

artesia

AM-3 Digital Piano



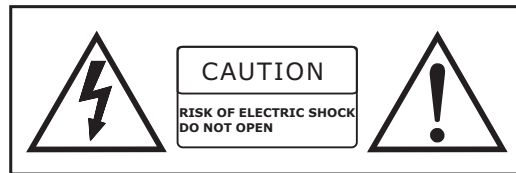
Owner's Manual

Virgin Musical Instruments

Precaution

Thank you for purchasing this digital instrument. For correct operation and safety, please read the manual carefully and keep it for future reference.

Safety Precautions



The lightning flash with 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.



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 Instructions



(Figure 1)

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings; install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over (Figure 1).
- 13) Unplug this apparatus during lightning storms or when unused for a long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

CAUTION: Apparatus shall not be exposed to dripping or splashing, and no objects filled with liquids, such as vases, shall be placed on the apparatus.

Always make sure all batteries are inserted the correct way around to match the +/- polarity markings.

Always replace all of the batteries at the same time. Do not combine old and new batteries, also do not mix battery types, as this can cause overheating, or fire, or battery fluid leakage.

Remove the batteries from the instrument if it is not to be used for a long time.

WARNING: This product contains chemicals, including lead, known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

Thank you for choosing the Piano!

Your portable 88 note piano not only contains leading and innovative technology but it also is developed by and for musicians of all playing levels. Featuring a natural balanced, weighted hammer action keyboard action and an advanced three layer acoustic range tone generation sound technology, that will provide you with a rich performing and playing experience.

This piano offers many features and connection possibilities. To get the most out of your instrument, please read this manual and try out the various functions that can compliment your playing style.

Whether it is on stage, studio or home, your new portable piano is designed to give you years of musical enjoyment.

Features Include:

- . 88 key weighted hammer action keyboard
- . 16 Voices
- . DSP functions for additional realism
- . USB to Host and USB Audio Connection
- . MIDI, Stereo and Mono Line Outs
- . Battery Operated (6 D Cell Batteries are not included)
- . Includes DC Adaptor, Sustain Pedal, Music Rack and more

FCC STATEMENT

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment 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 equipment 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 equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

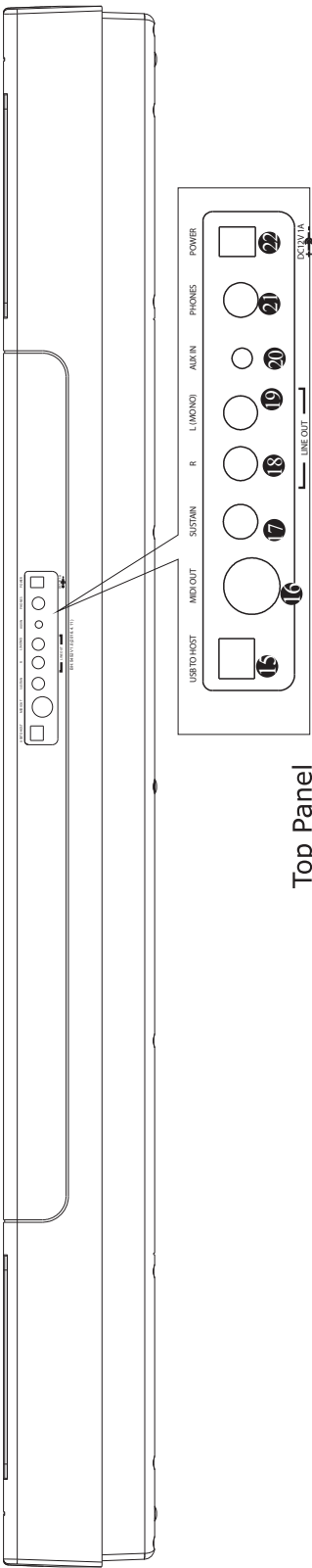
- . Reorient or relocate the receiving antenna.
- . Increase the separation between the equipment and receiver.
- . Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- . Consult the dealer or an experienced radio/TV technician for help.



