

YAMAHA Electone®

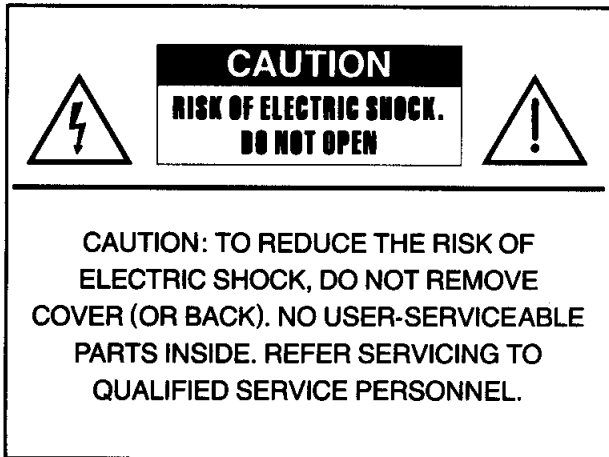
EL-3

OWNER'S MANUAL

SPECIAL MESSAGE SECTION

PRODUCT SAFETY MARKINGS: Yamaha electronic products may have either labels similar to the graphics shown below or molded/stamped facsimiles of these graphics on the enclosure. The explanation of these graphics appears on this page. Please observe all cautions indicated on this page and those indicated in the safety instruction section.

ENVIRONMENTAL ISSUES: Yamaha strives to produce products that are both user safe and environmentally friendly. We sincerely believe that our products and the production methods used to produce them, meet these goals. In keeping with both the letter and the spirit of the law, we want you to be aware of the following:



See bottom of keyboard enclosure for graphic symbol markings.

Battery Notice: This product MAY contain a small non-rechargeable battery which (if applicable) is soldered in place. The average life span of this type of battery is approximately five years. When replacement becomes necessary, contact a qualified service representative to perform the replacement.

Warning: Do not attempt to recharge, disassemble, or incinerate this type of battery. Keep all batteries away from children. Dispose of used batteries promptly and as regulated by applicable laws. Note: In some areas, the servicer is required by law to return the defective parts. However, you do have the option of having the servicer dispose of these parts for you.

Disposal Notice: Should this product become damaged beyond repair, or for some reason its useful life is considered to be at an end, please observe all local, state, and federal regulations that relate to the disposal of products that contain lead, batteries, plastics, etc.

NOTICE: Service charges incurred due to lack of knowledge relating to how a function or effect works (when the unit is operating as designed) are not covered by the manufacturer's warranty, and are therefore the owners responsibility. Please study this manual carefully and consult your dealer before requesting service.

NAME PLATE LOCATION: The graphic below indicates the location of the name plate. The model number, serial number, power requirements, etc., are located on this plate. You should record the model number, serial number, and the date of purchase in the spaces provided below and retain this manual as a permanent record of your purchase.



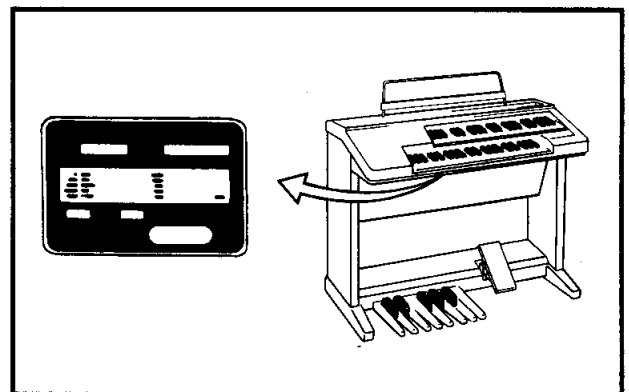
The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.



The lightning flash with arrowhead symbol within the 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 electrical shock.

IMPORTANT NOTICE: All Yamaha electronic products are tested and approved by an independent safety testing laboratory in order that you may be sure that when it is properly installed and used in its normal and customary manner, all foreseeable risks have been eliminated. DO NOT modify this unit or commission others to do so unless specifically authorized by Yamaha. Product performance and/or safety standards may be diminished. Claims filed under the expressed warranty may be denied if the unit is/has been modified. Implied warranties may also be affected.

SPECIFICATIONS SUBJECT TO CHANGE: The information contained in this manual is believed to be correct at the time of printing. However, Yamaha reserves the right to change or modify any of the specifications without notice or obligation to update existing units.



Model _____

Serial No. _____

Purchase Date _____

IMPORTANT SAFETY INSTRUCTIONS

INFORMATION RELATING TO PERSONAL INJURY, ELECTRICAL SHOCK, AND FIRE HAZARD POSSIBILITIES HAS BEEN INCLUDED IN THIS LIST.

WARNING—When using any electrical or electronic product, basic precautions should always be followed. These precautions include, but are not limited to, the following:

