

GUIDE TO YOUR
YAMAHA *Electone* BK-2



Welcome to the musical world of Yamaha. We at Yamaha appreciate your confidence in Yamaha products, and we will do everything we can to make sure your new purchase, the Yamaha Electone BK-2, provides a lifetime of enjoyment.

Please read this manual thoroughly to be sure you are familiar with every feature, and with all the many ways you can use each one. With proper care and a little time together, you and your Electone can become lifelong partners in musical creativity.

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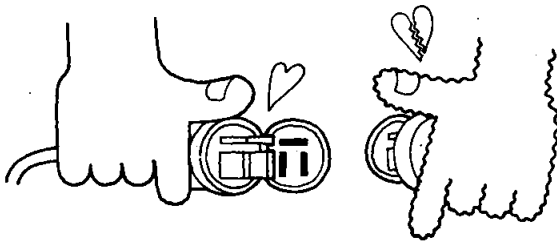
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Read the following before playing

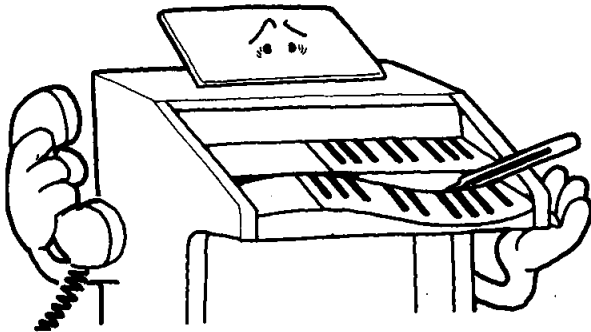
In general, treat your Electone with the same care you would any fine musical instrument. The following points are suggested for optimum enjoyment.

1. Use only proper line voltage. Consult your Yamaha serviceman for changes.

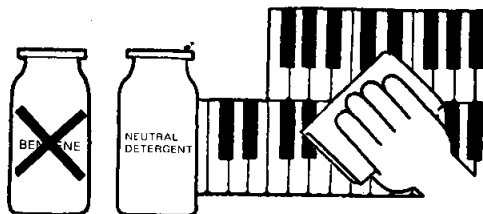
As to British-Standard Model, its information is in 'Specifications' on the last page.



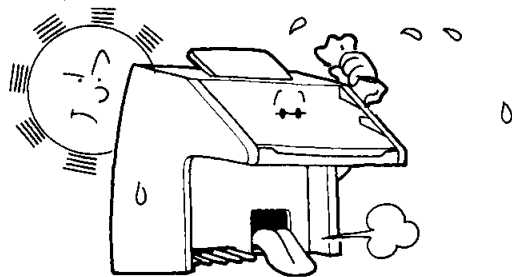
2. Never touch the inside parts yourself.



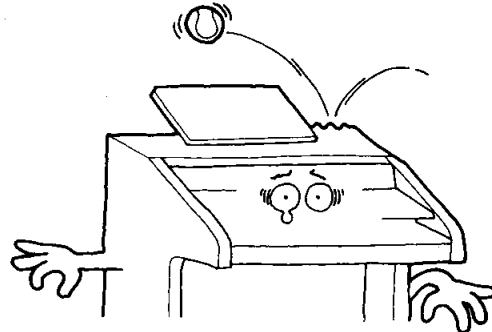
3. Clean keys, etc, with a damp cloth only. Never use solvents such as benzene; they will damage the finish.