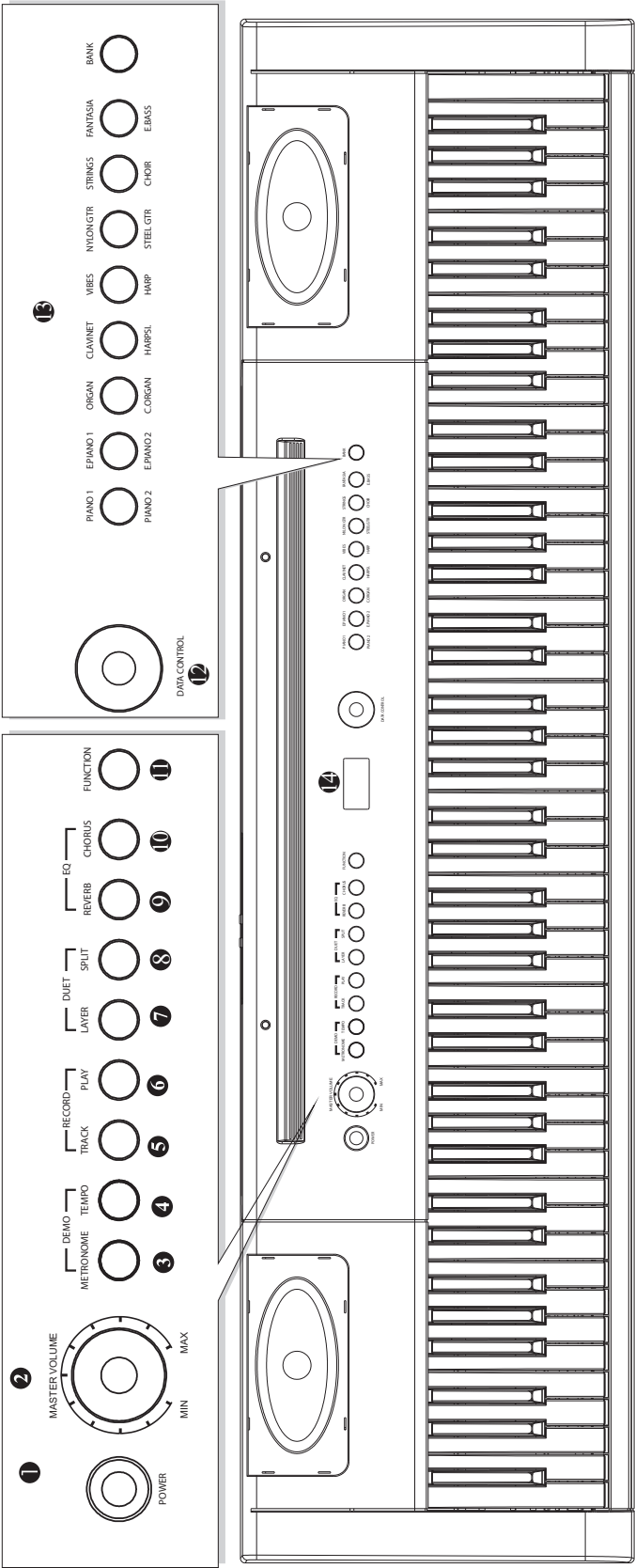
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Rear Panel



Top Panel



Panel Control

1 POWER

2 MASTER VOLUME

3 METRONOME

4 TEMPO

5 RECORD/TRACK

6 RECORD/PLAY

7 LAYER

8 SPLIT

9 REVERB

10 CHORUS

11 FUNCTION

12 DATA CONTROL

13 VOICES SELECT

14 LCD DISPLAY

15 USB TO HOST

16 MIDI OUT

17 SUSTAIN

18 LINE OUT(R)

19 LINE OUT(L)(MONO)

20 AUX IN

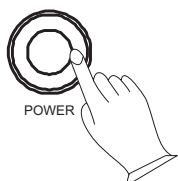
21 PHONES

22 POWER

Getting Started

Turn on the power

Before playing turn the power on by pressing the POWER switch, the panel LCD will turn on.

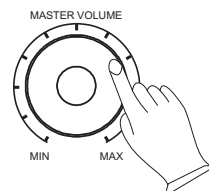


NOTE

This piano has an auto off function. If you don't engage in any operations, the piano will turn off after 30 minutes.

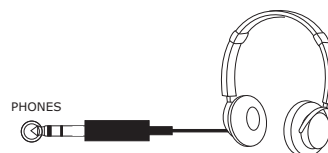
Set the Volume

Initially set the [MASTER VOLUME] about half way between the "MIN" and "MAX" settings. You can adjust the volume to accommodate your playing style.



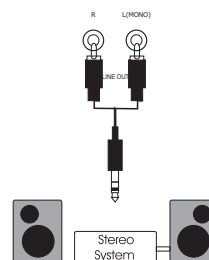
Using Headphones

One standard stereo headphones can be plugged in here for private practice or late-night playing. The internal speaker system is automatically shut off when a pair of headphones is plugged into PHONES jacks.



Using External Sound System

The Line Out jack(R) and Line Out jack(L)(MONO) can be used to deliver the output of the piano to a keyboard amplifier, stereo sound system, mixing console or tape recorder.



Aux In

The Aux In stereo RCA connectors allow you to mix an external sound source (such as a CD player, MP3 player or computer output) with the piano's internal sounds, for playback through the piano's built-in speakers or headphones outputs.

MIDI OUT Jack

MIDI (Musical Instrument Digital Interface) is a world-standard communication interface which allows electronic musical instruments to communicate with each other, by sending and receiving compatible note, program change and other types of MIDI data.

This terminal transmits data from this instrument to other MIDI devices. The transmitted data includes the note and touch velocity produced while playing on the keyboard, as well as voice changes. Demo songs are not transmitted.

Using USB-MIDI

This piano allows the transfer of MIDI over USB. There is a specific way in which the MIDI signals are routed for maximum flexibility.

In a standard Digital Piano, the built-in keyboard sends MIDI signals to the internal sound bank as well as the 5-pin MIDI output. In this digital piano, the keyboard not only sends MIDI signals to the internal sound bank (just like normal) but also sends MIDI signals simultaneously to the internal MIDI connection which hooks up inside the device to the Audio Interface. It is the Audio Interface that is used to control the USB-MIDI.



USB TO HOST

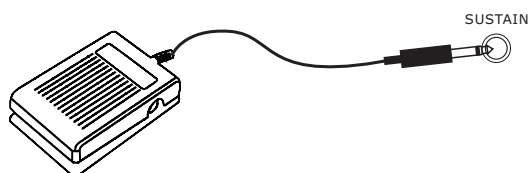
USB Audio

The piano has USB Audio.

