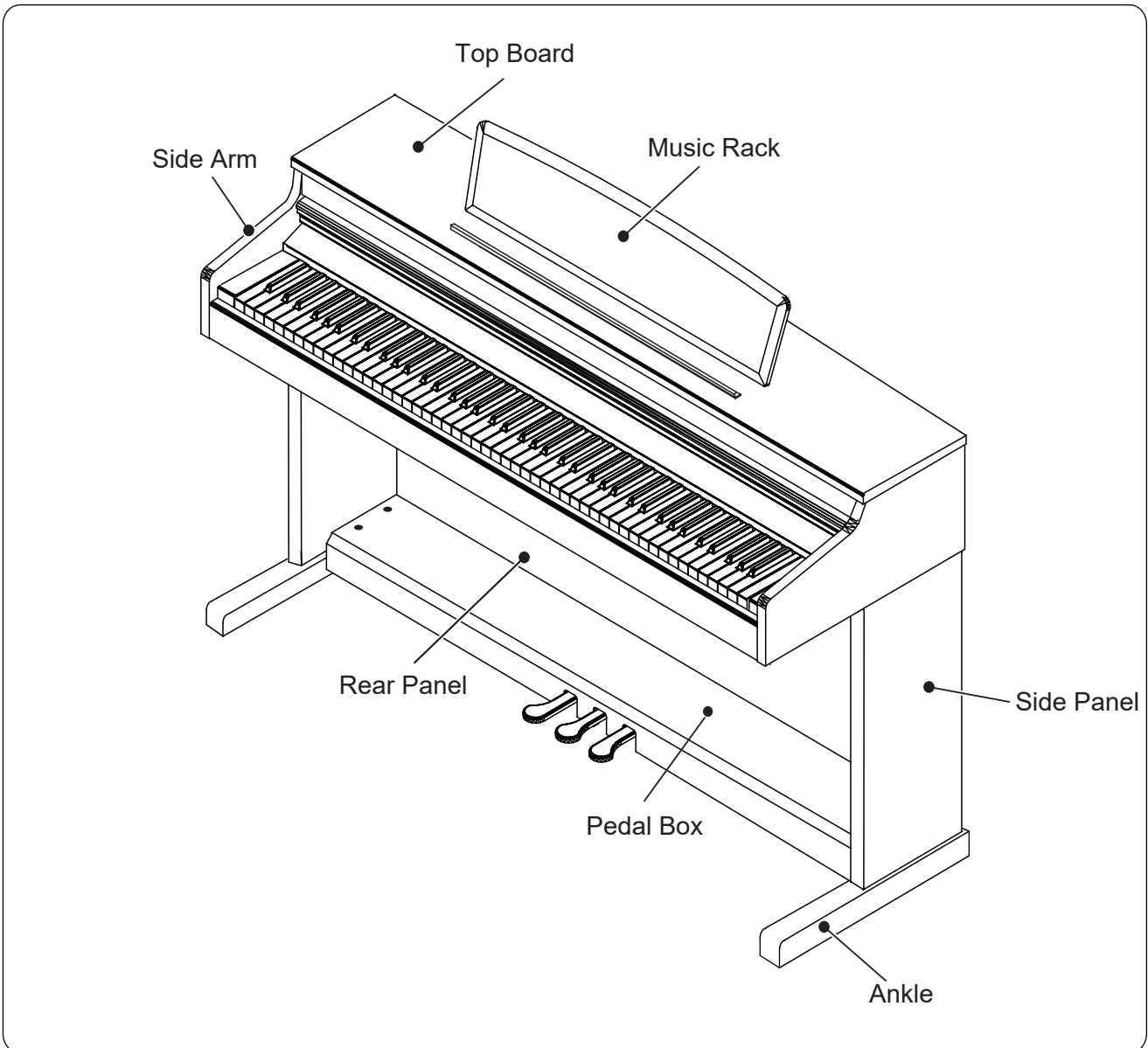
Thanks for purchasing the KURZWEIL Digital Piano.
Please enjoy exploring the variety of features as well as the beautiful preset sounds.

1. Primary Features

- 88-Note, Fully-Weighted Hammer-Action Keyboard
- 30 Preset Voices + GM 128 Voices, Drum set
- 30 Rhythm Patterns and Metronome
- 3 X 7 LED Display
- Duo Playing (Dual) Mode
- Layer, Split, Transpose Function
- 189 Notes Polyphony
- Piano Voice Shortcut Button
- Recording Function (Up to 4000 Notes)
- USB MIDI & Audio
- 50 Demo Songs
- Built-in Learning Songs (Beyer, Czerny, Sonatine, Hanon, Burgmuller)
- 3 Pedals : Soft, Sostenuto, Sustain
- 10 Different Types of Velocity Sensitivity
- Stereo Audio Input and Output
- 2 Headphone Jacks
- Smart I/O Jack (4 Pole Jack)

1. Setting up the M115

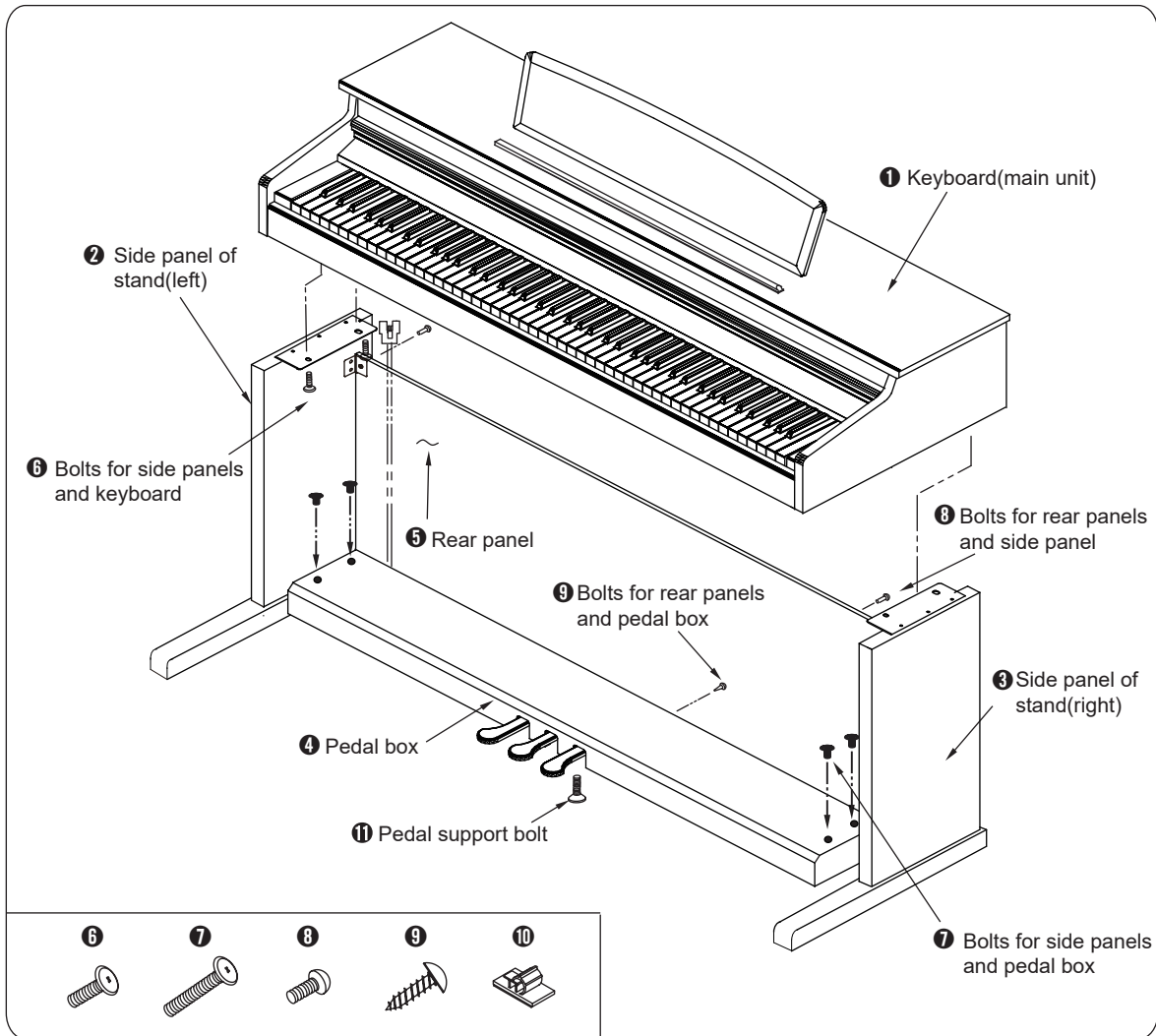
Name of Mechanical Parts _____



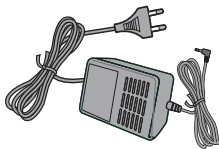
Chapter 2 Assembly

Carton Contents

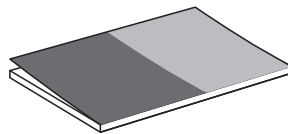
| | | | |
|-------------------------------|---|--|---|
| ❶ Keyboard (main unit) | 1 | ❻ Bolts for side panels and keyboard | 4 |
| ❷ Side panel of stand (left) | 1 | ❼ Bolts for side panels and pedal box | 4 |
| ❸ Side panel of stand (right) | 1 | ❽ Bolts for rear panels and side panel | 2 |
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Accessories