4. Shield the cabinet from direct sunlight, humidity and heat to protect the finish and joints.



5. Do not hit or scratch the cabinet with a hard object.



6. Always shut off the power after playing.

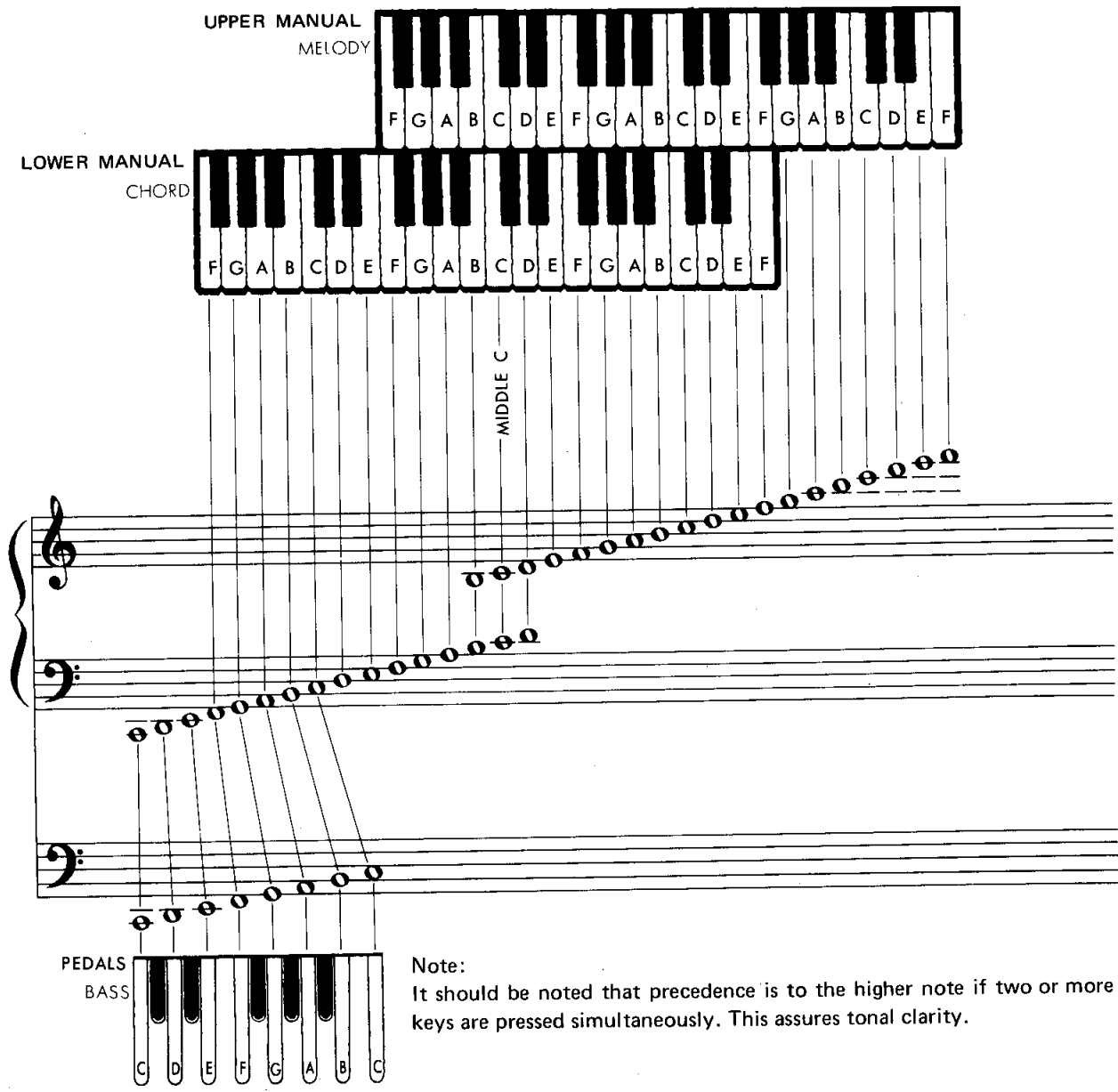
Keyboards

The BK-2 has three keyboards. The upper two are called "manuals" and the lower one, played with the feet, "pedals." They have keys and octaves as follows:

Upper Manual	37 keys (3 octaves)
Lower Manual	37 keys (3 octaves)
Pedals	13 keys (1 octave)

