WILLIAMS

LEGATO LE
DIGITAL PIANO

OWNER'S MANUAL

WILLIAMS

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL
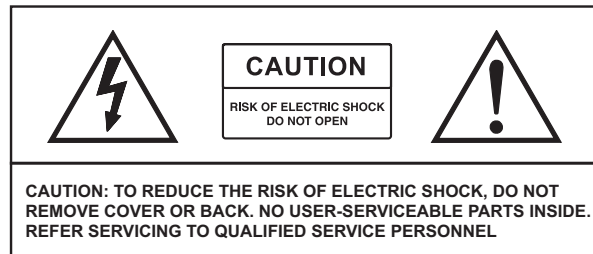
IMPORTANT SAFETY INSTRUCTIONS

• Do not use near water.

• Clean only with a soft, dry cloth.

• Do not block any ventilation openings.

• Do not place near any heat sources such as radiators, heat registers, stoves, or any other apparatus (including amplifiers) that produces heat.

• Do not remove the polarized or grounding-type plug.

• Protect the power cord from being walked on or pinched.

• Only use the included attachments/accessories.

• Unplug this apparatus during lightning storms or when unused for a long period of time.

• Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as 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.

FCC STATEMENTS

1. Caution: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

2. NOTE: This equipment has been tested and found to comply with the 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.

INTRODUCTION

Congratulations! You have just purchased a state-of-the-art digital piano that provides remarkable acoustic sound and feel. We recommend that you read through this owner's manual carefully, so you can get the most enjoyment from your new piano.

Features:

- 88-key touch-sensitive piano keyboard
- 10 piano and keyboard voices, & 10 demo songs
- Metronome feature with variable tempo to facilitate practice or recording
- USB Audio and MIDI connections

- Stereo/mono line out jacks
- Music rest
- AC Adapter
- Sustain pedal

BEFORE YOU GET STARTED

Shipment

Your piano was carefully packed at the factory, and the packaging was designed to protect the unit from rough handling. Nevertheless, we recommend that you carefully examine the packaging and its contents for any signs of physical damage that may have occurred during transit.

- If the unit is damaged, notify us immediately at Williams **Product Support: (888) 241-1582**
- Always use the original packing carton to prevent damage during storage or transport
- Make sure that no children are left unsupervised with the piano or its packaging
- Please ensure proper disposal of all packing materials

INITIAL OPERATION / QUICK START

- Set the piano on a secure, flat surface at a comfortable height for playing.
- Insert the AC adapter into the back panel. Then plug in the power cord into a 110V supply.
- Plug the sustain pedal into the Sustain jack on the back panel of the piano.
- Insert the supplied music rest into the two slots on the top panel.
- Press the power switch on the left side of the front panel. The LED on the button will light.
- NOTE: Set the volume control at minimum level when you connect the unit to power.
- Press the Voice Select button for the desired voice.
- Adjust the volume control.

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TAKING CARE OF YOUR DIGITAL PIANO

This Williams Legato LE digital piano will supply you with years of musical enjoyment if you follow the suggestions listed below.

Product Servicing

This product should be serviced by qualified service personnel when:

- The power supply cord or the plug has been damaged.
- Liquid has been spilled into the unit or it has been exposed to rain.
- The instrument does not appear to operate normally or exhibits a marked change in performance.
- The instrument has been dropped or the cabinet has been damaged.
- Please contact support@williamspianos.com for parts and service information.

Handling and Transport

- Never apply excessive force to the controls, connectors or other parts of the instrument.
- Always unplug cables by gripping the plug firmly, not by pulling on the cable.
- Disconnect all cables before moving the instrument.
- Physical shocks caused by dropping, bumping, or placing heavy objects on the instrument can result in superficial or operational damage.
- Carefully check the volume control before playing. Excessive volume can cause permanent hearing loss.