DC Power Adapter
(DC15V, 2.5A) with Power Cord



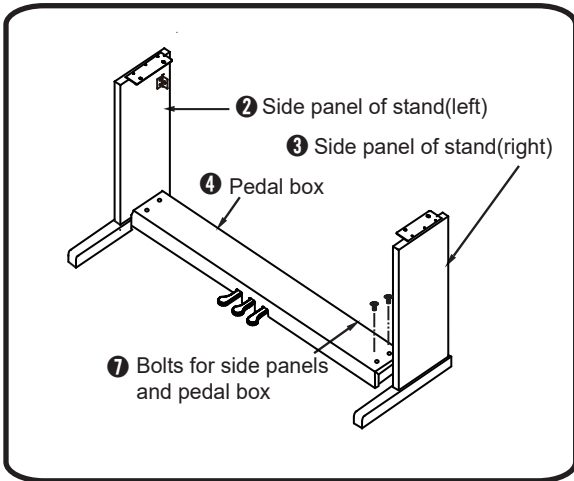
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Smart I/O Cable

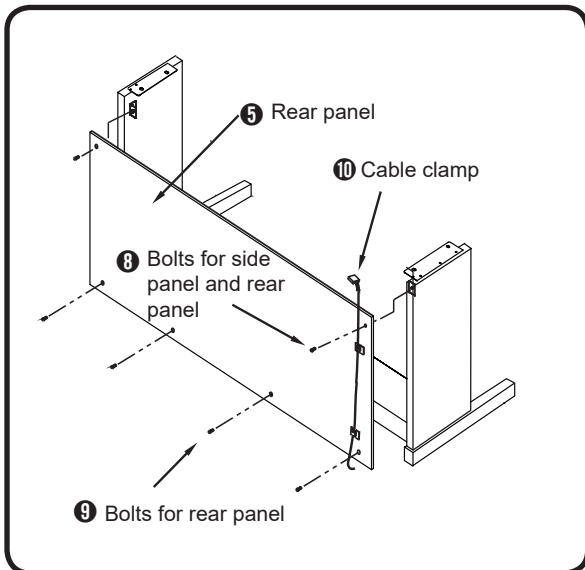
If you are missing any of the above, Please contact your Kurzweil dealer

Side Panels and Pedal Box Assembly



- ① There is a pedal cable in the pedal box ④. Untie and straighten out the bundled pedal cable.
- ② Place the pedal box ④ on the bracket of the left side panel ② then tighten with Bolts ⑦.
- ③ Assemble the right side panel ③ in the same way.

Rear Panel Assembly



- ① Align the rear panel ⑤ with the holes in the L shaped bracket and tighten with Bolts ⑧.
- ② The lower part of the rear panel ⑤ is attached to the pedal box ④ with 4 Bolts ⑨.
- ③ After the rear panel is in place, attach the pedal cable with the cable clamps ⑩.

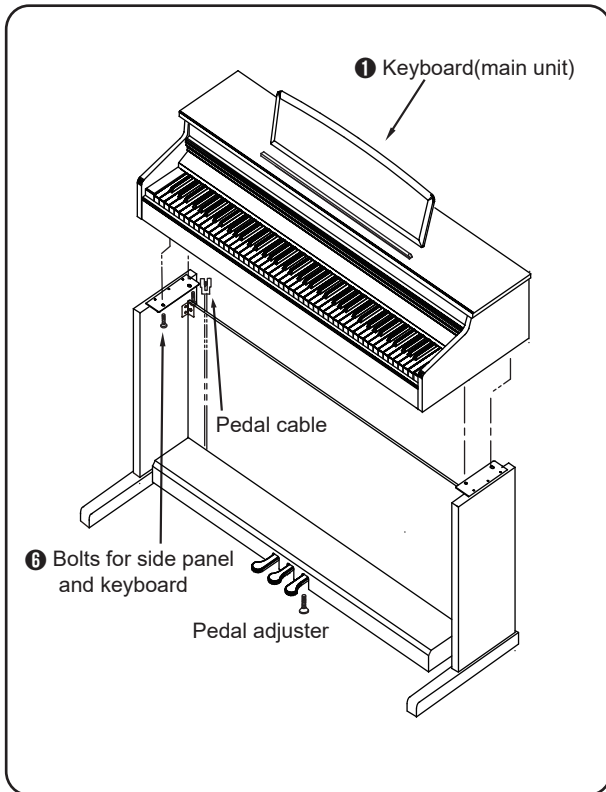
Chapter 2 Assembly

Assembly Instruction

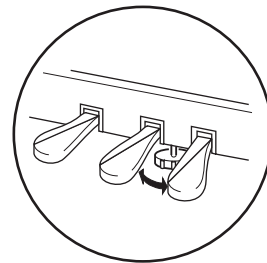


To prevent the main unit from accidentally falling forward when placing it on the stand, do not press down on the front edge of the keyboard or pull down on the main unit before tightening the screws.

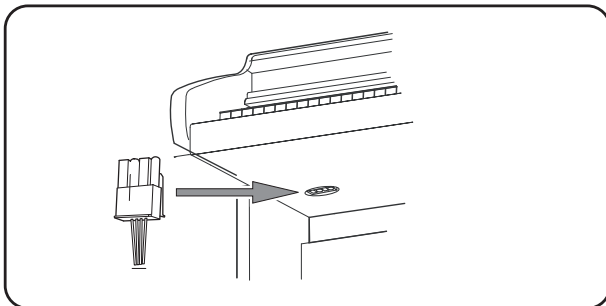
Mount and Attach the Keyboard (Main Unit)



- ① Place the keyboard (Main Unit) on the stand then fit it into the holes in the side panel brackets.
- ② Use four Bolts ❹ to fasten the keyboard(Main Unit) to the stand.
- ③ Connect the pedal cable to the keyboard(Main Unit).
- ④ The pedal adjuster bolt under the pedal box must be adjusted until it touches the floor. If the pedal adjuster bolt is not in contact with the floor, pressing the pedals may damage the pedal box.



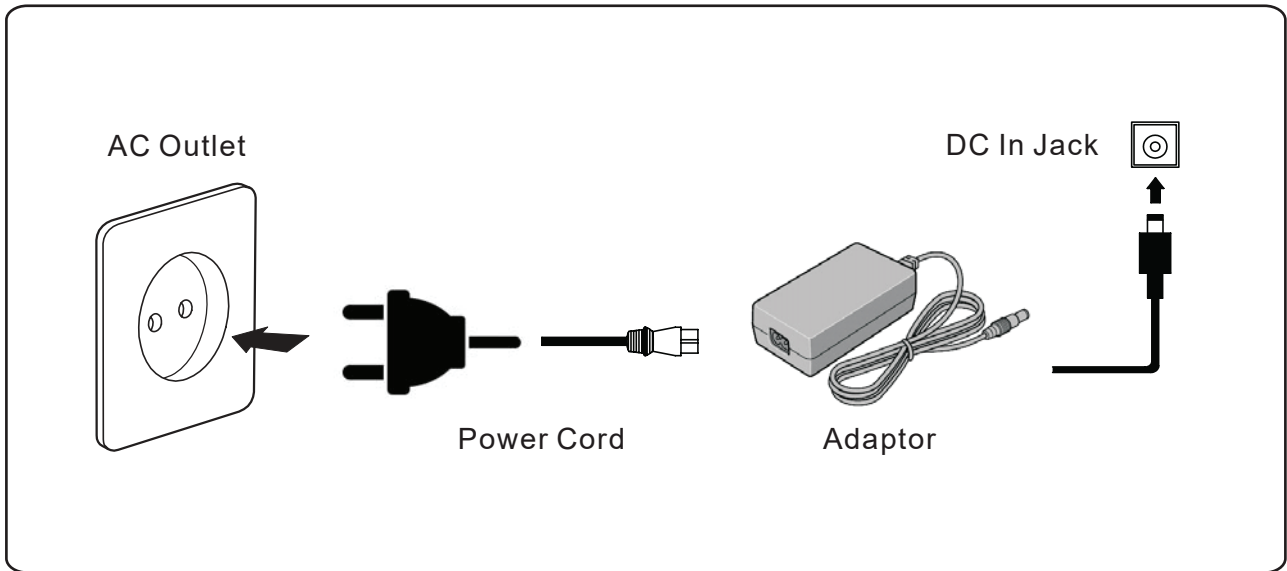
Connect the Pedal Cable



- After assembly is complete, connect the pedal cable to the pedal connector on the bottom of the keyboard (Main Unit).
- Align the pins correctly and push it up until it clicks. If the pins are not oriented correctly, the pedals will not work.
- Organize the wiring using a cable clamp.