This means that you can plug in via a USB Cable to your Laptop, Tablet, iPad, and SmartPhone and be able to hear your device's audio through the piano's speaker system. This is very useful for example when you are recording your piano with your laptop and want to listen back through the piano's speakers. Or if you are using some of the instrument voices on the Garage Band app from your iPad, now you can hear it through the piano's sound delivery system instead of just the iPad's speakers or headphones.

Sustain Pedal

The sustain pedal included with the piano will cause piano key sounds to slowly decay as if they were being held down.



NOTE

Please make sure that the piano is turned off before connecting the pedal. Otherwise, it may not be read by the piano correctly.

If you use different sustain pedal and you need to change the polarity for proper operation, you will need to turn off the piano and then hold down the foot pedal during power up.

Using the DC Power Jack

Connect the included DC power adapter to the Power Supply Jack.

Please use only the provided power adapter.

Using Battery Power

Always make sure all batteries are inserted the correct way around to match the +/- polarity markings.

Always replace all of the batteries at the same time. Do not combine old and new batteries, also do not mix battery types, as this can cause overheating, or fire, or battery fluid leakage.

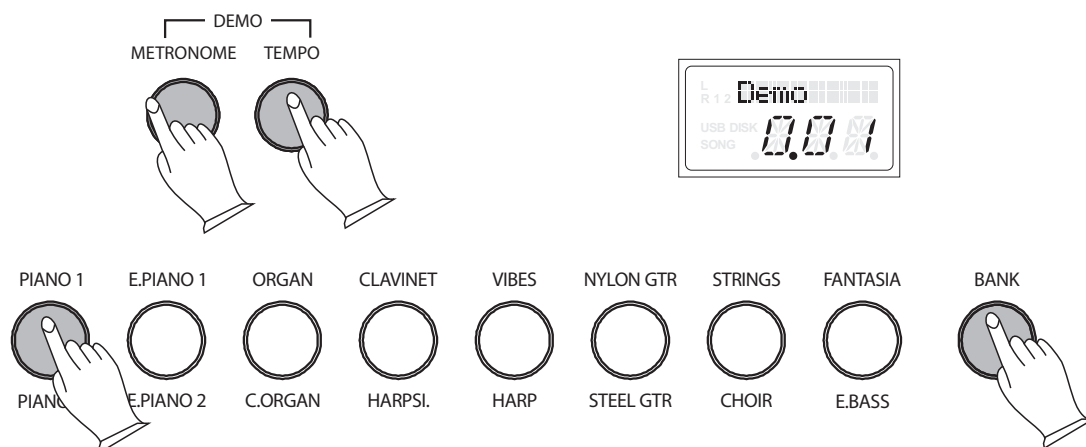
Remove the batteries from the instrument if it is not to be used for a long time.

Demo Songs

There are 16 Demo songs in the piano. Each demo song will demonstrate a different voice. Here's how you can select and play the Demo songs.

Select the Demo song

The Demo songs may be selected by pressing the [METRONOME] and [TEMPO] buttons together simultaneously. The [METRONOME] button and the [TEMPO] buttons will flash . The first Demo song will play.

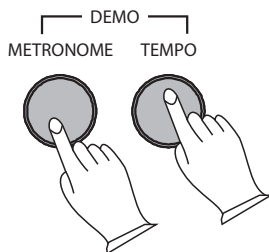


During playback, another song may be chosen by pressing a different voice select button. You can also press the [BANK] button then press a voice button to select a Demo song in the bottom line. You can turn the Data Control to select the desired song.

Stop the Demo song

To stop the Demo song. Press the [METRONOME] and [TEMPO] buttons together again.

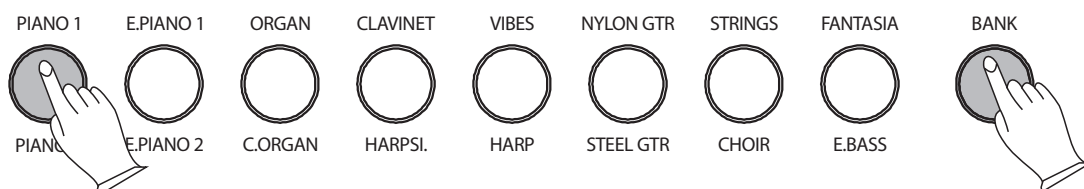
To replay the current song from the beginning, press the lighting voice select button.



Selecting a Voice

The piano has 16 built-in voices, which include several pianos as well as other instruments. These digitally-sampled musical instrument sounds may be selected one at a time, layered to produce two voices at once.

To select an instrument voice (Main voice), press the appropriate Voice Select button on the front panel.



NOTE

Press the [BANK] button and its indicator will turn on, then when you press an instrument select button the instrument that you hear is the instrument listed on the bottom of the voice button.

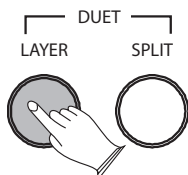
You also can turn the Data Control knob to select the desired voice.

Layer Mode

Press the [LAYER] button to select layer voice mode, two voices will sound simultaneously when you play keyboards.

1. Select Layer Voice

Press the [LAYER] button, the Layer indicator is flashing, turn the Data Control knob to select the second voice.



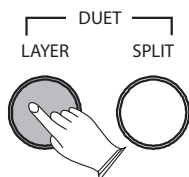
NOTE

To change the layer voice Pan. Octave, please see the details in [FUNCTION] section (P.22. P.23).