Cleaning

- Clean the cabinet and panel with a soft, dry cloth. Do not use paint thinner or petrochemical based polishes.
- To maintain the luster of the keys and buttons, wipe with a clean, lightly dampened cloth, and then polish with a soft, dry cloth.
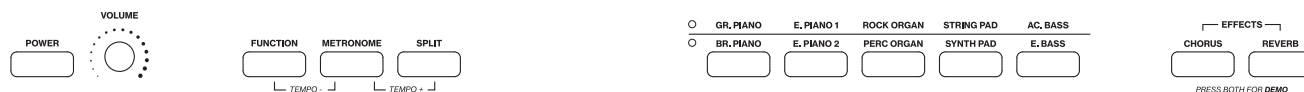
Location

- To avoid deformation, discoloration, or more serious damage, do not expose the instrument to the To avoid deformation, discoloration, or more serious damage, do not expose the instrument to the following conditions: Direct sunlight, high temperatures, excessive humidity, excessive dust, strong vibration.
- Leave enough space around the piano for proper ventilation.
- This instrument contains digital circuitry and may cause or be susceptible to interference if placed too close to radio, television receivers, or mobile phones. If interference occurs, move the instrument further away from the affected equipment.
- Avoid placing vinyl objects on top of the instrument, vinyl can stick to and discolor the surface.

Power

- Turn the power off when the instrument is not in use.
- To avoid damage to the instrument and other devices to which it is connected, turn the power of all related devices off prior to connection or disconnection of MIDI cables.
- Turn the power off if the main cable is damaged, or the instrument has been exposed to liquid.
- Do not switch the unit on and off in quick succession, as this places an undue load on the electronic components.
- Unplug the AC power adapter during an electrical storm.
- Avoid plugging the AC power adapter into the same AC outlet as appliances with high power consumption, such as electric heaters or ovens.

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TOP PANEL

VOLUME

POWER FUNCTION METRONOME SPLIT

TEMPO -   TEMPO +

GR. PIANO   E. PIANO 1   ROCK ORGAN   STRING PAD   AC. BASS
BR. PIANO   E. PIANO 2   PERC ORGAN   SYNTH PAD   E. BASS

EFFECTS
CHORUS   REVERB

PRESS BOTH FOR DEMO

Power On/Off

Turns the piano on and off. The LED light in the button will stay on when the piano is on.

Volume Knob

Controls the overall output volume of the piano.

Function

Controls advanced functions. (See page 9)

Metronome

Plays a metronome click track with selectable tempo.

Split

The Split function divides the keyboard into two zones with different voices.

Tempo -/+

Increases or decreases the tempo of the metronome.

Voice Select Buttons

Piano, Electric Piano, Organ, Strings, Synth, and Bass.

Variation LED

This shows which sound variation is selected. There are two rows of sound names, top and bottom. Pressing the voice select button repeatedly alternates between the first and second rows.

Chorus Button

Turns on and off the Chorus effect assigned to the voice.
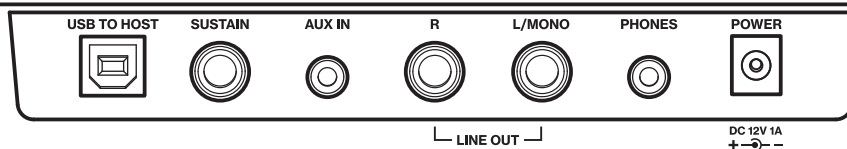
Reverb Button

Turns on and off the Reverb effect assigned to the voice.

Demo

Press CHORUS and REVERB together to play a demo song based on the selected voice. Press a second time to stop playing the demo song.

BACK PANEL

USB TO HOST   SUSTAIN   AUX IN   R   L/MONO   PHONES   POWER

└─ LINE OUT ─┘   DC 12V 1A

USB TO HOST

For computer or mobile device connection, the USB connection supports Class Compliant MIDI and Audio drivers to use with MIDI Sequencer applications.