- 1.** Read all Safety Instructions, Installation Instructions, Special Message Section items, and any Assembly Instructions found in this manual **BEFORE** making any connections, including connection to the main supply.
- 2.** Main Power Supply Verification: Yamaha products are manufactured specifically for the supply voltage in the area where they are to be sold. If you should move, or if any doubt exists about the supply voltage in your area, please contact your dealer for supply voltage verification and (if applicable) instructions. The required supply voltage is printed on the name plate. For name plate location, please refer to the graphic found in the Special Message Section of this manual.
- 3.** This product may be equipped with a polarized plug (one blade wider than the other). If you are unable to insert the plug into the outlet, turn the plug over and try again. If the problem persists, contact an electrician to have the obsolete outlet replaced. Do **NOT** defeat the safety purpose of the plug.
- 4.** Some electronic products utilize external power supplies or adapters. **DO NOT** connect this type of product to any power supply or adapter other than one described in the owners manual, on the name plate, or specifically recommended by Yamaha.
- 5. WARNING:** Do not place this product or any other objects on the power cord or place it in a position where anyone could walk on, trip over, or roll anything over power or connecting cords of any kind. The use of an extension cord is not recommended! If you must use an extension cord, the minimum wire size for a 25' cord (or less) is 18 AWG. **NOTE:** The smaller the AWG number, the larger the current handling capacity. For longer extension cords, consult a local electrician.
- 6.** Ventilation: Electronic products, unless specifically designed for enclosed installations, should be placed in locations that do not interfere with proper ventilation. If instructions for enclosed installations are not provided, it must be assumed that unobstructed ventilation is required.
- 7.** Temperature considerations: Electronic products should be installed in locations that do not significantly contribute to their operating temperature. Placement of this product close to heat sources such as; radiators, heat registers and other devices that produce heat should be avoided.
- 8.** This product was **NOT** designed for use in wet/damp locations and should not be used near water or exposed to rain. Examples of wet/damp locations are; near a swimming pool, spa, tub, sink, or wet basement.
- 9.** This product should be used only with the components supplied or; a cart, rack, or stand that is recommended by the manufacturer. If a cart, rack, or stand is used, please observe all safety markings and instructions that accompany the accessory product.
- 10.** The power supply cord (plug) should be disconnected from the outlet when electronic products are to be left unused for extended periods of time. Cords should also be disconnected when there is a high probability of lightning and/or electrical storm activity.
- 11.** Care should be taken that objects do not fall and liquids are not spilled into the enclosure through any openings that may exist.
- 12.** Electrical/electronic products should be serviced by a qualified service person when:
 - a. The power supply cord has been damaged; or
 - b. Objects have fallen, been inserted, or liquids have been spilled into the enclosure through openings; or
 - c. The product has been exposed to rain; or
 - d. The product does not operate, exhibits a marked change in performance; or
 - e. The product has been dropped, or the enclosure of the product has been damaged.
- 13.** Do not attempt to service this product beyond that described in the user-maintenance instructions. All other servicing should be referred to qualified service personnel.
- 14.** This product, either alone or in combination with an amplifier and headphones or speaker/s, 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. **IMPORTANT:** The louder the sound, the shorter the time period before damage occurs.
- 15.** Some Yamaha products may have benches and/or accessory mounting fixtures that are either supplied as a part of the product or as optional accessories. Some of these items are designed to be dealer assembled or installed. Please make sure that benches are stable and any optional fixtures (where applicable) are well secured **BEFORE** using. Benches supplied by Yamaha are designed for seating only. No other uses are recommended.