To change the layer voice volume, hold down the [LAYER] button and turn the Data Control knob to set the value or please see the details in [FUNCTION] section (P.18).

2. Exit the Layer Mode

Press the [LAYER] again, the Layer indicator turns off and the Layer mode is no longer active.

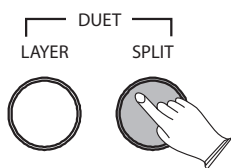


Split Mode

Press the [SPLIT] button to select split mode, your keyboard will be split into two sections which means different voices can be played with the left and right hands at the same time.

1. Select Split Voice

Press [SPLIT] button, the Split indicator is flashing, turn the Data control to select the left voice.



2. Changing the Split Point

Hold down the [SPLIT] button for about 2 seconds, then play any of the keys on the keyboard to select the split point.



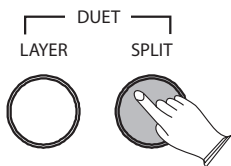
NOTE

To change the split voice Pan. Octave, please see the details in [FUNCTION] section (P.23, P21).

To change the split voice volume, hold down the [SPLIT] button and turn the Data Control knob to set the value or please see the details in [FUNCTION] section (P.17).

3. Exit the Split Mode

Press [SPLIT] again, the Split indicator turns off and the Split mode is no longer active.



Effect

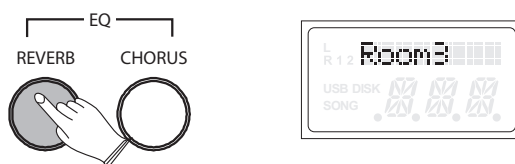
This function allows you to perform the overall sound in a realistic style.

Reverb

The [REVERB] button selects a number of digital reverb effects that you can use for extra depth and expressive power.

Press [REVERB] button can turn off or turn on the reverb effect.

Press [REVERB] button, turn the DATA control knob to select reverb type.



The reverb types in the list below can be selected from the reverb display.

1	2	3	4	5	6	7	8
Hall1	Hall2	Room1	Room2	Room3	Stage1	Stage2	Plate

NOTE

Press [REVERB] button repeatedly to turn on or turn off the reverb effect.

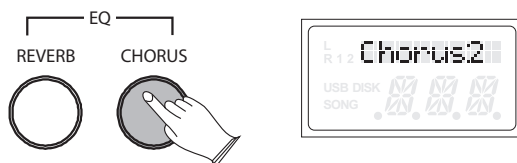
Adjusting Reverb Depth

Hold down the [REVERB] button and turn the Data Control knob to set the value.

You also can reference: "Reverb Level" (P.19).

Chorus

Shimmering, broadening effect. Press [CHORUS] button, turn the Data Control knob to select chorus type.



The chorus types in the list below can be selected from the chorus display.

1	2	3	4	5	6	7	8
Chorus1	Chorus2	Chorus3	Chorus4	Feedback	Flanger1	ShrtDely	ShrtDIFb

9	10	11	12	13			
Flanger2	Flanger3	Celeste 1	Celeste 2	Celeste 3			

NOTE

Press [CHORUS] button repeatedly to turn on or turn off the chorus effect.

Adjusting Chorus Depth

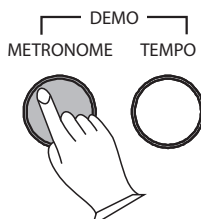
Hold down the [CHORUS] button and turn the Data Control knob to set the value.

You also can Reference: "Chorus Level" (P.19).

Metronome

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

Press the metronome button to turn the metronome on.



The time signature of the metronome can be set by turning the Data Control knob while turning on the metronome function.

Time signature: 2/2, 1/4, 2/4, 3/4, 4/4, 5/4, 6/4, 3/8, 6/8, 7/8, 9/8, 12/8.



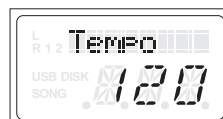
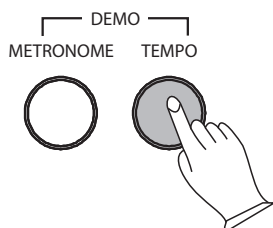
NOTE

To change the Metronome volume, hold down the [METRONOME] button and turn the Data Control knob to set the value or please see the details in [FUNCTION] section (P.18).

Tempo

Press the [TEMPO] button to turn on the function.

Turn the Data Control knob, you can adjust the speed from 20 to 280.

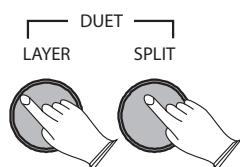


Duet Mode

With the duet feature engaged the keyboard is divided into two sections that play the same notes. The two sections, left A1-C3 and right C#3-C7 have the exact same notes and share the same voice, octaves and volume. This is a great feature for teaching or when two people want to play the piano simultaneously.

When the duet feature is engaged, the pedals will automatically change configuration so there are two sustain pedals, one for each portion of the keyboards.

Press the [LAYER] and [SPLIT] buttons together repeatedly to turn on or turn off Duet mode.



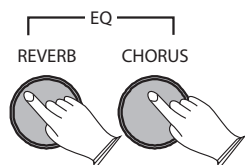
Press the [LAYER] and [SPLIT] buttons together again to exit the Duet mode.

NOTE

Engaging the DUET feature will disable the Layer and Split modes.