Sustain Input

The sustain pedal will function in a similar method as an acoustic piano sustain pedal. Using this pedal will allow the piano key sounds to decay slowly. Plug in the included sustain pedal here. The jack will auto-detect the polarity of the sustain pedal when powered on, making it compatible with most sustain pedal brands and models.

AUX In

3.5mm AUX jack to play sound from a connected device through the keyboard speakers.

Outputs

Stereo/ Mono Line Out ¼" Jacks. The output jacks supply a line-level signal for external amplification. Use both jacks for stereo or just the Left jack for mono. The audio level of the Line Out jack is independent of the volume knob and must be adjusted on the external amplification device.

Headphone Jack

The headphone jack disables the speakers when headphones are connected. Use the volume knob to adjust the volume heard through the headphones.

Power Input

Connection for the Included AC power adapter.

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DEMO SONGS

There are 10 demo songs in the Legato LE piano. Each demo song plays in a style to fit the selected sound.

#	Sound	Title
1	Grand Piano	Rhapsody in Blue
2	Tine Piano	Granada
3	Organ Rock	Wichita Edge
4	Strings	Beautiful Dream
5	Aco Bass	Street Stroll
6	Bright Piano	Brown Bear Boogie
7	Reed Piano	What to Ask
8	Organ Jazz	Dirty Blues
9	Synth	Oceans to Cross
10	Elec Bass	Back Beat

The demo songs may be played by selecting a voice and then pressing the REVERB and CHORUS buttons at the same time. The demo song can be changed while playing by selecting another voice.

OPERATIONS

The FUNCTION Button allows you to change parameters for Voices, Voice Volume Level, Split Volume, Split Point and Tuning.

Parameter values are entered using the keyboard, which is scaled so that the keys in the lower octaves provide low values and the keys in the upper octaves provide high values. C7=127 Press and hold data entry functions should activate after 1.5 seconds.

You can also use the free Williams app for iOS to edit these functions on your iPhone or iPad.

Voices

The Legato LE piano has 10 built-in voices. Each voice may be selected by pressing one of the Voice Select buttons on the front panel. Pressing the voice button again will toggle between the top and bottom voice. The button LED and the LED to the left of the voice labels indicate the selected voice. Voices can be layered to produce two voices at once, or assigned to the left or right hands in the split mode.

Voices include: Piano, Electric Piano, Organ, Strings, Synth, and Bass.

Changing the Voice Volume Level

The Voice Volume can be adjusted from the keyboard. You should only want to do this if you are splitting the keyboard, otherwise simply adjust the volume from the knob on the front panel.

1. Select the voice to be edited. Then, while holding the FUNCTION Button, press C#0. (See Appendix on page 13)

2. Continue holding the FUNCTION Button and select the desired volume using the keys on the keyboard. The volume can be changed in 88 note steps from 0-127 where C7=127 and A-1=0. (Higher keys make the voice louder, lower keys make it softer.)

3. Release the FUNCTION button to exit the Voice Volume adjustment mode.

Split Mode

Split Mode allows the keyboard to be divided into two sections so that different voices may be played with the left and right hands. The volume may be independently adjusted for each voice, the Split Point (the highest note played with the left hand) may be adjusted and the Split Voice may be changed as desired.

To Enter Split Mode

Press the SPLIT button to enter Split mode. Press it again to disable Split mode.

The Split (left hand) voice will be Acoustic Bass and the Split Point will be B2.

To Change the Split Volume

1. While holding the FUNCTION button, press D#2 to begin editing the Split Volume Level. (See Appendix on page 13)

2. Continue holding the FUNCTION Button and select the desired volume of the left hand voice using the keys on the keyboard. The volume can be changed in 88 note steps from 0-127 where C7=127 and A-1=0. (Higher keys make the voice louder, lower keys make it softer.)

3. Release the FUNCTION Button to set the left hand voice level.

To Change the Split (Left Hand) Voice

Press and hold the SPLIT button while depressing the desired Voice Select button.