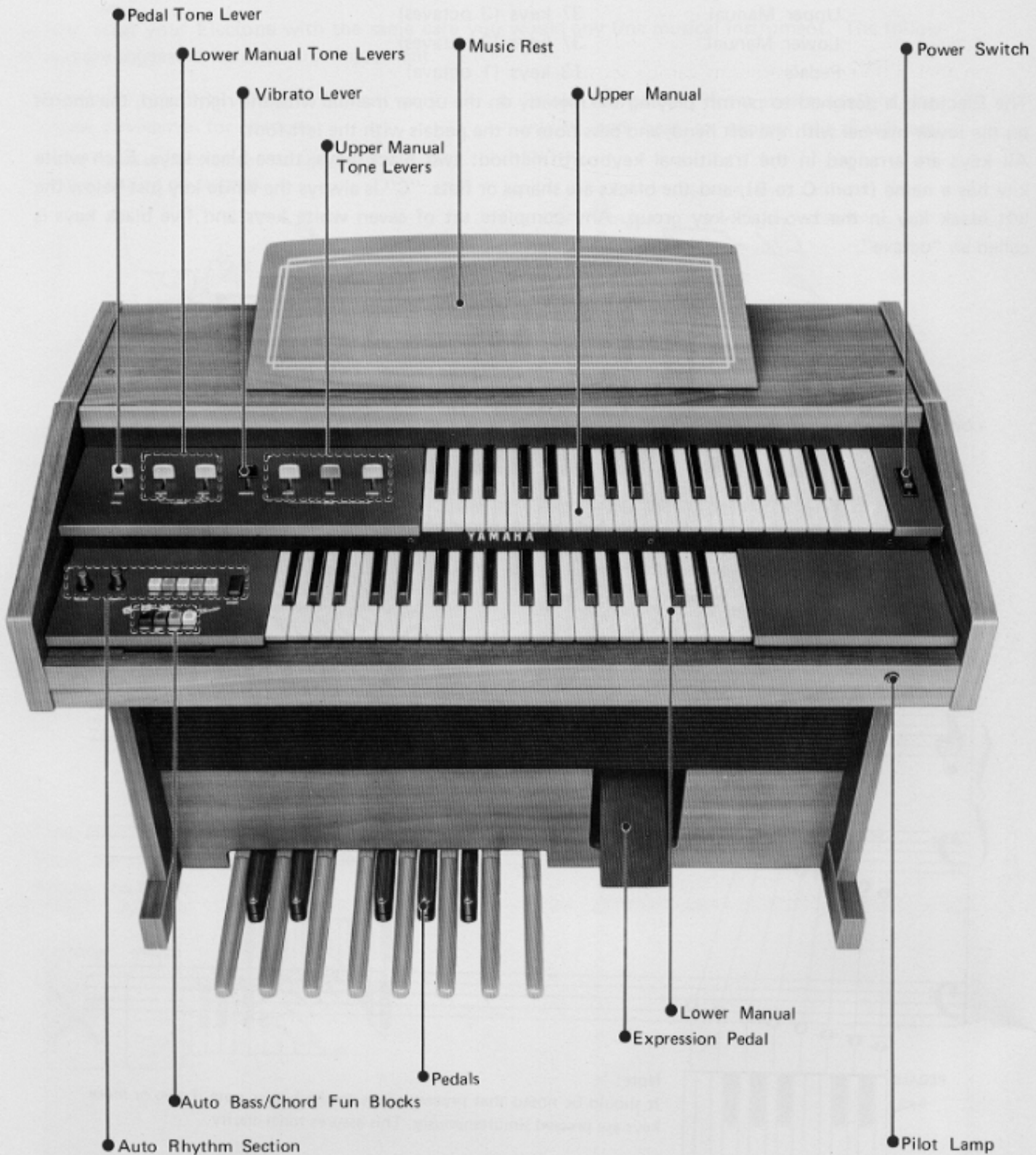
The Electone is designed to permit playing the melody on the upper manual with the right hand, the chords on the lower manual with the left hand, and bass note on the pedals with the left foot.