EQ Mode

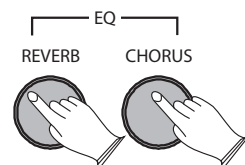
Press the [REVERB] and [CHORUS] buttons together to enter the EQ mode. You can turn the Data Control to select the EQ Bass or EQ Treble.



EQ Bass Level Setting

Press the [REVERB] and [CHORUS] buttons together to enter the EQ mode. You can turn the Data Control to select the EQ Bass.

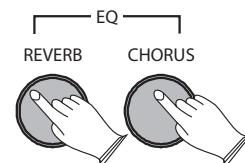
Press the [REVERB] and [CHORUS] buttons together and the indicators will flash, turn the Data control to set the value:-12-012.



EQ Treble Level Setting

Press the [REVERB] and [CHORUS] buttons together to enter the EQ mode. You can turn the Data Control to select the EQ Treble.

Press the [REVERB] and [CHORUS] buttons together and the indicators will flash, turn the Data control to set the value:-12-012.



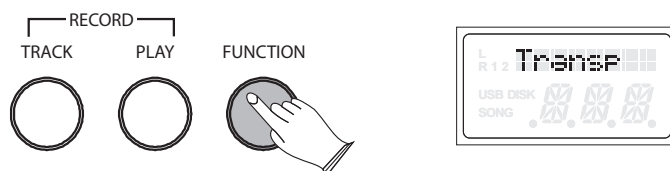
Function

Press [FUNCTION] button to enter the function menu. Turn the [DATA CONTROL] knob to select the function . Press the [FUNCTION] button again into the option, turn the [DATA CONTROL] to set the parameter. The option and the parameters are as the follows:

Display Content	Range	Default
TRANSP	-12~012	000
Tune	-64~063	000
M.Oct	-02~002	000
S.Oct	-02~002	000
L.Oct	-02~002	000
M.Pan	-64~063	000
S.Pan	-64~063	000
L.Pan	-64~063	000
Local	ON/OFF	On
T Normal	High,Low,Normal	Normal
M.Vol	000~127	127
S.Vol	000~127	127
L.Vol	000~127	075
MetroVol	000~127	100
R Lvl	000~127	036
C Lvl	000~127	036

Transpose

Press [FUNCTION] button to enter the function menu.
Turn the Data Control knob to select "Transp".



Press the [FUNCTION] button to confirm and the button will flash.
Turn the Data Control knob to set the transpose value: -12~012 (Default: 000).



Tune

Press [FUNCTION] button to enter the function menu.
Turn the Data Control knob to select "Tune".

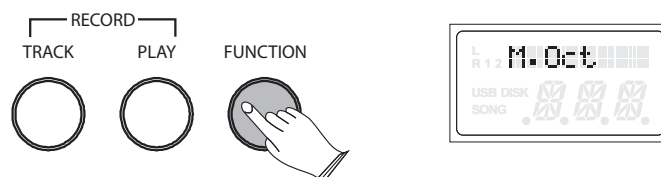


Press the [FUNCTION] button to confirm and the button will flash.
Turn the Data Control knob to set the tune value: -64~063 (Default: 000).



Main Voice Octave

Press [FUNCTION] button to enter the function menu.
Turn the Data Control knob to select "M.Oct".

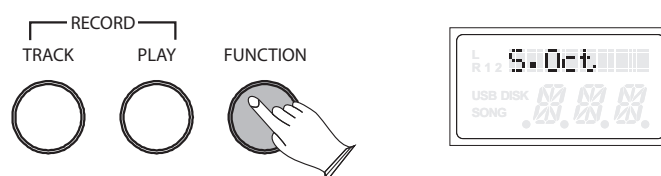


Press the [FUNCTION] button to confirm and the button will flash.
Turn the Data Control knob to set the main voice octave value: -02~002
(Default: 000).



Split Voice Octave

Press [FUNCTION] button to enter the function menu.
Turn the Data Control knob to select "S.Oct".

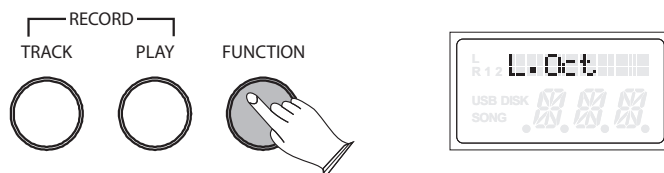


Press the [FUNCTION] button to confirm and the button will flash.
Turn the Data Control knob to set the split voice octave value: -02~002
(Default: 000).



Layer Voice Octave

Press [FUNCTION] button to enter the function menu.
Turn the Data Control knob to select "L.Oct".

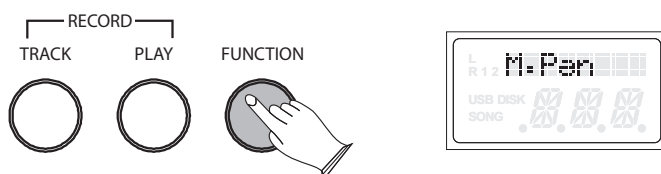


Press the [FUNCTION] button to confirm and the button will flash.
Turn the Data Control knob to set the layer voice octave value: -02~002
(Default: 000).



Main Voice Pan

Press [FUNCTION] button to enter the function menu.
Turn the Data Control knob to select "M.Pan".