PLEASE KEEP THIS MANUAL

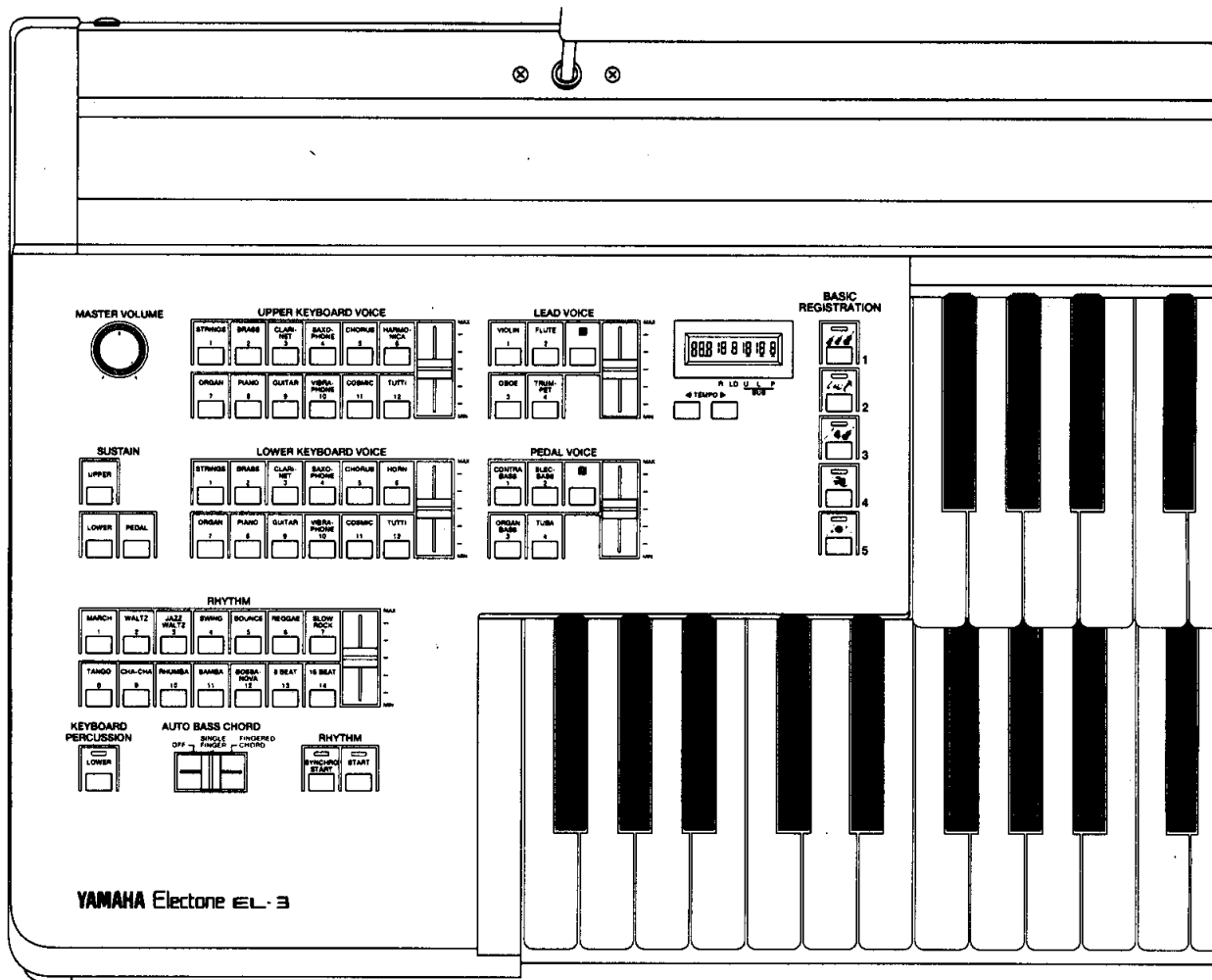
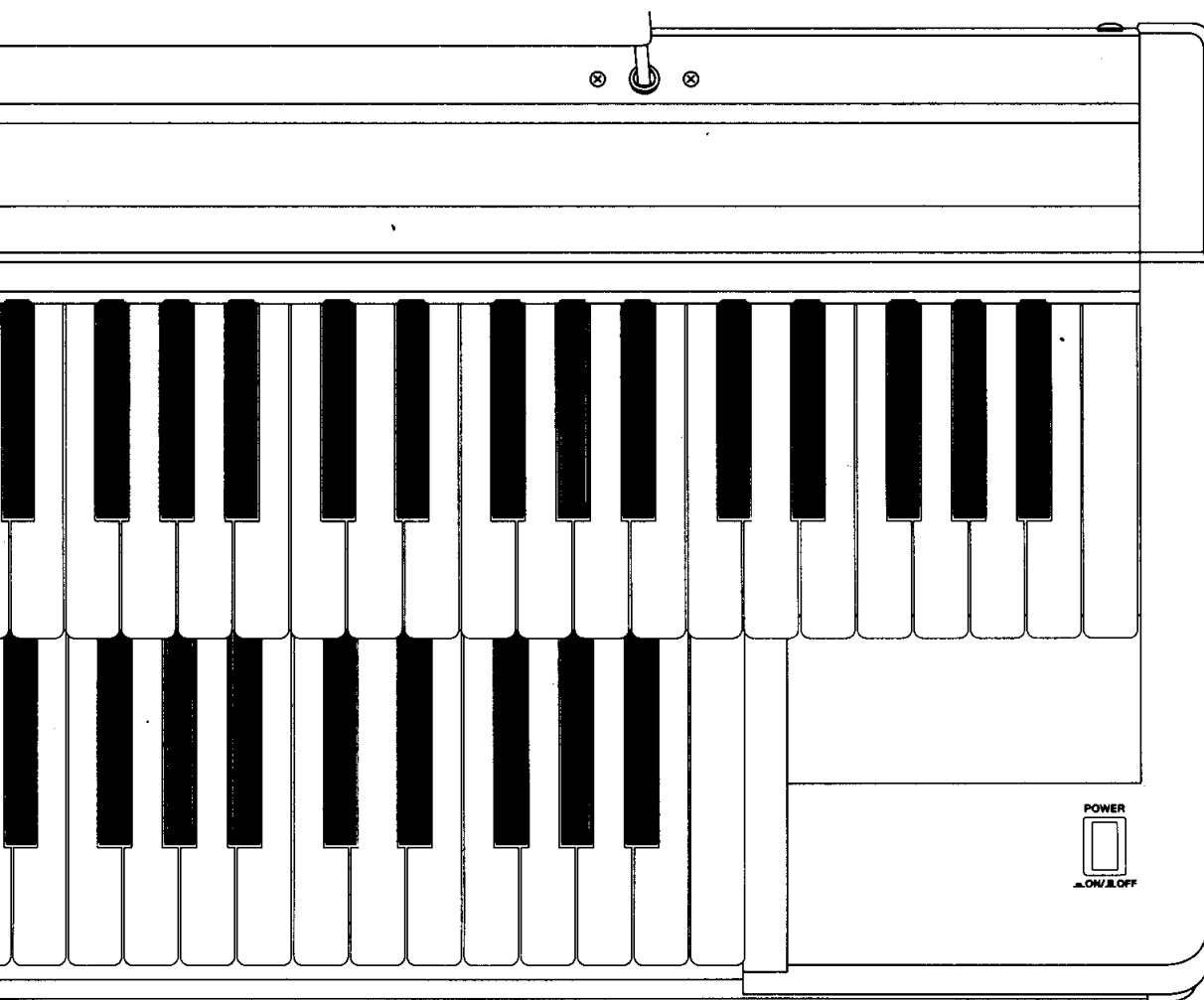


Table of Contents

Main Features	1
1 Getting Started	2
Playing Your Electone	3
Basic Registrations	3
2 Voice Sections	5
Selecting Voices from the Panel	5
Selecting Additional Voices — Dotted Buttons	6
Sustain	7
3 Rhythm, Accompaniment and Percussion	8
Rhythm Patterns	8
Automatic Accompaniment — Auto Bass Chord	9
About the Auto Bass Chord Modes	10
Keyboard Percussion	11
Percussion Assignments for the Lower Keyboard ...	11
Specifications	12



Main Features

Your Yamaha Electone is packed with many sophisticated functions. Yet it is amazingly easy to use. The main features are described here so that you can quickly understand the capabilities of your Electone.