While holding the SPLIT button press the desired Voice Select button.

To Change the Split Point

1. Press and hold the SPLIT button.

2. Press the key that you want to be the top note of the bottom split.

3. Release the SPLIT button.

TUNING

To Change the Tuning of the Piano (Flat or Sharp)

1 While holding the FUNCTION button, press A#-1 to edit Tuning. (See Appendix on page 13)

2. Continue holding the FUNCTION Button. The keyboard will now play middle C piano 1 voice (C3) on every note across the keyboard. Playing middle C (C3) sets for standard tuning, playing keys above and below tune the piano sharp or flat up to a semitone. (See Appendix on page 13)

3. Release the FUNCTION Button to set the tuning.

To Transpose the Keyboard

1. While holding the FUNCTION button, press C#2 to begin Transposing. (See Appendix on page 13)

2. Continue holding the FUNCTION Button and press a key on the keyboard to set the transpose in relation to middle C (C3.) If you would like to transpose up an octave, play C4 an octave above middle C. If you would like to transpose down a fourth, play G2. You can transpose the keyboard up to two octaves up or down.

3. Release the FUNCTION Button to finish transposing.

4. To disable transposition, hold FUNCTION and press C#2 again. The keyboard will play middle C twice to indicate transposition is turned off. Turning the keyboard off and on will also reset transposition.

MENUS & BUTTONS

Reverb and Chorus Buttons

The Reverb and Chorus effects may be applied to each voice individually and will be retained even when the power is turned off.

To apply the effect, press either button. The button will light and the effect will be heard when the piano is played.

To turn off the effect, press the button of the desired effect again and the LED light will go off.

To Modify the Depth of the Effects

1. Press and hold the CHORUS or REVERB button.

2. While this function is active the LED should blink. You can then release the button and press a key on the keyboard corresponding to the setting you want for the reverb depth. It's possible to change the setting by pressing multiple keys after each other until the right setting is found. Keep holding the button until it blinks. Press a key to set the depth, from low (lower keys) to high (higher keys.)

3. Release the button when you're finished changing the depth.

Reverb and Chorus settings are set per Instrument and retained over power cycling.

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Metronome Button

1. Press the METRONOME button to activate the metronome function. You can hear the click in headphones or speakers. When on, the button LED is lit.

2. To set the level of the metronome click, hold the FUNCTION button and press F#0 on the keyboard.

3. You can then select the level by pressing a key on the keyboard. Higher keys make the metronome louder.

4. Press the METRONOME button again to disable the metronome.

Metronome Tempo

Follow these steps to change the speed of the metronome.

1. To change the metronome tempo, turn on the metronome by pressing the METRONOME button.

2. To decrease the tempo, press the FUNCTION and METRONOME buttons at the same time. Repeat until the desired tempo is reached. To increase tempo, simultaneously press the METRONOME and SPLIT buttons at the same time until the desired tempo is reached. The LED will blink to the set tempo.

The tempo defaults to 120 and the tempo setting is retained when powered off.

See the Appendix for a chart of Metronome settings.

Changing the Time Signature

While holding the FUNCTION button, press G#0 to change the time signature of the metronome. for a chart of metronome tempos. Press G#0 additional times to cycle through the time signature options. The default time signature is 4/4 and the following options are also available: 2/4, 3/4, 4/4, 5/4, 6/8, 9/8, 12/8. Release the FUNCTION button to set the time signature for the metronome.

ADVANCED FUNCTIONS

Factory Reset

Performing a Factory Reset will clear all battery backed memory and restore all functions to factory defaults.

1. Turn the Power Off.

2. Hold down the FUNCTION and SPLIT button while powering on the piano. (All LEDs on the device will light)

3. Release the FUNCTION and SPLIT buttons.

Velocity Curves

You can change the way the keyboard responds to your playing by adjusting the Velocity curve settings.