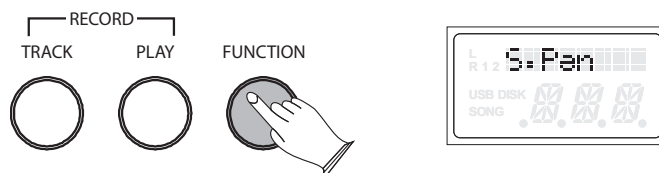


Press the [FUNCTION] button to confirm and the button will flash.
Turn the Data Control knob to set the main voice pan value: -64~063
(Default: 000).



Split Voice Pan

Press [FUNCTION] button to enter the function menu.
Turn the Data Control knob to select "S.Pan".

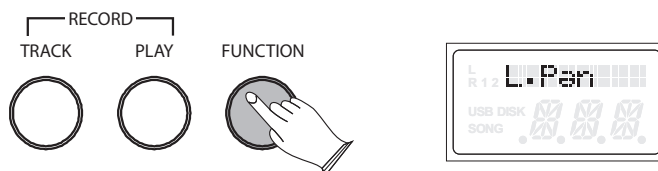


Press the [FUNCTION] button to confirm and the button will flash.
Turn the Data Control knob to set the split voice pan value: -064~063
(Default: 000).

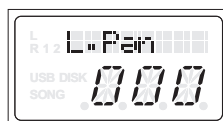


Layer Voice Pan

Press [FUNCTION] button to enter the function menu.
Turn the Data Control knob to select "L.Pan".

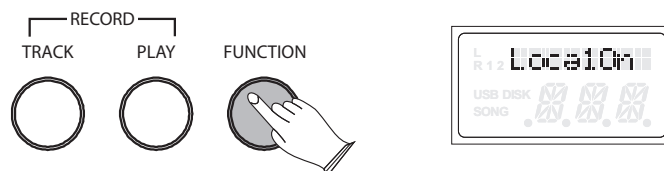


Press the [FUNCTION] button to confirm and the button will flash.
Turn the Data Control knob to set the layer voice pan value: -64~063
(Default: 000).



Local

Press [FUNCTION] button to enter the function menu.
Turn the Data Control knob to select "LocalOn".

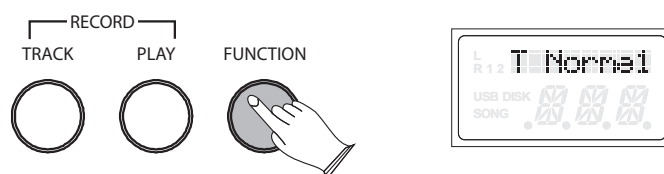


Press the [FUNCTION] button to confirm and the button will flash.
Turn the Data Control knob to set local on or off.



Touch

Press [FUNCTION] button to enter the function menu.
Turn the Data Control knob to select "T Normal".



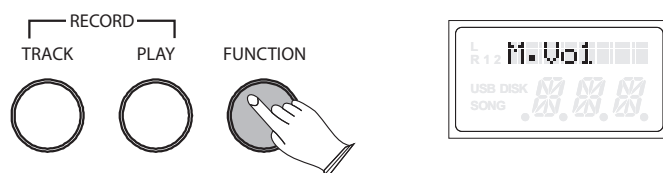
Press the [FUNCTION] button to confirm and the button will flash.
Turn the Data Control knob to set the touch types: Normal, Low, High.
(Default: Normal).



Main Voice Volume

Press [FUNCTION] button to enter the function menu.

Turn the Data Control knob to select "M.Vol".



Press the [FUNCTION] button to confirm and the button will flash.

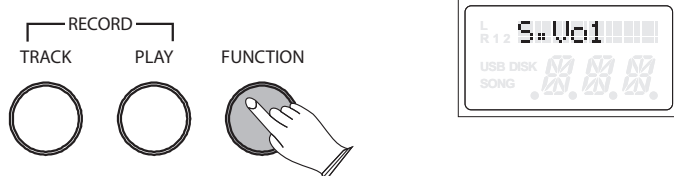
Turn the Data Control knob to set the main voice volume value: 000~127 (Default: 127).



Split Voice Volume

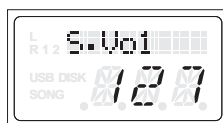
Press [FUNCTION] button to enter the function menu.

Turn the Data Control knob to select "S.Vol".



Press the [FUNCTION] button to confirm and the button will flash.

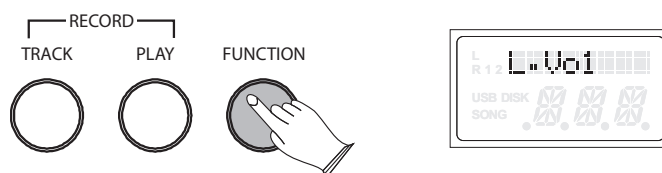
Turn the Data Control knob to set the split voice volume value: 000~127 (Default: 127).



Layer Voice Volume

Press [FUNCTION] button to enter the function menu.

Turn the Data Control knob to select "L.Vol".



Press the [FUNCTION] button to confirm and the button will flash.

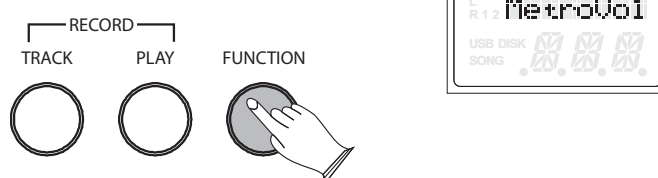
Turn the Data Control knob to set the Layer voice volume value: 000~127 (Default: 075).