After moving the piano to the installation place, the pedal adjuster under the pedal box must be adjusted until it touches the floor.

2. Power Connection

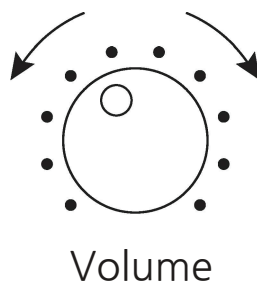


The M115 uses a free voltage (110V-240V) DC Power Adapter (15V 2.5A). Before inserting the AC power cord attached to the adapter into an outlet, make sure that the power switch located on the right panel is turned off.

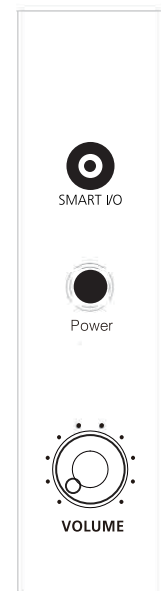
Connecting the power cord with the power switch on may cause damage to the product due to an instantaneous overvoltage. About 2~3 seconds after turning on the power switch, the LED information is displayed and the [Piano] button lights up. The piano is now ready for use.

CAUTION : Please use the supplied DC power adapter (15V, 2.5A). Using the wrong DC power adapter may cause damage to the product. If the adapter is damaged or lost, please contact your HDC Young Chang/Kurzweil dealer.

3. Volume

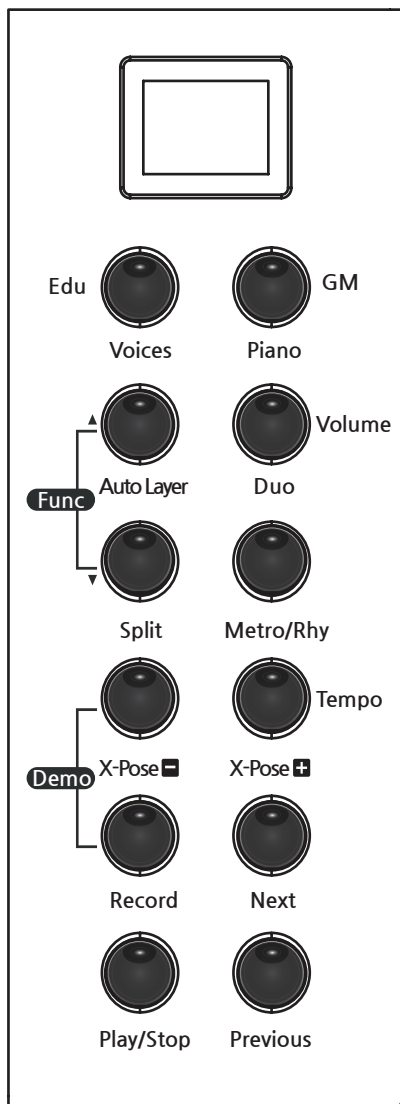
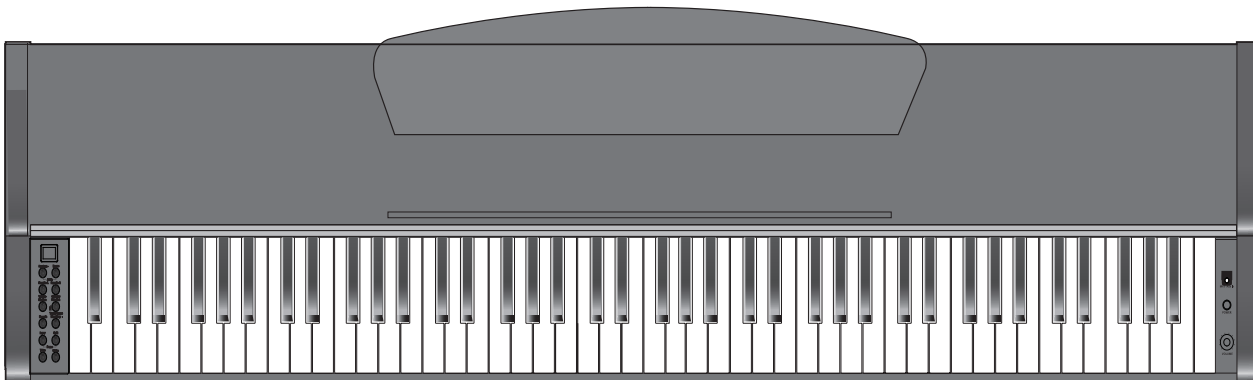


Before turning on the M115, please set the volume to its minimum setting. For a generally comfortable level of volume while playing, set the knob to its middle position. The main volume control knob is located beneath the power button on the right front panel. Turning it counterclockwise decreases the volume. Turning it clockwise increases the volume.



Chapter 3 Left Panel

1. Main Buttons



(1) Piano button

Pressing the Piano button immediately selects the primary piano sound.

(2) Voices button

Choose from 30 voices to perform with. After pressing the [Voices] button, use the [Next] or [Previous] button to scroll through the voice selections one by one.

(3) Layer button

Combine two voices across the keyboard to create a richer sound.

(4) Duo button

Splits the keyboard in half and allows two people to play the same range of notes at the same time as a duet.

(5) Split button

Split mode divides the keyboard into independent left and right parts where each part can be played with a different voice.

(6) Demo button

Select among the 50 demonstration songs.

(7) Metro/Rhy button

Start/Stop the metronome or select a beat (rhythm).

(8) Record button

Record your performance in real time.

(9) Play/Stop button

Start/Stop recording, playback or demo song.

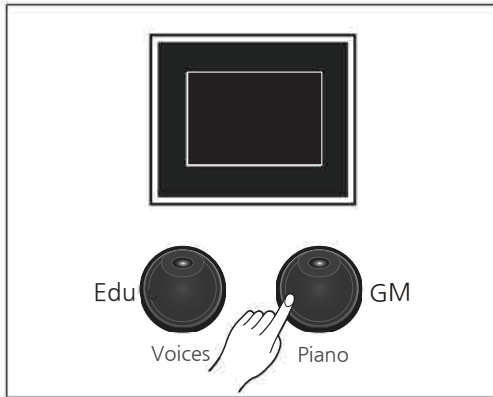
(10) Next button

Select the next voice/demo song one by one or increase the data value +1 in function mode.

(11) Previous button

Select the previous voice/demo song one by one or decrease the data value -1 in function mode.

1. Selecting Voices



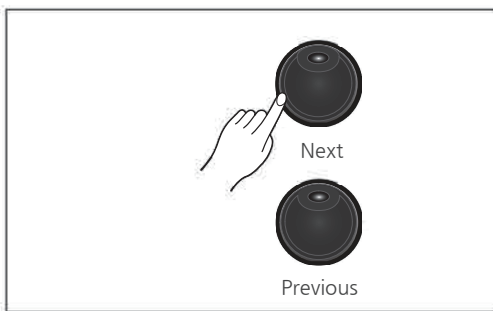
Use the [Voices] or [Piano] button to select a Voice.

- 1) Press the [Voices] button.
- 2) Then use the [Previous] and [Next] buttons to select a voice.

If you want to play the piano voice, press the [Piano] button.

The voice changes to “Concert Piano” regardless of the current voice selected.

The values of Layer, Split, Duo, Reverb, and Effect are initialized.



The selected voice name appears on the display.

(Information is displayed moving from right to left.)

2. List of Voices

| No | Voices | AutoLayerVoices | SplitsVoices | No | Voices | AutoLayerVoices |
|----|---------------|---------------------|------------------|----|--------------|--------------------|
| 1 | Concert Piano | 49 String Ensemble2 | 33 Acoustic bass | 16 | Violin | 60 French Horn |
| 2 | Grand Piano | 49 String Ensemble2 | | 17 | Cello | 60 French Horn |
| 3 | E.Piano 1 | 88 New age pad | | 18 | Pizzicato | 60 French Horn |
| 4 | E.Piano 3 | 88 New age pad | | 19 | String | 0 Grand piano |
| 5 | Harpicord | 88 New age pad | | 20 | synth string | 0 Grand piano |
| 6 | Vibraphone | 88 New age pad | | 21 | Choir Aahs | 0 Grand piano |
| 7 | Pop Organ | 60 French Horn | | 22 | Trumpet | 40 Violin |
| 8 | Church Organ | 60 French Horn | | 23 | Brass | 40 Violin |
| 9 | Reed Organ | 60 French Horn | | 24 | Auto sax | 40 Violin |
| 10 | A.Nylon | 0 Grand Piano | | 25 | Oboe | 49 String Ensemble |
| 11 | Steel Guitar | 0 Grand Piano | | 26 | Flute | 49 String Ensemble |
| 12 | Overdrive | 0 Grand Piano | | 27 | Ocarina | 49 String Ensemble |
| 13 | A bass | 116 Taiko Drum | | 28 | Fantasia | 9 Celesta |
| 14 | Finger bass | 116 Taiko Drum | | 29 | Crystal | 9 Celesta |
| 15 | Slap Bass | 116 Taiko Drum | | 30 | Drum set | |

3. Selecting GM Voices

If you hold down the [Piano] button for 2~3 seconds, GM mode is activated.