Included among the main features are:

Astoundingly True-to-life Sounds

The new AWM (Advanced Wave Memory) tone generation system provides authentic, dynamic voices, making the Electone a truly expressive musical instrument.

Dynamic Rhythm Patterns

The Rhythm section of the Electone features authentic drum and percussion sounds, used by expert rhythm programmers in creating a total of 14 rhythm patterns, ranging across all styles of music. (See page 8.) A Keyboard Percussion function is also provided for playing the realistic percussion sounds from the Lower keyboard. (See page 11.)

Comprehensive Automatic Accompaniment

The Electone is also equipped with two convenient automatic accompaniment functions, Auto Bass Chord and Accompaniment. Together, they provide entertaining and inspiring instrumental backing and embellishment for your performance. (See pages 9-10.)

Basic Registration Settings

Your Electone also has convenient Basic Registration settings that allow you to instantly change all settings for the entire instrument in real time, as you play. (See page 3.)

1 Getting Started

Once you've set up your Electone and plugged the power cord into an electrical outlet, you're ready to get started and play.

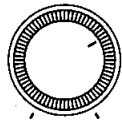
1. Turn on the Electone by pressing the **POWER** switch.



2. Set the **MASTER VOLUME** control.

The **MASTER VOLUME** control is an overall control which affects the volume of the entire instrument.

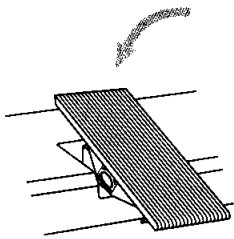
MASTER VOLUME



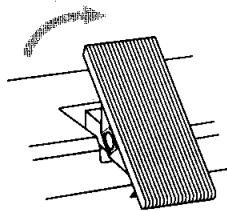
Set the control to roughly this position. This is the normal playing level.

3. Press the **Expression pedal** down with your foot.

The Expression pedal also controls the entire volume of the Electone. Once you have set the **MASTER VOLUME** control to a suitable level, you can use the Expression pedal to change the volume with your foot as you play.



Maximum volume



Minimum volume

For now, press the pedal down slightly beyond the halfway point.

HEADPHONES:

If you wish, you can use a stereo or monaural headphone set to listen to your Electone.

Simply connect the headphones to the **HEADPHONES** jack on the left underside of the Electone keyboard.



HEADPHONES

When headphones are connected to this jack, sound to the Electone's built-in speaker system is automatically cut off, allowing you to play without disturbing others.

Playing Your Electone

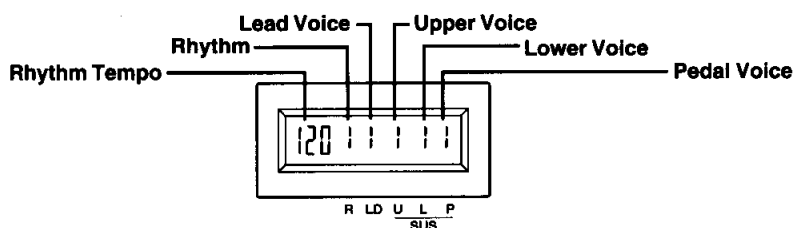
Your new Electone is equipped with an wide variety of voices, rhythms, and other convenient functions. As a performance aid, the Electone includes convenient Basic Registrations that let you completely and instantly change the voices and other settings for all of the keyboards, even as you play. Each registration is pre-programmed to be used for a specific music style or instrumental combination.

Basic Registrations

The Basic Registration section has five factory preset registrations, each with a different set of voices for the Upper/Lower keyboards and Pedalboard and each specially suited for playing in a different music style.

When you turn the power on, the Electone automatically selects Basic Registration 1. If another registration has been selected (the lamp on the button will be lit), press the button for Basic Registration 1.

Note that when you select a Basic Registration, the lamp of the selected button lights and the voice numbers of that registration are shown in the display.



BASIC REGISTRATION



The volume settings for each voice are pre-programmed for each Basic Registration and cancel the current panel volume settings. (For more information, see "ABOUT VOICE VOLUME SETTINGS," page 6. Also refer to the note on this page.)

Try playing the melody line of the following piece of music on the Upper keyboard, using the indicated registration.

Note: Even though a Basic Registration button may be lit, the settings may have changed from the pre-programmed ones — for example, if you have inadvertently moved a VOLUME slider or pressed a voice section button. To restore the original Basic Registration settings, press the lit button once to turn Basic Registration off, then once again to turn it back on.

Basic Registration 1

From the New World A. Dvořák

Now, try out the rest of the Basic Registrations with the following music examples.

Press the appropriate buttons to select the registrations. Each music example has been chosen to best suit its companion registration.

Basic Registration 2

Down by the Riverside Traditional

Basic Registration 3

Emperor Waltz *J. Strauss*

Basic Registration 4

Twinkle, Twinkle Little Star *German Folk Song*

Basic Registration 5

Ode to Joy *L. V. Beethoven*

The chart below lists the voices that have been set for the Upper/Lower keyboards and Pedalboard in each of the five Basic Registrations.