Metronome Volume

Press [FUNCTION] button to enter the function menu.

Turn the Data Control knob to select "MetroVol".



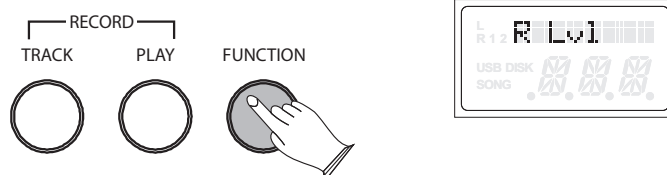
Press the [FUNCTION] button to confirm and the button will flash.

Turn the Data Control knob to set the metronome volume value: 000~127 (Default: 100).



Reverb Level

Press [FUNCTION] button to enter the function menu.
Turn the Data Control knob to select "R Lvl".

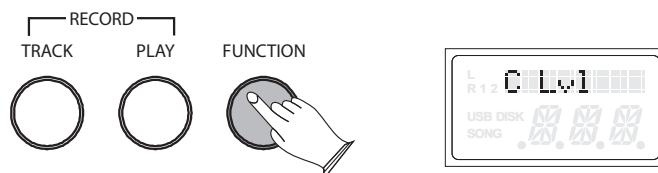


Press the [FUNCTION] button to confirm and the button will flash.
Turn the Data Control knob to set the reverb value: 000~127 (Default: 036).



Chorus Level

Press [FUNCTION] button to enter the function menu.
Turn the Data Control knob to select "C Lvl".

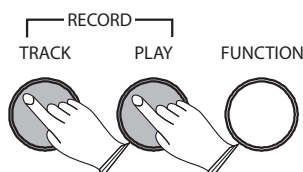


Press the [FUNCTION] button to confirm and the button will flash.
Turn the Data Control knob to set the Chorus value: 000~127 (Default: 036).



Recording

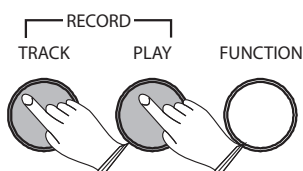
The recording function features a two track recorder that lets you record what you play on the keyboard and then play it back. Two tracks mean that you can “overdub” one part on top of another, using a different voice if you like.



The recorder feature is a useful addition to any keyboard study program since it lets you hear exactly how you sound from the listener's perspective. It can also be just plain fun. This recorded information is nonvolatile and therefore will not be lost when the power is turned off. The record function records all settings exactly as you selected and performed them.

Recording

- 1). Prepare to record by setting the voice, tempo, reverb level, or other parameters as desired.
- 2). Select a track: There are two tracks available for recording. Press the [TRACK] repeatedly to select track 1 or track 2.

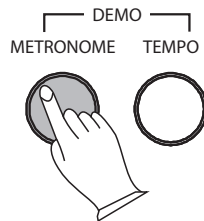


Select the desired voice and press the [TRACK] and the [PLAY] buttons together to enter the recording mode and the track button indicator will flash.

NOTE

If you already have recorded on the other track, the recorded music will play as a reference for you while you record the new track.

3). Metronome: Press the [METRONOME] button to enable the metronome as a reference, if so desired. The metronome sounds without any beat pattern, just giving the tempo. You can adjust the metronome's beat pattern and tempo as usual before recording.



NOTE

The metronome sound will not be recorded. If one track has been recorded, when recording another track, its tempo and beat pattern will be the same as the first track recorded. If you change the tempo on the second track, the new tempo will be applied for both tracks.

4). Record: If the track 1 or track 2 are selected and the [TRACK] button blinking, the recording will begin as soon as you play the keyboard. While recording, the recording track indicator will be flashing.

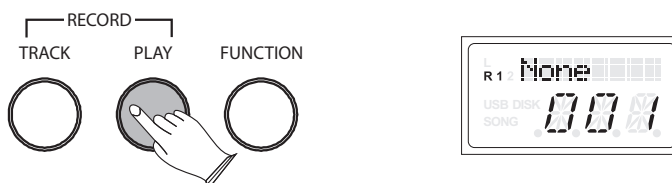
5). Stop recording to the track.
Recording stops when pressing the [TRACK] button.

NOTE

If the track 1 or track 2 has data recorded, the [TRACK] indicator will light and it will play when the record is started.

Playing

1). Press the [PLAY] button to hear the recorded track(s). If there is no data in the track, the LCD will display "None".



You can change the tempo of your recorded track by pressing the [TEMPO] button while the recording is being played back. You may also accompany the recorded tracks on the keyboard while the recording is playing back.

2). Press the [PLAY] button to stop the playback. Playback will also stop automatically when the recording reaches its end.

In step 2, you can change the tempo of the track that is playing back temporarily. You could also change the tempo for the recorded tracks (Reference: Tempo P.13)

Tracks will playback at the new tempo and this tempo will be set for the tracks. Beat pattern cannot be changed.

Clearing

To erase the music recorded on the tracks, just record over the track you want to erase. Hold the [TRACK] button and the recorded data is deleted the current recorded track.