While holding the FUNCTION button, press F#1, G#1 and A#1 to select between Low, Normal and High velocity curves. When selecting F#1 low, Piano 1 C3 will play at velocity value 30. When G#1 Normal is selected, Piano 1 C3 will play at velocity value 70. When A#1 High is selected, Piano 1 C3 will play at velocity value 127 and the piano will exit Function Mode automatically.

Velocity Curve Table

F#1	Low Velocity
G#1	Normal Velocity
A#1	High Velocity

MIDI

The Musical Instrument Digital Interface (MIDI) is an industry-standard protocol that enables electronic musical instruments such as keyboards, computers, drum machines, etc. to communicate, control and synchronize with each other. MIDI transmissions consist of electronic codes that communicate notes to be played, the instrument, pitch or intensity that notes are to be played with, and the controlling codes such as volume, vibrato, cues and clock signals. MIDI data can be transmitted and received

through the USB jack. The Legato LE has several functions that facilitate its use as a MIDI device or controller.

MIDI Channels

The Legato LE has 16 channels numbered from 1-16. Each of the channels is responsible for a voice. When the instrument receives MIDI information from an external device, the active channel is determined by the control message.

The transmission channels are fixed as follows:

Channel 1 Master voice (keyboard)
Channel 2 Split voice (keyboard)

Local On/Off

Turning the Local On/Off function to "Off" will disconnect the keyboard from the internal sound engine of the piano. The Legato LE may then be used as a MIDI controller to control other MIDI devices or virtual instrument software running on a computer, without playing the sounds on the piano. Additionally, it may be desirable to turn local playing off for other requirements such as when using MIDI sequencing software on your computer.

While holding the FUNCTION button, pressing D#1 allows the user to switch local on or off. When D#1 is first pressed the current setting is confirmed by Piano 1 C3 playing once for on and twice for off. Pressing D#1 again will change the setting playing Piano 1 C3 the amount of times equivalent to the new setting.

Multitimbral Mode

The Legato LE is able to receive MIDI information on up to 16 channels simultaneously. If you plan to use your piano with a multitrack MIDI recording system, you can record up to 16 different parts using the Williams Legato LE voices, each played back individually on different MIDI channels. To ensure your recorded part is played back with the correct voice, make sure to press the voice button first and play your part second.

NOTE: *Because the Legato LE is receiving playback information via MIDI, the currently selected voice on the piano may not correspond to the voice being played back.*

MIDI Channel Modes

While holding the FUNCTION button, pressing A#0 allows you to change the MIDI channel. The main piano sound will play Piano 1 C3 the amount of times equivalent to the current value. So if MIDI channel 5 is selected it will play 5 times. You then press A#0 five times to select channel 10. Piano 1 C3 will play the amount of times equivalent to the current setting, after 2 seconds of inactivity. Once 16 is reached, pressing one more time will select 1.

MIDI Panic Reset

While holding the FUNCTION button, pressing C#1 allows the user to activate Panic, which send out general MIDI reset messages such as all note off, etc. Once Panic reset has been completed, Piano will automatically exit Edit mode.

Auto Power On/Off

While holding the FUNCTION button, pressing F#2 allows the user to switch auto Power On or Off. When F#2 is first pressed, the current setting is confirmed by Piano 1 C3 playing once for On and twice for Off. Pressing F#2 again will change the setting playing Piano 1 C3 the amount of times equivalent to the new setting.

NOTE: *If this function is switched on, the unit will automatically power off after 30 minutes if there is no operation, unless the demo is playing.*

Memory Autosave

When modifying the settings of the Williams Legato LE the following settings will be saved after you turn off the keyboard — Reverb, Chorus (for each voice), Main Volume, Layer Volume, Split Volume, MIDI Channel, Velocity Curve, Split point and Auto Power On/Off.