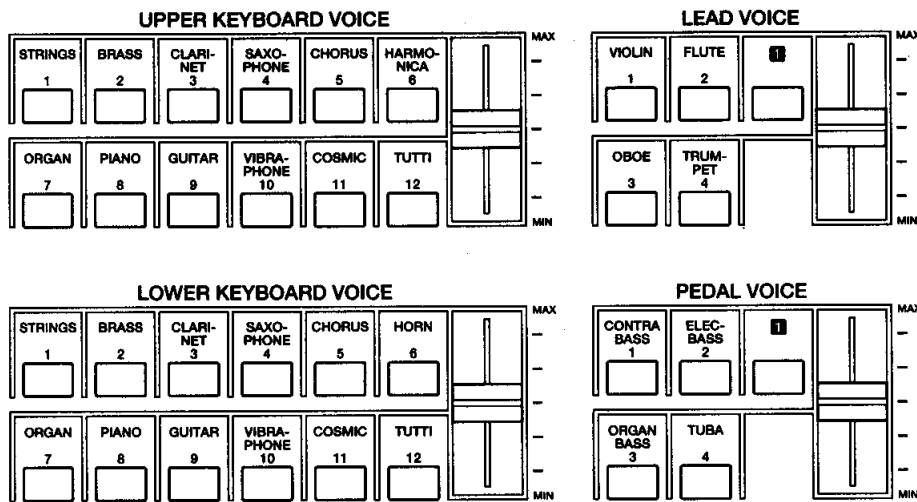
	Basic Registration 1	Basic Registration 2	Basic Registration 3	Basic Registration 4	Basic Registration 5
Upper Keyboard voice	Strings	Brass	Flute	Cosmic (1)	Synth. Brass*
Lower Keyboard voice	Strings	Horn	Piano	Cosmic (2)*	Cosmic (3)*
Pedal voice	Contra Bass	Tuba	Contra Bass	Cosmic (2)*	Synth. Bass*

Note: Voices indicated by asterisks are available only in the Basic Registration section. However, some of them can be stored to dotted buttons for separate selection from the respective voice sections. (Refer to the section, "Selecting Voices From the Dotted Buttons," page 6.)

Note: Turning off the Basic Registration returns the volume values to the ones which are indicated by the VOLUME sliders.

2 Voice Sections

The following illustration shows the various available voice sections.

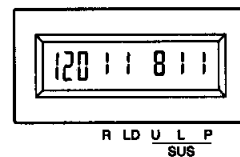
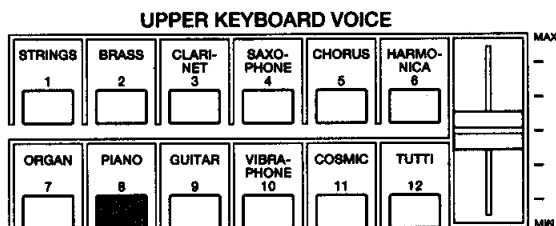


The Electone has four voice sections: Upper Keyboard Voice, Lead Voice, Lower Keyboard Voice, and Pedal Voice. The Lead voices can be played only from the Upper keyboard.

Selecting Voices from the Panel

Since selection of panel voices follows the same procedure throughout the various voice sections, instructions for only the Upper Keyboard Voice section are given here.

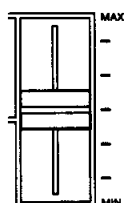
1. Select a voice from the Upper Keyboard Voice section by pressing one of the Voice buttons in that section.



The selected voice number for the Upper keyboard is shown in the display. Try also pressing other voice buttons and see how the numbers in the display change.

2. Set the volume for the voice section.

Use the VOLUME sliders of each voice section on the panel to set the desired level for each voice. The sliders have five volume settings, from a minimum of 0, or no sound, to a maximum of full volume.



ABOUT VOICE VOLUME SETTINGS:

You can adjust the level of each voice section with the VOLUME sliders; however, these settings will be cancelled when you select a Basic Registration (which has pre-programmed volume settings). This means that if a Basic Registration has been selected, the volume settings shown on the panel by the slider positions may not reflect the actual levels of the various voice sections. Thus, the VOLUME slider of a voice section may be at the minimum level (off), and yet the voice can be heard.

To restore panel volume settings, turn off the Basic Registration or reset the VOLUME sliders manually; this returns each volume level to the slider- indicated values.

3. Now select voices for the Lead, Lower keyboard and Pedalboard sections as you did for the Upper keyboard above. Also, set the volumes of the voices.

Follow steps #1 and #2 above, now using the controls of the Lower Keyboard and Pedal Voices.

Note: The Lead Voice and Pedal Voice sounds one note at a time; when you simultaneously press two or more keys, only the highest note will sound.

Selecting Additional Voices — Dotted Buttons

The Electone has some additional voices which you can store to the dotted buttons in the Lead and Pedal voice sections.

Selecting Voices From the Dotted Buttons

The Lead and Pedal Voice sections have dotted buttons, which effectively function as "wild card" voice selectors; any of the Electone's voices can be stored to and then selected from these buttons.

The dotted buttons have two basic uses:

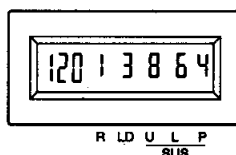
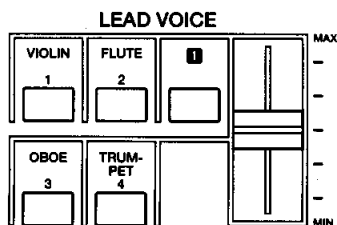
1) For using any voice from one of the voice sections on any other voice section. For example, you can store the Tutti voice, which is only on the Upper Keyboard Voice section, to the dotted button in the Pedal Voice section.

Note: Since the Lead and Pedal Voice sections are monophonic (only one note can be played at a time), any voices stored to the dotted buttons in those sections will also become monophonic.