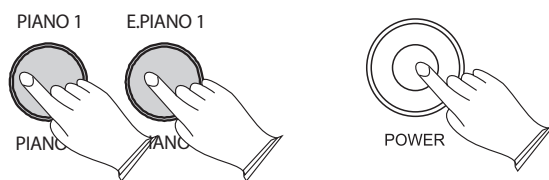
When you recorded a new song into a track, old data is deleted in the track. Backing Up the recorded song. Even if the power turns off, the recorded song memory is not deleted.



Factory Reset

Performing a Factory Reset will clear all battery backed memory and restore all functions to their factory default settings, just like they were when you used this piano for the first time.

1. Turn the Power Off.
2. Hold down the [PIANO1] and the [E.PIANO1] buttons while powering on the piano. It can restore function to the factory defaults.



Appendix

MIDI Implementation Chart

Function		Transmitted	Recognized	Remarks
Basic Channel	Default	1-16	1-16	*Up to 3 channels simultaneously
	Changed	1-16	1-16	
Mode	Default	Mode 3	Mode 3	
	Messages Altered	Yes *****	No No	
Note Number	True voice	0~127 *****	0~127	
Velocity	Note ON	Yes	Yes	
	Note OFF	Yes	Yes	
After Touch	Key's	No	No	
	Channels	No	No	
Pitch Bend		No	No	
Control Change		0-127	0,1,5,6,7,10,11, 32,64,65,66,67, 80,81,91,93,100, 101,121	
Program Change	True #	0-127 *****	0-15	16
System Exclusive		Yes*	Yes*	*The controller will recognize and respond to GM Device inquiries. Master Tune supported. Master Volume supported.
System Common	Song Position Pointer	No	No	
	Song Select	No	No	
	Tune Request	No	No	
System Real Time	Clock	No	No	
	Commands	No	No	
Aux Messages	All Sounds Off*	Yes	Yes	* The controller will respond to GM, but not piano voices.
	Reset All Controllers	Yes	Yes	
	Local ON/OFF*	Yes	Yes	
	ALL Notes OFF	Yes	Yes	
	Active Sensing	No	Yes	
	System Reset	No	Yes	
Notes				

MIDI Channel Modes		
	POLY OFF	MONO ON
OMNI ON	Mode1	Mode3
OMNI OFF	Mode2	Mode4

Troubleshooting Hints

• When the instrument is turned on or off, a Popping sound is temporarily produced.	This is normal and indicates that the instrument is receiving electrical power.
• When using a mobile phone, noise is produced. Using a mobile phone in close proximity to the instrument may produce interference.	To prevent this, turn off the mobile phone or use it further away from the instrument.
• Not all of the voices seem to sound, or the sound seems to cut off.	The instrument is polyphonic up to a maximum of 64 notes — including Dual voice, Split Voice, auto accompaniment, song, and Metronome. Notes exceeding this limit will not sound.
• The Auto Accompaniment does not sound properly.	Make sure that the Auto Accomp Volume Function is set to an appropriate level. Is the Split Point set to an appropriate key for the chords you are playing? Set the Split Point to an appropriate position on the keyboard. Is the chord indicator showing in the LCD display? If it is not showing, press the CHORD button so that it does show.
• No sound produced by the keyboard, but the lights and screen work.	Check that the master volume control is not set to minimum. Check that nothing is plugged into the headphone socket.
• The sound of the voice changes from note to note.	This is normal. The digital tone generation uses multiple recordings (samples) of an instrument across the range of the keyboard; The actual sound of the voice may be slightly different from note to note.
• The volume is too soft. • The sound quality is poor. • The rhythm stops unexpectedly or will not play. • The recorded data of the song, etc. does not play correctly. • The LCD display suddenly goes dark, and all panel settings are reset.	The batteries are low or dead. Replace all six batteries with completely new ones, or use the supplied AC adaptor. If you have lost or damaged your AC adaptor, please contact your nearest store for a correct replacement adaptor. An incorrect AC mains adaptor which is not rated sufficiently can cause malfunction or damage.
• To completely restore all settings as per factory settings	Perform a factory reset, Please refer to content in this owner's manual. All of the user setting will be erased and the default factory settings will be applied to the instrument.
• Power suddenly and unexpectedly turns off, after a period of not touching the keys.	This is normal and the Auto Power Off function may have been activated. If you need to disable the Auto Power Off function, please see how to do this in the owner's manual.
• The sustain pedal or footswitch seems to produce the opposite effect. Example pressing the footswitch deactivates the sustain, and releasing the footswitch triggers the sustain.	The polarity of the footswitch needs to be correctly detected. Make sure the jack plug for the footswitch is connected. Switch the instrument on whilst not touching the pedal.

Specifications

Keyboard:	88 standard-size hammer keys with touch response
Voice:	16
Polyphony:	64
Voice Control:	Layer, Layer level, Split, Duet, Tuning, Transpose
Metronome:	On/off, Level, Time signature
Pedal Response:	Sustain
Effect:	Reverb, Chorus, Bass EQ, Treble EQ
Demo Songs:	16
MIDI & Audio:	Local On/Off; USB Audio
Connectors:	USB TO HOST, MIDI OUT, SUSTAIN, LINE OUT(R), LINE OUT(L)(MONO), AUX IN, PHONES, DC Power
Speakers:	15W/4ohm x 2
Dimensions(W x D x H):	51.8x 13.3 x 5.1(inches), 1315 x 337 x 130(mm)
Weight:	13.5Kg
Supplied Accessories:	Owner's Manual, Music Rest, Power Supply

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