In GM mode, the display shows the current GM voice with the [Piano] button blinking.

You can select from 128 GM voices by using the [Next] and [Previous] buttons.

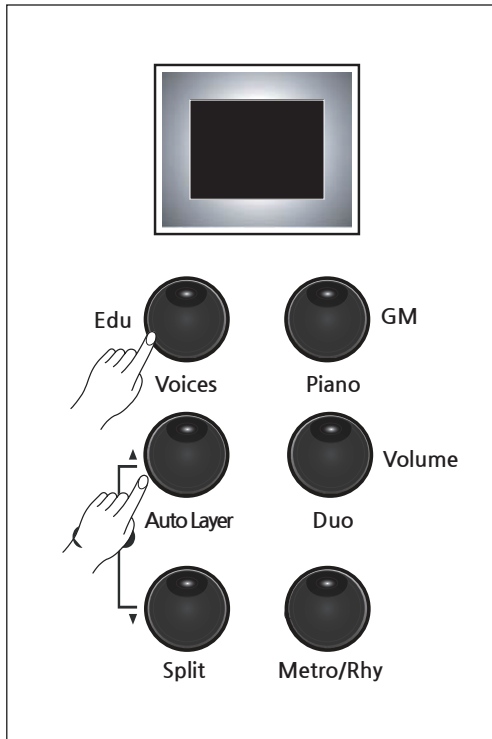
[Auto Layer], [Split], [Duo] mode is canceled in GM mode.

To view the complete GM voice list, please refer to page 30.

Chapter 5 Layer Mode

1. Using Layer Mode

Layer Mode allows you to combine two different voices across the keyboard.

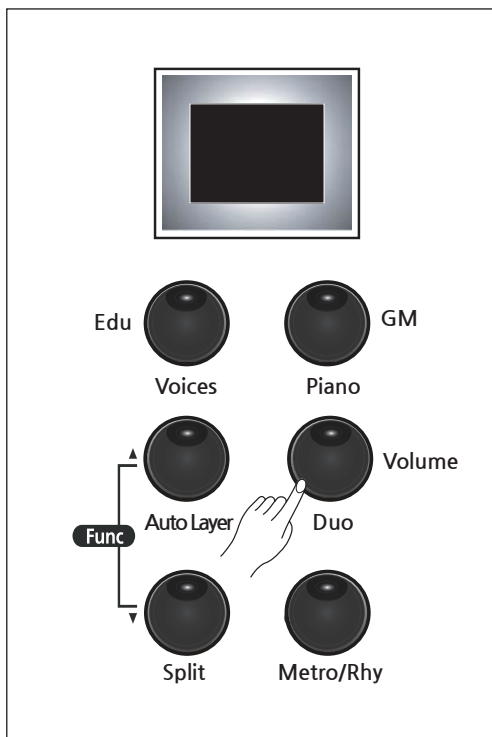


When the [Auto Layer] button is pressed, “LAR” is displayed, indicating you are in Layer Mode.

In Layer Mode, the assigned sub-voice is automatically selected. You can select from the 128 GM voices by pressing the [Next] and [Previous] buttons. Pressing the [Piano] button will exit Layer Mode.

Auto Layer

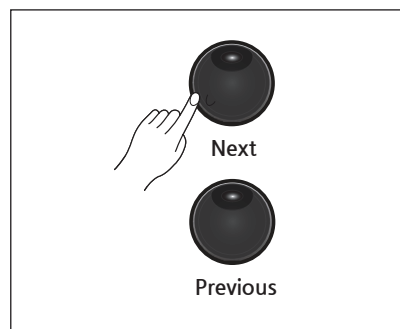
Auto Layer automatically selects a suitable layered voice. Please refer to the list of Auto Layer Voices (page 15).



Setting the Layer Volume

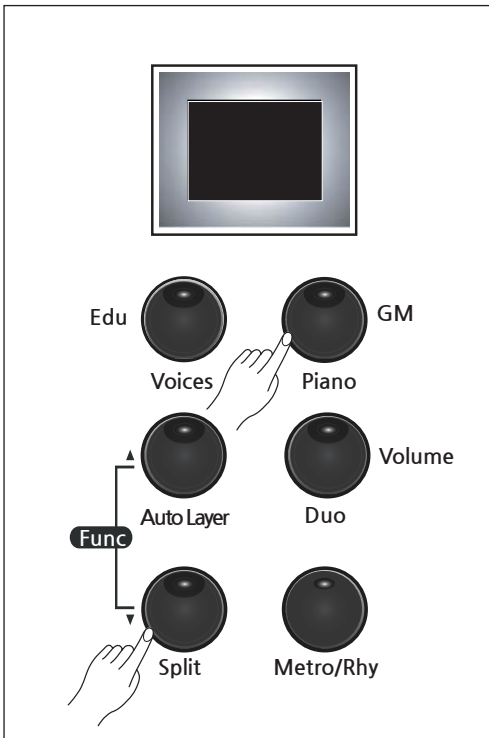
In Layer Mode, press the [Volume] button and then use the [Next] and [Previous] buttons to set the desired volume level.

Default Layer Volume: 80
Adjustable Volume Range: 20~120



1. Using Split Mode

Split Mode allows you to split the keyboard into two regions containing two different voices with an adjustable split point.



When the [Split] button is pressed, “SPL” is displayed, indicating you are in Split Mode.

The left-hand bass region is automatically set to the “a.bass(33)” voice. Use the [Piano] or [Voices] button to select the desired right-hand voice. Use the [Next] and [Previous] buttons to select the desired left-hand voice, choosing from the 128 GM voices list.

Pressing the [Piano] button will exit Split Mode.

Setting the Split Volume:

In Split Mode, press the [Volume] button and then use the [Next] and [Previous] buttons to set the desired volume level. Once the desired volume has been set, do not press any button for 2-3 seconds to automatically exit the volume menu.

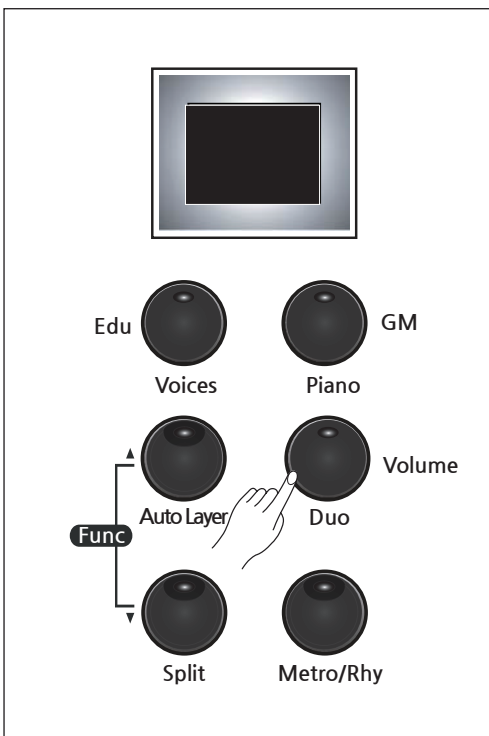
Default Split Volume: 100

Adjustable Volume Range: 20 ~ 120

The split voice is transposed up 1 octave by default.

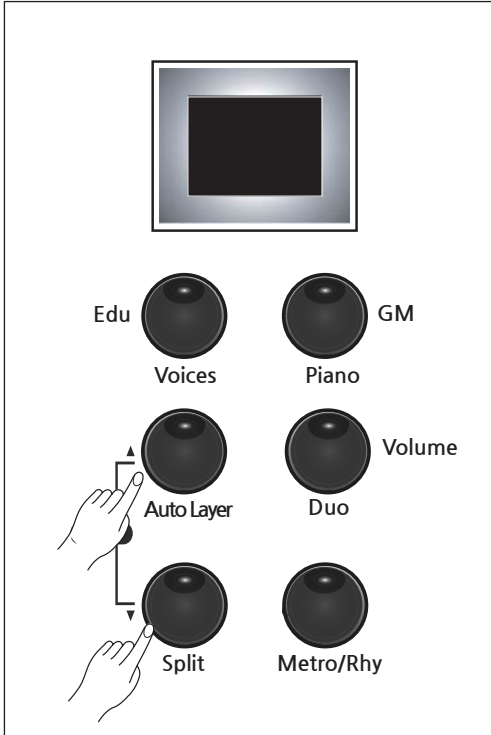
Change the Split Point

Press and hold the the [Split] button. With the [Split] button depressed, press the desired piano key to designate that key as the new split point. The new piano key number will be displayed and takes effect immediately.