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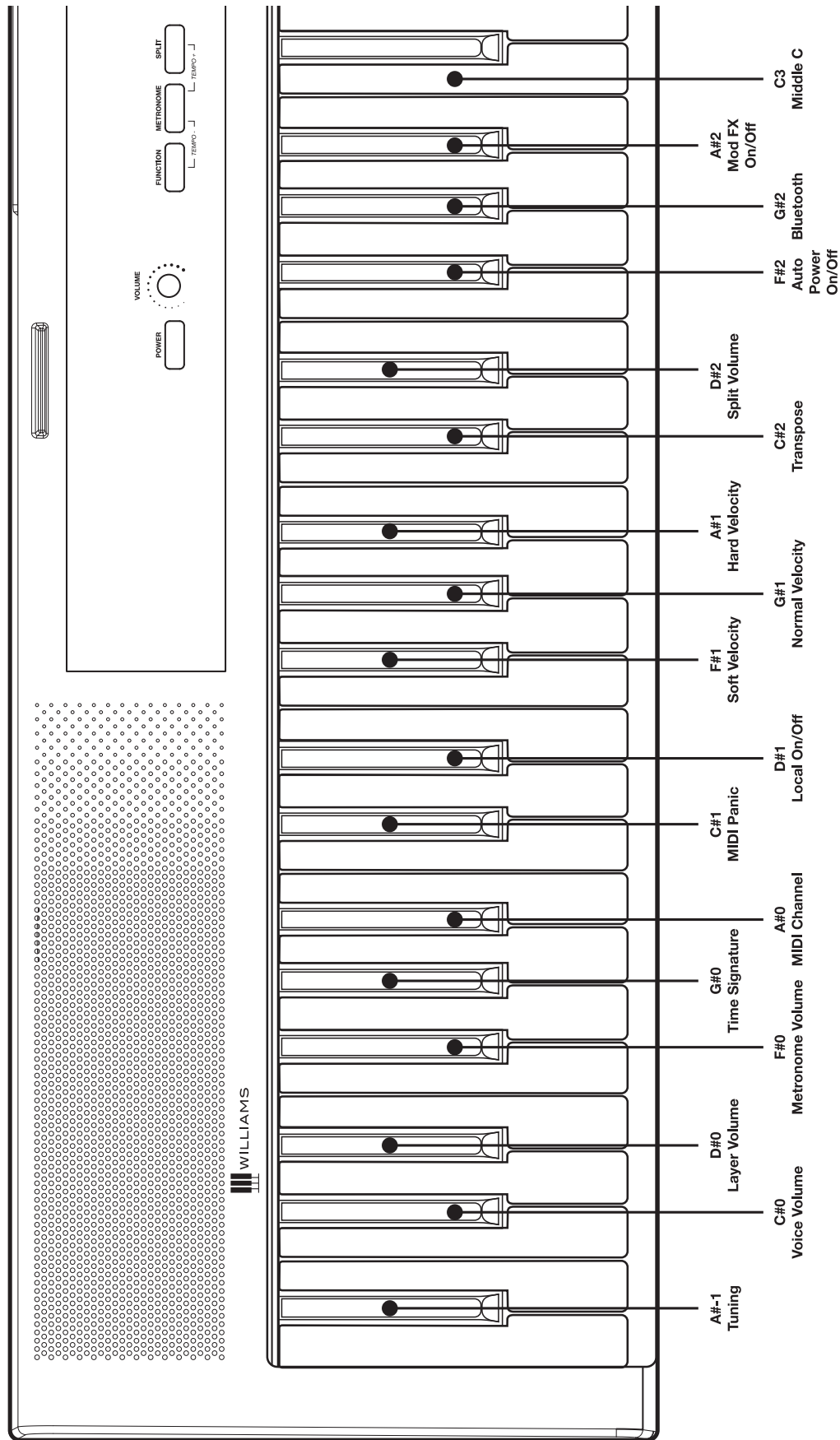# SPECIFICATIONS