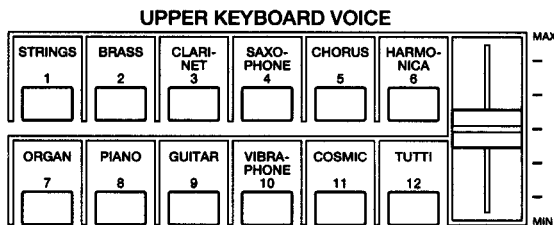
2) For using the alternate Basic Registration voices in any of the voice sections. The Basic Registrations include several extra voices that are not found in the voice sections. Some of them can be called up to the dotted buttons.

To select a voice from a dotted button:

1. Press and hold down one of the dotted buttons in any of the voice sections. The currently assigned voice number will flash in the display. When a voice not found on the panel is selected, a dash will appear in the display and flash.



2. While holding down the dotted button, press the button of the voice you wish to store to that button.



Any of the buttons in the various voice sections (Upper, Lead, Lower and Pedal) can be used. You can also use the Basic Registration buttons for selecting voices.

The following chart lists the available voices that can be called up from Pedal to Lead by pressing the dotted button.

	Location
Pizzicato Bass	Dotted button in the Pedal section (Basic Registration 1-3)
Cosmic 2	Dotted button in the Pedal section (Basic Registration 4)
Synth. Bass	Dotted button in the Pedal section (Basic Registration 5)

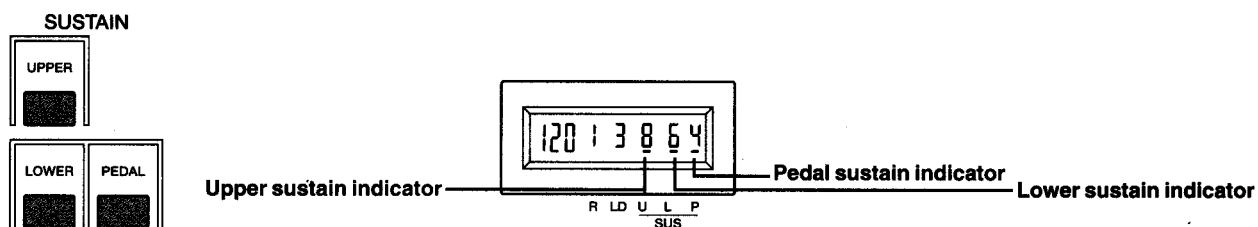
Sustain

Sustain is selectable for the Upper, Lower and Pedal voices and makes the sound gradually fade out when the keys are released. The Sustain on/off settings are independent for each keyboard, providing maximum expressive control.

To add Sustain to the voices:

Press the desired button (UPPER, LOWER or PEDAL) in the SUSTAIN section.

Note: Sustain cannot be applied to the Lead voices.



A line (or cursor mark) appears beneath the voice number of the appropriate voice section to indicate that Sustain is on. Press the same Sustain button again to turn Sustain off.

3 Rhythm, Accompaniment and Percussion

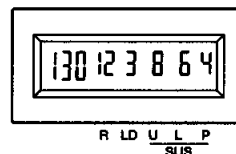
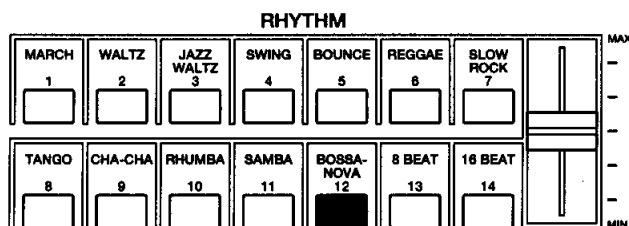
The Rhythm features of the Electone use actual drum and percussion sampled sounds to automatically play various rhythm patterns. Automatic Accompaniment functions are used with the rhythm patterns, providing appropriate and completely automatic accompaniment to match the style of the rhythm pattern selected. Moreover, the Electone has a Keyboard Percussion feature that allows you to play drum and percussion sounds from the Lower keyboard.

Rhythm Patterns

The Electone features 14 different rhythm patterns in various styles that can be instantly selected from the front panel.

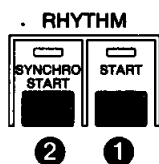
To select and play a rhythm pattern:

1. Choose a rhythm pattern by pressing one of the buttons in the Rhythm section on the panel.



The selected Rhythm number is shown in the display. Try also pressing other Rhythm buttons and see how the numbers in the display change.

2. Turn the rhythm on. You can use one of two buttons to turn on the rhythm:



1 START

This button does as its name indicates; the rhythm begins as soon as the button is pressed. To stop the rhythm, press this button again (or press the SYNCHRO START button).

2 SYNCHRO START

This button puts the rhythm pattern in "stand-by"; the rhythm will start when you press a note on the Lower keyboard or Pedalboard. (The lamp of the button stays lit to indicate the stand-by status.) To stop the rhythm, press this button again (or press the START button).

Note: For Synchro Start operation, the Pedalboard cannot be used to start rhythms in the Fingered chord mode.

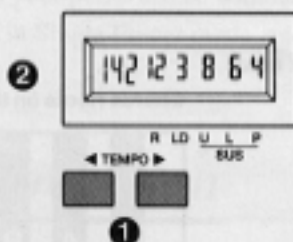
These buttons also have lamps that function as bar/beat indicators. The SYNCHRO START lamp flashes at the start of every bar or measure, while the START button flashes at every beat in the measure.