Chapter 7 Function Mode

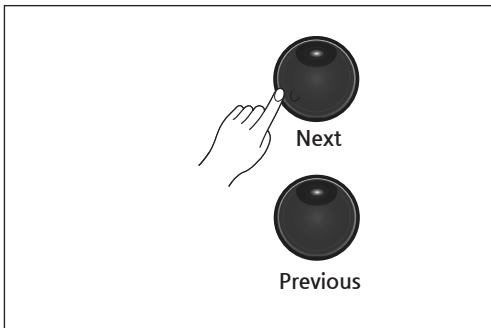
1. Using Function Mode



To access Function Mode, press the [Auto Layer] and [Split] buttons at the same time.

“F01” will be shown on the display and both LEDs will blink.

Use the [Auto Layer] and [Split] buttons to select the function to be adjusted.



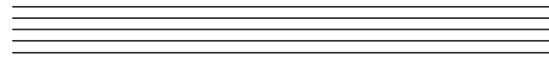
Use the [Next] and [Previous] buttons to adjust the value of the chosen function.

- Function mode settings are only maintained while the power is on. When the instrument is turned off, all Function mode settings revert to their factory default.

2. Function List

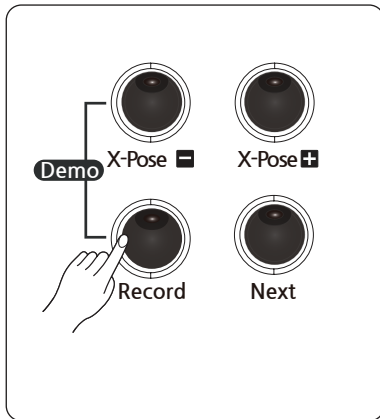
| NO. | FUNCTION | Range | Default | Description |
|-----|-----------------------------------|-----------------------------|---------|--|
| 1 | Brilliance | -64 ~ 63 | 0 | Values less than 0 are progressively darker in tone. Values greater than 0 are progressively brighter in tone. |
| 2 | Touch Sensitivity | OFF, 1 ~ 9 | 5 | You can adjust how the keyboard responds to your playing. 1.(Soft), 5(Normal), 9(Hard) |
| 3 | Keyboard Touch Off Fixed velocity | 20 ~ 127 | 80 | Adjusts the velocity value that is fixed when the keyboard touch is OFF. |
| 4 | Rhythm Volume | 20 ~ 100 | 65 | Adjusts the volume of the rhythm. |
| 5 | Accompaniment ON/OFF | ON,OFF | ON | Turns the accompaniment on/off. When set to OFF, only the drum pattern is heard when accompaniment is played. |
| 6 | Metronome Beat | 0,2,3,4,5,6,7, 8,9,10,11,12 | 0 | Sets the beat of the quarter note. (4 = 4/4, 10 = 10/4) |
| 7 | Metronome Volume | 20 ~ 100 | 80 | Adjusts the metronome volume. |
| 8 | Reverb Type | 0 ~ 5 | 3 | 0 = OFF, 1 = room, 2 = hall, 3 = stage, 4 = plate, 5 = delay |
| 9 | Reverb Volume | 0 ~ 100 | 40 | Adjust the volume of the reverb. |
| 10 | Effect Type | 0 ~ 3 | 0 | 0 = OFF, 1 = chorus1, 2 = chorus, 3 = short flanger Caution: If you change this setting while playing, a "tick" noise may occur. |
| 11 | Effect Volume | 0 ~ 100 | 70 | Adjust the volume of the effect. |
| 12 | Demo Song Mode | OFF, ON REPEAT, ALL REPEAT | ALL | Sets the demo play mode. Off = Only one selected song is played. Rep = Plays one selected song repeatedly. All = Play all songs in the selected group. |
| 13 | Tune | -50 ~ 50 | 0 | Adjusts the pitch of the piano. The range is +/-50cent. |
| 14 | Local Control | ON,OFF | ON | Turns the internal sound source ON and OFF. This is useful when connecting with an external MIDI sequencer/DAW. |
| 15 | Auto Power | ON,OFF | ON | If you do not play for 4 hours, the power is automatically turned off. |
| 16 | USB Audio Activation | ON,OFF | OFF | By connecting to a PC or mobile phone, you can use the piano as an audio device and record the songs you play. Note : To engage the USB Audio function, it is necessary to reboot the M115. As such when setting USB Audio activation parameter to ON the M115 will automatically power itself off. Once it does, simply turn the power on again to continue use, now with USB Audio enabled. |
| 17 | Firmware Version | U10 | | Displays the current firmware version. |

Chapter 8 Recording/Duo Mode



With the easy-to-use song recording features, you can record your own keyboard performances. By recording your performance and experimenting with various voices, you can improve your playing, composing and arranging skills. Furthermore, you can enjoy playing along with a previously recorded song.

1. Recording



- 1) Press the [Record] button. The [Record] button LED will blink.
- 2) When you start playing (press any piano key), the [Play/Stop] button LED will light up and recording begins.
- 3) Press the [Play/Stop] button again to stop recording.
- 4) Press the [Play/Stop] button again to start playback.

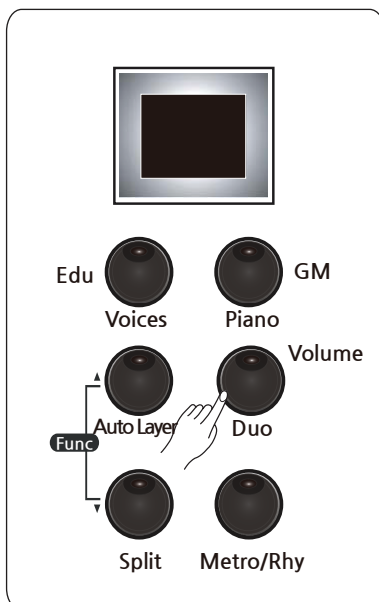
2. Erasing a User Song

There are two methods to erase the user song:

- 1) Hold the [Record] button for 2~3 seconds. A “ding” sound will be heard. “DEL” will be shown on the display and the recorded song will be erased.
- 2) When you restart recording, any previously recorded song will automatically be erased and the newly played song will be saved in its place.

Note: Song memory is not deleted when the power is turned off.

3. Playing in Duo Mode

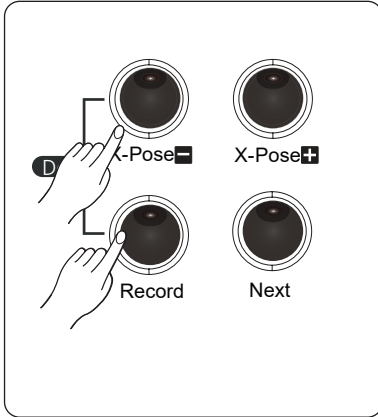


This function allows two people to play piano in split duet fashion over the same range of keys. This is a very useful educational feature allowing a teacher/parent and a child to play together.

The voice is set to “Piano” and the range is equally divided on both sides of the “E4” key.

In Duo Mode, the soft pedal works as the sustain pedal for the lower key range.

1. Listening to Demo Songs



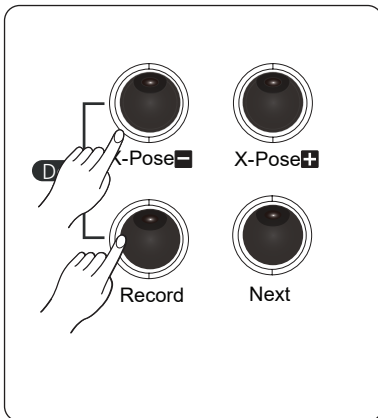
- 1) Press the [X-pose-] and [Record] buttons together at the same time, "Deo" is displayed.
- 2) The [X-Pose-] and [Record] buttons blink.
- 3) Select a song with the [Previous] and [Next] buttons. (See list on page 28)
- 4) Press the [Play/Stop] button to start the demo song.
- 5) Press the [Play/Stop] button again to stop the demo song.

Demo song playback behavior (Off, Repeat, All) is controlled by the "Demo Song Mode" setting in Function Mode.

Demo song repeat type

1. Off : When the song is over, it automatically stops.
2. rpt : The selected song is played repeatedly.
3. All : All songs are repeated starting from the chosen demo song.

2. Education Mode



- 1) Press [X-pose-] and [Record] buttons together at the same time.
- 2) Use the [X-pose-] and [Record] buttons, pressed individually, to select a group of educational songs to demo and practice.
- 3) Select Sonatine, Beyer, Czerny(C100,C30,C40), Hanon, Burgmuller.

Change tempo in Edu Mode

When you press the [Tempo] button, "120" is displayed and you can change this value with the [Next] and [Previous] buttons.