Value

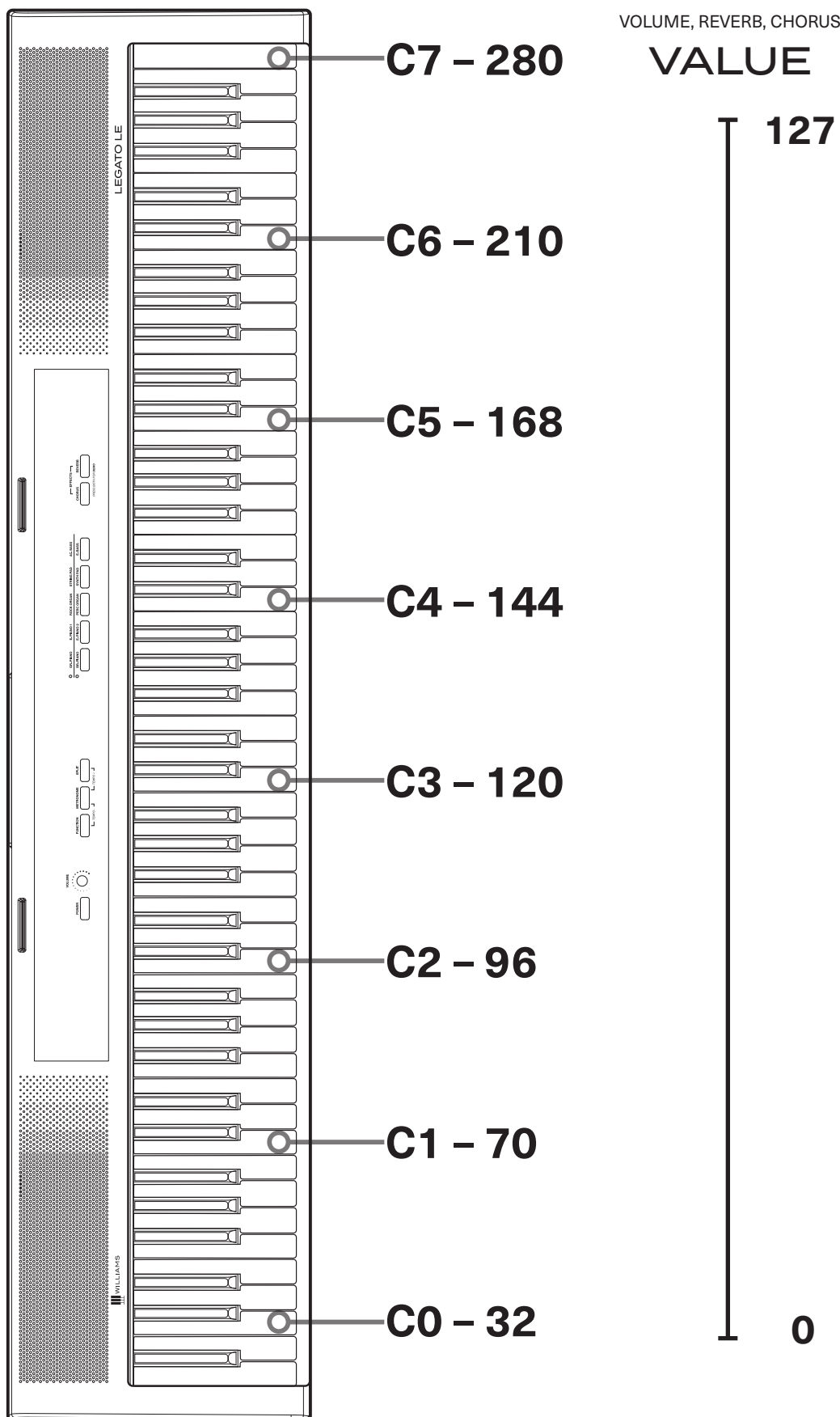|	
Keyboard	88 velocity-sensitive keys
Voices	10
Polyphony	32
Voice Control	Split, Metronome
Demo Songs	10
MIDI Transmit Settings	Local control
Connectors	USB, Sustain Pedal, 1/4" Line Out (L/R), Phones
Speakers	10W @ 4 ohmΩ
Dimensions	50" x 14.76" x 3.54" (1270 mm x 375 mm x 90 mm)
Weight	13 lbs (5.9 kg)
Supplied	Owner's Manual, Music Rest, Power Supply, and Sustain Pedal