3. Set the volume.

Use the VOLUME slider to the right of the Rhythm buttons to set the desired level of the rhythm. The slider has five volume settings, from a minimum of 0, or no sound, to a maximum of full volume.

Note: When the Electone is turned on or one of the Basic Registrations is selected, the rhythm volume is automatically set to 0. This means that the slider could be at the maximum position, and yet the rhythm may not sound.

4. Set the tempo.



1 TEMPO Buttons

For adjusting the speed of the rhythm. Press the ► button to increase the tempo, and press the ◀ button to decrease it.

Note: Each rhythm pattern has its own pre-set tempo. Pressing both tempo buttons simultaneously restores this preset tempo if it has been changed.

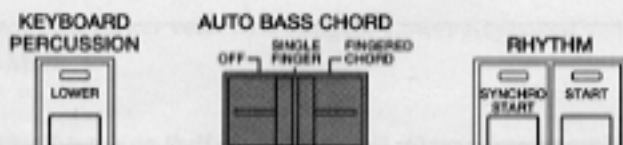
2 TEMPO Display

Shows the current tempo. (Displayed values are given in beats per minute, just as on a conventional metronome.) The tempo range is 40 to 240 beats per minute.

Automatic Accompaniment — Auto Bass Chord

The Auto Bass Chord (A.B.C.) function works with the Rhythm section of the Electone to automatically produce chord and bass accompaniment as you play. Depending on the feature or mode selected, you can play anything from a single note to a full chord on the Lower keyboard and hear complete, rhythmical bass and chord accompaniment.

There are two Auto Bass Chord modes — SINGLE FINGER and FINGERED CHORD — and they are selected from the AUTO BASS CHORD slider.



Note: Selecting one of the Basic Registrations cancels the Auto Bass Chord. Turning off the Basic Regist. button or resetting the A. B. C. slider activates the Auto Bass Chord function again.

To use the A.B.C. function:

1. Select the desired mode with the AUTO BASS CHORD slider. (For the moment, select the FINGERED CHORD mode.)

2. With a rhythm pattern playing, press a chord on the Lower keyboard. (Try the chord shown in the illustration on the right.)

Notice that even after you release your fingers from the keyboard, the chord and accompaniment patterns continue to sound.

Example:



Play a C chord on the keyboard

To turn off the A.B.C. function, move the slider to the OFF position.

Note: In order for the bass pattern of the automatic accompaniment to be heard, the Pedal Voice VOLUME slider must be at a suitable setting.

Accompaniment ON/OFF Status

	LOWER KEYBOARD MEMORY	PEDALBOARD MEMORY	ACCOMPANIMENT
OFF	OFF	OFF	OFF
SINGLE FINGER	ON	ON	ON
FINGERED CHORD	ON	ON	ON

About the Auto Bass Chord Modes

SINGLE FINGER mode

The Single Finger mode provides the fastest and easiest means to obtain many different chord/bass combinations, by simply using one, or at most, two or three fingers to play the chords.

Chords Recognized in the Single Finger Mode (Key of C)

Major, minor, 7th and minor 7th chords can all be played in the Single Finger mode.

Major chords:

Press the root of the chord (the note that corresponds to the chord's name).



Minor chords:

Simultaneously press the root and any one black key to the left of it.



7th chords:

Simultaneously press the root and any one white key to the left of it.

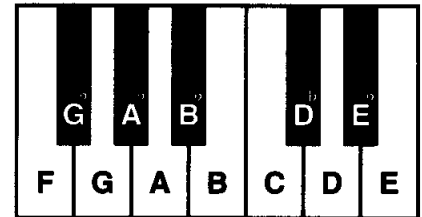


Minor 7th chords:

Simultaneously press the root as well as any black key and any white key to the left of it.



Chords Roots on the Lower Keyboard



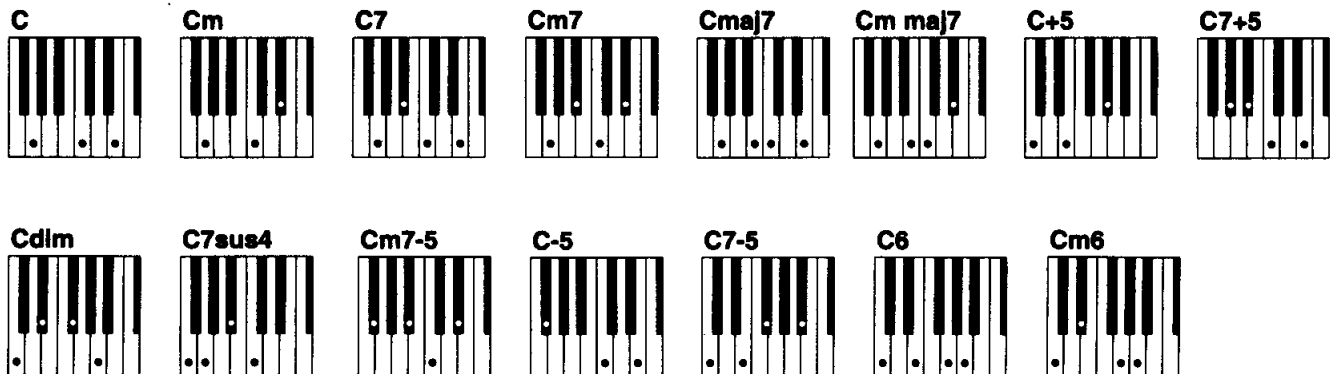
Note: Minor, 7th and minor 7th chords with black key roots (such as Bb or Gb) are played in the same way as those with white key roots.