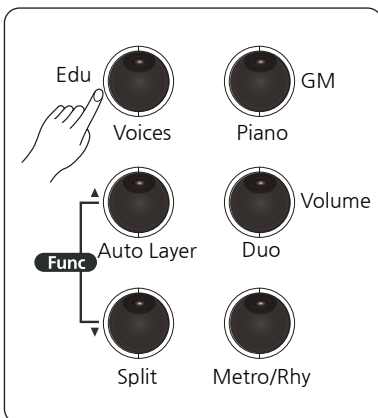
Left hand/right hand practice

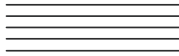
Press the [Edu] button for 2~3 seconds. The currently selected mode is displayed. Press the [Edu] button again to cycle through the three available options: "ALL -> rt -> lt".

ALL: Plays the left and right hands simultaneously.

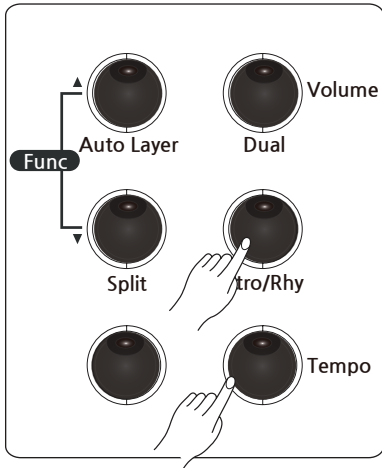
rt: Play only the right hand.

lt: Play only the left hand.





1. Metronome & Rhythm



■ Using the metronome

When you press the [Metro/Rhy] button, the tempo of the currently selected song is displayed, the LED blinks and the metronome starts. Press the [Metro/Rhy] button again to stop the metronome.

■ Adjusting the beat and volume

Please refer to Function Mode No. 6 and 7 (page 19).

■ Start/Stop Rhythm

Hold the [Metro/Rhy] button for 2~3 seconds, “r-1” is displayed and the LED blinks. Select from the 30 available rhythms by using the [Next] and [Previous] buttons. Rhythm playback starts when you press a chord in the bass end of the keyboard. You can start or stop playback using the [Play/Stop] button.

■ Change tempo of the rhythm

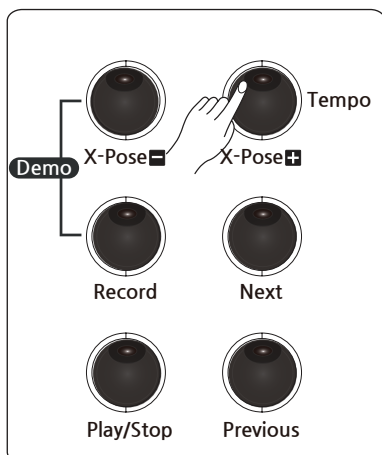
When you start the rhythm, the tempo is displayed as “120”. You can change the tempo by using the [Next] and [Previous] buttons. When the rhythm is changed, the tempo is also reset to 120.

List of Rhythms

| NO | Rhythm | NO | Rhythm | NO | Rhythm |
|----|--------------|----|-------------|----|----------|
| 1 | 80's POP | 11 | Disco POP | 21 | Disco |
| 2 | Swing | 12 | Salsa Dance | 22 | Jazz |
| 3 | Swing | 13 | Soul Beat | 23 | Cha Cha |
| 4 | Big band | 14 | Techno Rock | 24 | March |
| 5 | Bossa nova | 15 | 8Beat Rock | 25 | Tango |
| 6 | Country Rock | 16 | 16Beat | 26 | Country |
| 7 | Funky | 17 | Home Beat | 27 | Gospel |
| 8 | Hip Hop | 18 | Rhythm Beat | 28 | Fox Trot |
| 9 | Funky POP | 19 | Sweet Beat | 29 | Trot |
| 10 | Latin Dance | 20 | POP | 30 | Waltz |

2. Transpose

Transpose is a function that lets you ‘play’ in a different key or octave than physically played. This can be useful, for example, in changing song keys to better accompany a singer’s range or if you are playing music written for a transposed instrument. The transposition can be raised or lowered in semitone increments.



You can use the [X-Pose +] or [X-Pose -] button to set the transpose in semitones (100 cents). When transposing upward, the [X-Pose +] button LED lights. When transposing downward, the [X-Pose -] button LED lights.

Transpose range: -12 ~ +12

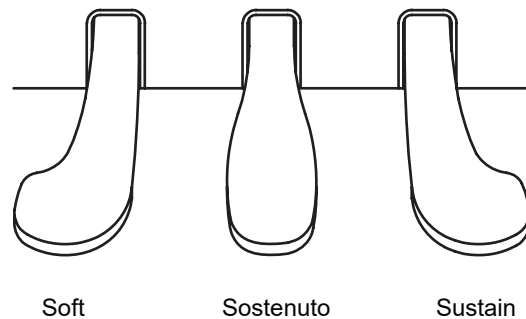
Default: 0

Caution: The lower or upper keys may not sound when transposed to extremes.

1. Pedal Features

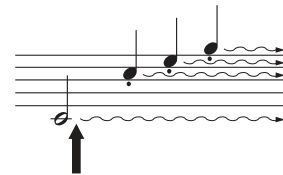
The pedals on the M115 have the same function as those of a grand piano. Therefore, the silent pedal (middle pedal) function of an upright piano is not supported. Please use the volume control in lieu of a silent pedal function.

2. Pedal Type



(1) Sustain Pedal

Also called the damper pedal on an acoustic piano, pressing this pedal causes all notes to sustain, or gradually ring out, even when you lift your fingers from the keys.



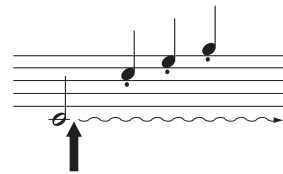
Press the pedal from this point.

(2) Soft Pedal

Notes played while this pedal is down, sound softer than those played when the pedal is up.

(3) Sostenuto Pedal

Keys that are already held down at the time this pedal is pressed will sustain, however, any keys played after the pedal is down will not sustain.



Press the pedal from this point

NOTE If the pedals don't work, make sure that the pedal cord is properly plugged into the main unit (see page 12).

MIDI is the acronym for Musical Instrument Digital Interface. Which is an industry standard protocol for electronic musical instruments to communicate with each other.

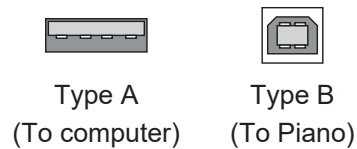
1. MIDI Channel

MIDI protocol transmits multiple channels of MIDI performance data. Each channel can be assigned its own voice. Typical MIDI instruments can play up to 16 channels at the same time. Which is equivalent to 16 soloists.

2. MIDI Connection

The instrument can be connected to the computer via a USB cable.

Use A to B type USB cable to connect to a computer. (The type B connector connects to the piano as shown in the figure below.) When a computer is connected, it works as a MIDI controller.



3. Local Control

Local Control allows you to control whether the keyboard of main unit will trigger the internal sound engine.

Usually Local Control should be set to On. When using the instrument to record to an external sequencer or computer, turn this setting to Off to avoid creating a MIDI loop which may result in stuck notes or “echoes”.

When the instrument is connected with an external sequencer, please check this function.

MIDI Implementation Chart

Manufacturer:

HDC YOUNG CHANG Co. LTD.

Date : 2021.2.15

Version 1.0

| Function | | Transmitted | Recognized | Remarks |
|------------------|---------------|---------------|---------------|---|
| Basic Channel | Dufault | 1 | 1 | Memorized |
| | Changed | 1 - 16 | 1 - 16 | |
| Mode | Dufault | Mode 3 | Mode 3 | Use Multi mode for multi-timbral applications |
| | Messages | | | |
| | Altered | | | |
| Note Number | | | 0 - 127 | |
| | True Voice | 0 - 127 | 0 - 127 | |
| Velocity | Note ON | O | O | |
| | Note OFF | X | X | |
| After Touch | Keys | X | X | |
| | Channels | X | O | |
| Pitch Bender | | X | O | |
| Control Change | | 0 - 31 | 0 - 31 | |
| | | 32 - 63 (LSB) | 32 - 63 (LSB) | |
| | | 64 - 127 | 64 - 127 | |
| Program Change | | 0 - 20 | 0 - 20 | |
| | True # | 0 - 127 | 0 - 127 | |
| System Exclusive | | O | O | |
| System Common | Song Pos. | O | O | |
| | Song Sel | O | O | |
| | Tune | X | X | |
| System Real Time | Clock | O | O | |
| | Messages | O | O | |
| Aux Messages | Local Control | O | O | |
| | All Notes Off | O | O | |
| | Active Sense | O | O | |
| | Reset | X | X | |
| Notes | | | | |

Chapter 13 Connection

1. Using Headphones

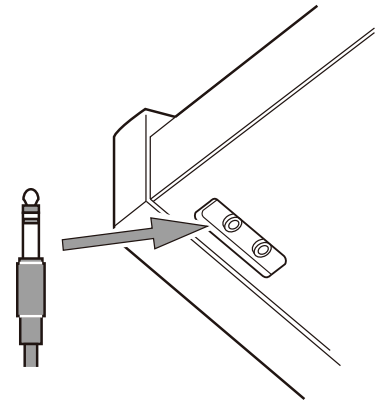
The M115 supports using two pairs of headphones with 1/4" plugs.