APPENDIX / KEYBOARD SHORTCUTS

FUNCTION MODE:

To enter Advance Function Mode, press METRONOME and TEMPO buttons simultaneously. The keyboard does not play a sound at this point but is used for menu selection as per the information below.

To accept a menu setting, press the METRONOME and TEMPO buttons simultaneously again. This will exit the Edit menu and then you will have to re-enter the Edit menu to make changes to other settings.

Keyboard shortcut labels:

- A#-1 — Tuning
- C#0 — Voice Volume
- D#0 — Layer Volume
- F#0 — Metronome Volume
- G#0 — Time Signature
- A#0 — MIDI Channel
- C#1 — MIDI Panic
- D#1 — Local On/Off
- F#1 — Soft Velocity
- G#1 — Normal Velocity
- A#1 — Hard Velocity
- C#2 — Transpose
- D#2 — Split Volume
- F#2 — Auto Power On/Off
- G#2 — Bluetooth
- A#2 — Mod FX On/Off
- C3 — Middle C

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TEMPO MAP
PARAMETER VALUES
BY KEY RANGE

C7 – 280

C6 – 210

C5 – 168

C4 – 144

C3 – 120

C2 – 96

C1 – 70

C0 – 32

VOLUME, REVERB, CHORUS
VALUE

127

0

WARRANTY

The foregoing repair or replacement obligation for defective products shall be the sole and exclusive remedy of this limited warranty. All warranties including, but not limited to, the express warranty and the implied warranties of merchantability and fitness for a particular purpose are limited to the one (1) year warranty period. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you. There are no express warranties beyond those stated here. In the event that applicable law does not allow the limitation of the duration of the implied warranties to the warranty period, then the duration of the implied warranties shall be limited to as long as is provided by applicable law. No warranties apply after that period. Retailer and manufacturer shall not be liable for damages based upon inconvenience, loss of use of product, loss of time, interrupted operation or commercial loss or any other incidental or consequential damages including but not limited to lost profits, downtime, goodwill, damage to or replacement of equipment and/or property.

1-Year Parts & Labor Warranty

Visit us online at www.*williamspianos.com*

Williams® provides the following limited warranty, to the original purchaser: this piano is warranted to be free from electronic and/or structural defects in materials and workmanship for a period of one (1) year from the date of original purchase. If this Williams piano is defective, at its option during the warranty period, subject to the terms of this limited warranty and upon proof of purchase, Williams will either repair or replace the listed piano with a same or similar model of equal age or newer. Any repairs or modifications must be completed by Williams and/or an authorized agent of Williams. The warranty obligations as set forth herein shall be performed free of charge with the exception of all delivery and shipping expenses. This limited warranty will not apply to this product in the case of misuse, abuse, neglect, alterations, normal wear and tear or other circumstance not directly attributed to electronic and/or structural defects in materials or workmanship. Without limiting the foregoing, this limited warranty will also be inapplicable to products that have not been maintained or replaced in accordance with the manufacturer's instruction, or to products from which the serial number has been removed or altered. If covered defects are found, contact your authorized Williams dealer with regard to the alleged defect within ten (10) days of discovery of the problem.

MISSING —OR— DAMAGED PARTS?

HAVE QUESTIONS?
CALL
888-241-1582
TOLL FREE

—HAVE— ASSEMBLY QUESTIONS?

OR VISIT OUR WEBSITE AT: WILLIAMSPIANOS.COM

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