Note: With Single Finger, the chord produced will sound in the same octave regardless of where it is played on the Lower keyboard.

FINGERED CHORD mode

The Fingered Chord mode automatically produces bass and chord accompaniment for chords played in the Lower keyboard. It allows you to use a wider range of chord types than in the Single Finger mode. In the Fingered Chord mode, you play all the notes of the chord while the Auto Bass Chord function automatically selects the appropriate bass pattern and rhythmic accents.

Chords Recognized in the Fingered Chord Mode (Key of C)



PLAYING SINGLE FINGER CHORDS WITHOUT RHYTHM:

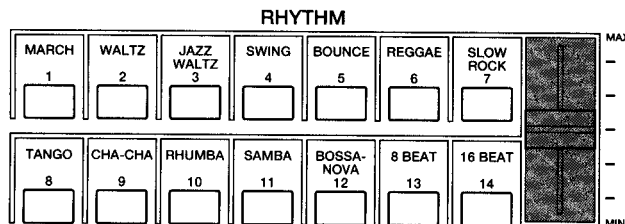
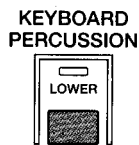
Auto Bass Chord is generally used with rhythm patterns to create full rhythmic accompaniment, but it can also be used in the Single Finger mode to add full continuous chords to your performance without the use of the rhythm. Simply leave the rhythm off in Single Finger mode, and play Single Finger chords from the Lower keyboard.

Note: If you forget to cancel the Single Finger or Fingered Chord accompaniment functions, single notes that you play will be sounded as continuous chords.

Keyboard Percussion

To play the Keyboard Percussion sounds:

1. Turn on the Keyboard Percussion function by pressing the LOWER button in the KEYBOARD PERCUSSION section.



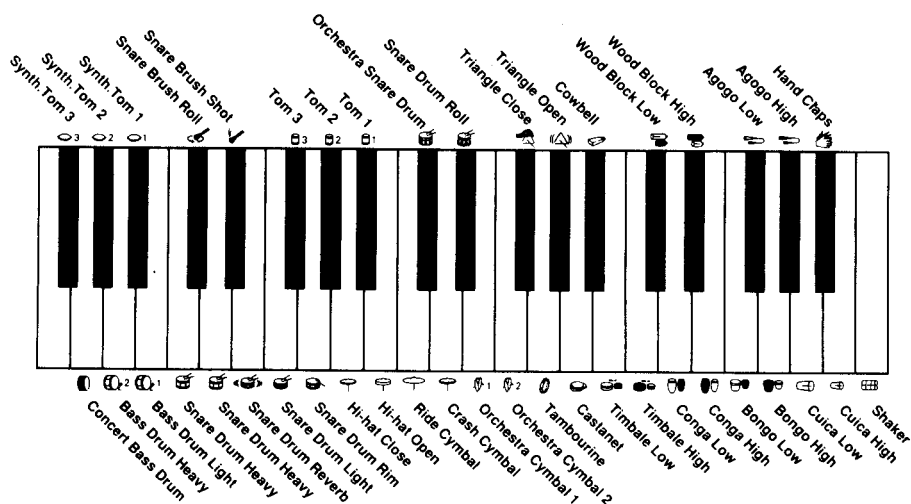
2. Set the volume.

The volume of the percussion sounds is set together with that of the rhythm by using the VOLUME slider in the Rhythm section. Set the volume to the desired level.

3. Turn off the Lower voice by setting the Lower Keyboard Voice section volume to MIN.

4. Play some notes on the Lower keyboard. The various percussion sounds (a total of 42 are available) have been assigned to the keyboards as shown in the charts below.

Percussion Assignments for the Lower Keyboard



Specifications

		EL-3
KEYBOARD		Upper: 44 keys, Lower: 44 keys, Pedal: 13 keys
VOICE	Tone Generation	New AWM
	Upper/Lower	Strings, Brass, Clarinet, Saxophone, Chorus, Organ, Piano, Guitar, Vibraphone, Cosmic, Tutti, [Upper] Harmonica, [Lower] Horn; Volume
	Lead	Violin, Flute, Oboe, Trumpet, (Dotted Button); Volume
	Pedal	ContraBass, Elec.Bass, Organ Bass, Tuba, (Dotted Button); Volume
EFFECT	Sustain	Upper, Lower, Pedal
	Vibrato	Preset
RHYTHM	Rhythms	March, Waltz, Jazz Waltz, Swing, Bounce, Reggae, Slow Rock, Tango, Cha-cha, Rhumba, Samba, Bossanova, 8 Beat, 16 Beat
	Others	Start, Synchro Start, Tempo, Volume
KEYBOARD PERCUSSION		Lower: 42 Sounds
AUTO BASS CHORD (A.B.C.) (with Memory and Accompaniment)		Off, Single Finger, Fingered Chord
BASIC REGISTRATION		1~5
OTHER CONTROLS		Power On/Off, Expression Pedal, Master Volume
OTHER FITTINGS		LCD Display, Headphone Jack, Matching Bench, Music Stand, Dust Cover
OPTIONAL ACCESSORY		YHE-5 Headphones
SOUND SYSTEM	Power Amplifier	15 W
	Speakers	20 cm × 2, 5 cm × 1
DIMENSIONS	Width × Depth × Height	99.8 cm × 39.4 cm × 85.9 cm (39 1/4" × 15 1/2" × 33 7/8")
WEIGHT		29 kg (63 lb., 15 oz.)
FINISH		Simulated Mahogany Grain

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