CAUTION

To avoid the risk of hearing loss when using headphones, please do not play the piano with a high volume level for extended periods of time.

2. Audio In

Connect the audio output of an MP3/CD player or other audio source to the AUDIO IN jack. You will be able to hear the music through the internal speakers of your keyboard. RCA cables are needed for the connection.



3. Audio Out

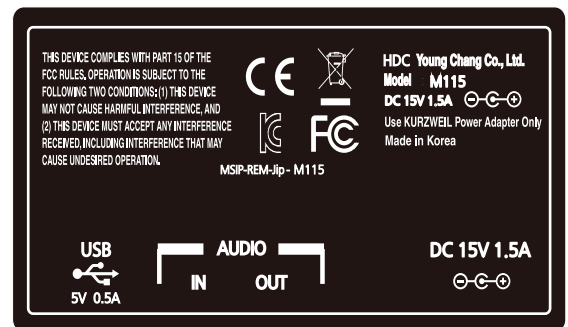
You can connect a stereo system to amplify the instrument's sound by using the Audio Out jack. When the instrument's sound is output to an external devices, first turn on the power to the instrument then to the external device. Reverse this order when you turn the power off. RCA cables are needed for the connection.

4. USB

The USB connection transmits and receives MIDI data between the instrument and a computer.

5. DC Power Jack

Connect the power adapter to the DC Jack.

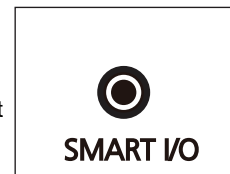
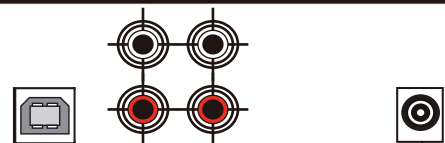


6. Smart Recording (I/O)

If you connect the supplied cable from the SMART I/O jack on the right panel of the piano to the earphone jack of a smartphone, you can record without external noise when recording a performance video with the video recording function of the smartphone.

When playing content on a smartphone, you can hear the sound through the internal speakers of the piano.

Depending on the smartphone manufacturer and particular device, the smart recording function may not be supported. The supported cable is a 4-pole terminal (American standard type). If you use a cable that uses a 3-pole terminal, only input from the smartphone to the piano will function.



NOTE When connecting cables, noise may be introduced and a roaring sound may occur instantaneously, so be sure to minimize the volume or turn off the power before connecting.

Since the recording volume may vary during smart recording, it is recommended to set the volume to the 12 o'clock position as shown on the right.



Chapter 14 Drum Sets

| | | |
|--|------|-----------------------|
| | A 0 | |
| | A# 0 | |
| | B 0 | |
| | C 1 | |
| | C# 1 | |
| | D 1 | |
| | D# 1 | High Q |
| | E 1 | Slap |
| | F 1 | Stratch Push |
| | F# 1 | Stratch Pull |
| | G 1 | Sticks |
| | G# 1 | Square Click |
| | A 1 | Metronome Click |
| | A# 1 | Metronome Bell |
| | B 1 | Bass Drum 2 (Acoust) |
| | C 2 | Bass Drum 1 (Rock) |
| | C# 2 | Side Stick |
| | D 2 | Snare Drum 1 |
| | D# 2 | Hand Clap |
| | E 2 | Snare Drum 2 |
| | F 2 | Low Floor Tom |
| | F# 2 | Closed Hi Hat (EXC 1) |
| | G 2 | Hi Floor Tom |
| | G# 2 | Pedal Hi Hat (EXC 1) |
| | A 2 | Low Tom |
| | A# 2 | Open Hi Hat (EXC 1) |
| | B 2 | Low-Mid Tom |
| | C 3 | Hi Mid Tom |
| | C# 3 | Crash Cymbal 1 |
| | D 3 | High Tom |
| | D# 3 | Ride Cymbal 1 |
| | E 3 | Chines Cymbal |
| | F 3 | Ride Bell |
| | F# 3 | Tambuourine |
| | G 3 | Splash Cymbal |
| | G# 3 | Cowbell |
| | A 3 | Crash Cymbal 2 |
| | A# 3 | Vibraslap |
| | B 3 | Ride Cymbal 2 |
| | C 4 | Hi Bongo |
| | C# 4 | Lo Bongo |
| | D 4 | Mute Hi Conga |
| | D# 4 | Open Hi Conga |
| | E 4 | Low Conga |
| | F 4 | Hi Timbal |
| | F# 4 | Low Timbal |
| | G 4 | High Agogo |
| | G# 4 | Low Agogo |
| | A 4 | Cabasa |
| | A# 4 | Maracas |
| | B 4 | Short Whistle (EXC 2) |
| | C 5 | Low Whistle (EXC 2) |
| | C# 5 | Short Guiro (EXC 3) |
| | D 5 | Long Guiro (EXC 3) |
| | D# 5 | Claves |
| | E 5 | Hi Wood Block |
| | F 5 | Low Wood Block |
| | F# 5 | Mute Cuica (EXC 4) |
| | G 5 | Open Cuica (EXC 4) |
| | G# 5 | Mute Triangle (EXC 5) |
| | A 5 | Open Triangle (EXC 5) |
| | A# 5 | Shaker |
| | B 5 | Jingle Bell |
| | C 6 | Belltree |
| | C# 6 | Castanets |
| | D 6 | Mute Surdo (ESC 6) |
| | D# 6 | Open Surdo (ESC 6) |
| | E 6 | |
| | F 6 | |
| | F# 6 | |
| | G 6 | |
| | G# 6 | |
| | A 6 | |
| | A# 6 | |
| | B 6 | |
| | C 7 | |
| | C# 7 | |
| | D 7 | |
| | D# 7 | |
| | E 7 | |
| | F 7 | |
| | F# 7 | |
| | G 7 | |
| | G# 7 | |
| | A 7 | |
| | A# 7 | |
| | B 7 | |
| | C 8 | |

Chapter 15 Demo Song List

| | | | |
|----|-------------|---|--------------------|
| 1 | BWV 846 | Prelude and Fugue No.1 in C Major | J.S.Bach |
| 2 | BWV 775 | Invention NO.4 in D minor | J.S.Bach |
| 3 | BWV779 | Invention NO.8 in F Major | J.S.Bach |
| 4 | BWV 847 | Prelude and Fugue in C minor | J.S.Bach |
| 5 | BWV 988 | ARIA Goldenberg-Variations | J.S.Bach |
| 6 | BWV 847 | Prelude and Fugue in C minor | J.S.Bach |
| 7 | Op.36,No4 | Sonatina in F Major | M.Clementi |
| 8 | K 15v | Movement for a Sonata in F Major | W.A. Mozart |
| 9 | K 333 | Piano Sonata No.13 in B flat Major 1st mov. | W.A. Mozart |
| 10 | K 485 | Rondo No.1 in D Major | W.A. Mozart |
| 11 | K 331 | Sonata No.11 in A Major 3rd mov. | W.A. Mozart |
| 12 | K 545 | Piano Sonate in C Major 1st mov. | W.A. Mozart |
| 13 | WoO10,No2 | Minuet in G Major | L.v. Beethoven |
| 14 | WoO59,No25 | Bagatelle in A minor (Für Elise) | L.v. Beethoven |
| 15 | Op.55,No1 | Sonatina in C Major | Fr.Kuhlau |
| 16 | Op.51,No1 | March Militaire | F.P.Schubert |
| 17 | Op.94,No3 | Moment Musical in F minor | F.P.Schubert |
| 18 | Op.90,No2 | Impromptu in E flat Major | F.P.Schubert |
| 19 | Op.90,No4 | Impromptu in A flat Major | F.P.Schubert |
| 20 | Op.100,No25 | La Chevaleresque | J.F.Burgmüller |
| 21 | Op.38,No2 | Song without word in C minor (Lost Happiness) | J.L.F. Mendelssohn |
| 22 | Op.30,No6 | Song without word in F sharp minor | J.L.F. Mendelssohn |
| 23 | KK lvb No10 | Waltz in E flat Major | F.F.Chopin |
| 24 | KK lvb No11 | Waltz in A minor | F.F.Chopin |
| 25 | Op.7,No1 | Mazurkas in B flat Major | F.F.Chopin |
| 26 | Op.69,No2 | Waltz in B minor | F.F.Chopin |
| 27 | Op.18 | Waltz in E flat Major | F.F.Chopin |
| 28 | Op.64,No2 | Waltz in C sharp minor | F.F.Chopin |
| 29 | Op.9,No2 | Nocturne in E flat Major | F.F.Chopin |
| 30 | Op.64 No1 | Waltz in D flat Major | F.F.Chopin |
| 31 | Op.28,No15 | Preludes in D flat Major | F.F.Chopin |
| 32 | Op.66 | Fantaisie-Impromptu in C sharp minor | F.F.Chopin |
| 33 | Op.15,No7 | Kinderszenen in F Major (Träumerei) | R. Schumann |
| 34 | Op.68,No10 | Album für die Jugend (The Happy Farmer) | R. Schumann |
| 35 | Op.15,No1 | Kinderszenen G Major | R. Schumann |
| 36 | S.541,No3 | Liebestraum | F. Liszt |
| 37 | Op.202,No4 | Dolly's Dreaming and Awakening | T. Oesten |
| 38 | Op.410 | Frühlingsstimmen (Voices of Spring Waltz) | J. Strauss |
| 39 | | The Swan (Canival of the Animal) | Saint-Saens |
| 40 | Op.39 | Blumenlied (Flower song) | G. Lange |
| 41 | | Valsette in G Major | F. Borowski |
| 42 | Op.39,No16 | Old French Song from Children's Album | P.I.Tchaikovsky |
| 43 | Op.39,No11 | Mazurka from Children's Album | P.I.Tchaikovsky |
| 44 | Op.39,No10 | Polka from Children's Album | P.I.Tchaikovsky |
| 45 | Op.37,No6 | June from The Season (Barcarolle) | P.I.Tchaikovsky |
| 46 | Op101,No7 | Humoresque | A. Dvořák |
| 47 | Op46,No3 | Peer Gynt (Anitra's Dance) | E. Grieg |
| 48 | L75,No1 | Suite Bergamasque Prelude | C.A.Debussy |
| 49 | L68 | Rêverie | C.A.Debussy |
| 50 | No1 | Arabesque I | C.A.Debussy |

Chapter 16 Sonatine List

| F.KUHLAU | NO |
|-------------------|-----------|
| OP.20 NO.1-1 | 1 |
| OP.20 NO.1-2 | 2 |
| OP.20 NO.1-3 | 3 |
| OP.20 NO.2-1 | 4 |
| OP.20 NO.2-2 | 5 |
| OP.20 NO.2-3 | 6 |
| OP.20 NO.3-1 | 7 |
| OP.20 NO.3-2 | 8 |
| OP.20 NO.3-3 | 9 |
| OP.55 NO.1-1 | 10 |
| OP.55 NO.1-2 | 11 |
| OP.55 NO.2-1 | 12 |
| OP.55 NO.2-2 | 13 |
| OP.55 NO.2-3 | 14 |
| OP.55 NO.3-1 | 15 |
| OP.55 NO.3-2 | 16 |
| M.CLEMENTI | NO |
| OP.36 NO.1-1 | 17 |
| OP.36 NO.1-2 | 18 |
| OP.36 NO.1-3 | 19 |
| OP.36 NO.2-1 | 20 |
| OP.36 NO.2-2 | 21 |
| OP.36 NO.2-3 | 22 |
| OP.36 NO.3-1 | 23 |
| OP.36 NO.3-2 | 24 |
| OP.36 NO.3-3 | 25 |
| OP.36 NO.4-1 | 26 |
| OP.36 NO.4-2 | 27 |
| OP.36 NO.4-3 | 28 |
| OP.36 NO.5-1 | 29 |
| OP.36 NO.5-2 | 30 |
| OP.36 NO.5-3 | 31 |
| OP.36 NO.6-1 | 32 |
| OP.36 NO.6-2 | 33 |

| J.HAYDN | |
|----------------------|-----------|
| HOB.16-35-1 | 34 |
| HOB.16-35-2 | 35 |
| HOB.16-35-3 | 36 |
| W.A.MOZART | NO |
| K.545-1 | 37 |
| K.545-3 | 38 |
| K.545-3 | 39 |
| L.V.BEETHOVEN | NO |
| OP.49 NO.2-1 | 40 |
| OP.49 NO.2-2 | 41 |
| OP.49 NO.1-1 | 42 |
| OP.49 NO.1-2 | 43 |
| J.L.DUSSEK | NO |
| OP.20 NO.1-1 | 44 |
| OP.20 NO.1-2 | 45 |

Chapter 17 GM Sound List

| Program Change | General MIDI Sound Name | Program Change | General MIDI Sound Name | Program Change | General MIDI Sound Name | Program Change | General MIDI Sound Name |
|----------------|-------------------------|----------------|-------------------------|----------------|-------------------------|----------------|-------------------------|
| 1 | Grand Piano1 | 33 | Acoustic Bass | 65 | Soprano Sax | 97 | Ice Rain |
| 2 | Grand Piano2 | 34 | Fingered Bass | 66 | Alto Sax | 98 | Soundtrack |
| 3 | Electric Grand | 35 | Picked Bass | 67 | Tenor Sax | 99 | Crystal |
| 4 | Honky Tonk | 36 | Fretless Bass | 68 | Baritone Sax | 100 | Atmosphone |
| 5 | Electric Piano1 | 37 | Slap Bass1 | 69 | Oboe | 101 | Brightness |
| 6 | Electric Piano2 | 38 | Slap Bass2 | 70 | English Horn | 102 | Goblin |
| 7 | Harpicord | 39 | Synth Bass1 | 71 | Bassoon | 103 | Echo Drops |
| 8 | Clavinet | 40 | Synth Bass2 | 72 | Clarinet | 104 | Star Theme |
| 9 | Celesta | 41 | Violin | 73 | Piccolo | 105 | Sitar |
| 10 | Glockenspiel | 42 | Viola | 74 | Flute | 106 | Banjo |
| 11 | Music Box | 43 | Cello | 75 | Recorder | 107 | Shamisen |
| 12 | Vibraphone | 44 | Contrabass | 76 | Pan Flute | 108 | Koto |
| 13 | Marimba | 45 | Treomlo Strings | 77 | Bottle Chiff | 109 | Kalimba |
| 14 | Xylophone | 46 | Pizzicato Strings | 78 | Shakuhachi | 110 | Bag Pipe |
| 15 | Tubular Bells | 47 | Harp | 79 | Whistle | 111 | Fiddle |
| 16 | Santur | 48 | Timpani | 80 | Ocarina | 112 | Shanai |
| 17 | Organ1 | 49 | Strings | 81 | Square Wave | 113 | Tinkle Bell |
| 18 | Organ2 | 50 | Slow Strings1 | 82 | Saw Wave | 114 | Agogo |
| 19 | Organ3 | 51 | Synth Strings1 | 83 | Syn. Calliope | 115 | Steel Drums |
| 20 | Church Organ | 52 | Synth Strings2 | 84 | Chiffer Lead | 116 | Woodblocks |
| 21 | Reed Organ | 53 | Choir Aahs | 85 | Charang | 117 | Taiko |
| 22 | Accordion | 54 | Voice Doo's | 86 | Solo Vox | 118 | Melo Tom1 |
| 23 | Harmonica | 55 | Synth Vox | 87 | 5th Saw Wave | 119 | Synth Drum |
| 24 | Bandoneon | 56 | Orchestra Hit | 88 | Bass & Lead | 120 | Reverse Cym |
| 25 | Nylon String Gtr | 57 | Trumpet | 89 | Fantasia | 121 | Gtr Fret Noise |
| 26 | Steel String Gtr | 58 | Trombone | 90 | Warm Pad | 122 | Breath Noise |
| 27 | Jazz Gtr | 59 | Tuba | 91 | Polysynth | 123 | Seashore |
| 28 | Clean Gtr | 60 | Muted Trumpet | 92 | Space Voice | 124 | Bird |
| 29 | Muted Gtr | 61 | French Horn | 93 | Bowed Glass | 125 | Telephone |
| 30 | Overdrive Gtr | 62 | Brass1 | 94 | Metal Pad | 126 | Helicopter |
| 31 | Distortion Gtr | 63 | Synth Brass1 | 95 | Halo Pad | 127 | Applause |
| 32 | Gtr Harmonics | 64 | Synth Brass2 | 96 | Sweep Pad | 128 | Gunshot |

Chapter 18 **Specification**

| | |
|---------------------|--|
| Keyboard | 88-Note, Fully-Weighted Hammer -Action Keyboard |
| Exterior Color | Rosewood / White |
| Appearance | Pattern type |
| Voice Type | Stereo PCM |
| Polyphony | 189 Polyphony |
| Voice | 30 Voices + GM 128 Voices |
| Rhythm | 30 Styles, 12 Metronome |
| Play Mode | Layer, Split, Duo |
| Keyboard Touch | 10 Steps |
| Song Learning | Beyer, Czerny 30, 40, 100, Sonatine, Hanon, Brugmuller |
| Demo Songs | 50 Piano masterpieces |
| Recording | 1 Track, 4000 Notes |
| Pedals | 3 pedals (Soft, Sostenuto, Sustain) |
| Display | 3 x 7 Segment |
| Additional Function | Mater Volume, Tune, Transpose, Metronome |
| Connection | Headphone x2, Audio IN/OUT, SMART I/O, USB MIDI/Audio |
| Audio Power | 25W X 25W |
| Power Consumption | 50W |
| Speaker | 5 X 7 Inches Woofer |
| Dimensions | 1390 x 433 x 840 (W x D x H) |

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