All keys are arranged in the traditional keyboard method: two black keys, three black keys. Each white key has a name (from C to B), and the blacks are sharps or flats. "C" is always the white key just below the left black key in the two-black-key group. Any complete set of seven white keys and five black keys is called an "octave".



Note:
It should be noted that precedence is to the higher note if two or more keys are pressed simultaneously. This assures tonal clarity.

This is Your Yamaha Electone BK-2



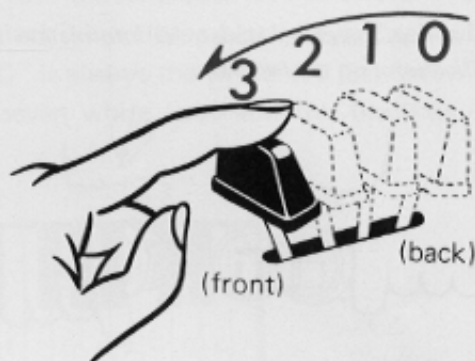
The Tone Levers

To the left of the upper manual is a series of tone levers to control the Electone voices which sound when the keys are depressed. They are divided into groups for upper, lower and pedals, so that different registrations can be set for each.

Upper Manual Levers	3 voices
Lower Manual Levers	2 voices
Pedal Lever	1 voice

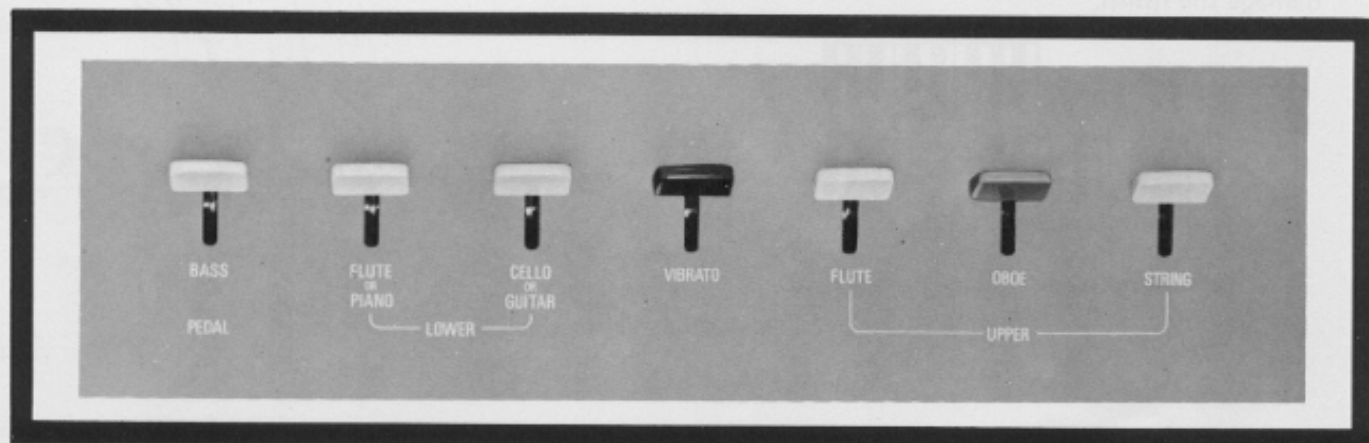
Each lever provides two methods of control. One is by continuously moving the lever from off to full, to achieve the exact setting for that tone, and thus balancing the overall tone setting with perfect precision. Each lever also has two easy-to-feel click stops, at 1/3 and 2/3 positions. This lets you refind any setting with mathematical precision and no guesswork in a matter of seconds.

NOTE: When the Auto Bass/Chord section is used, the tone color of the lower manual voices will change from Flute to Piano, and from Cello to Guitar.

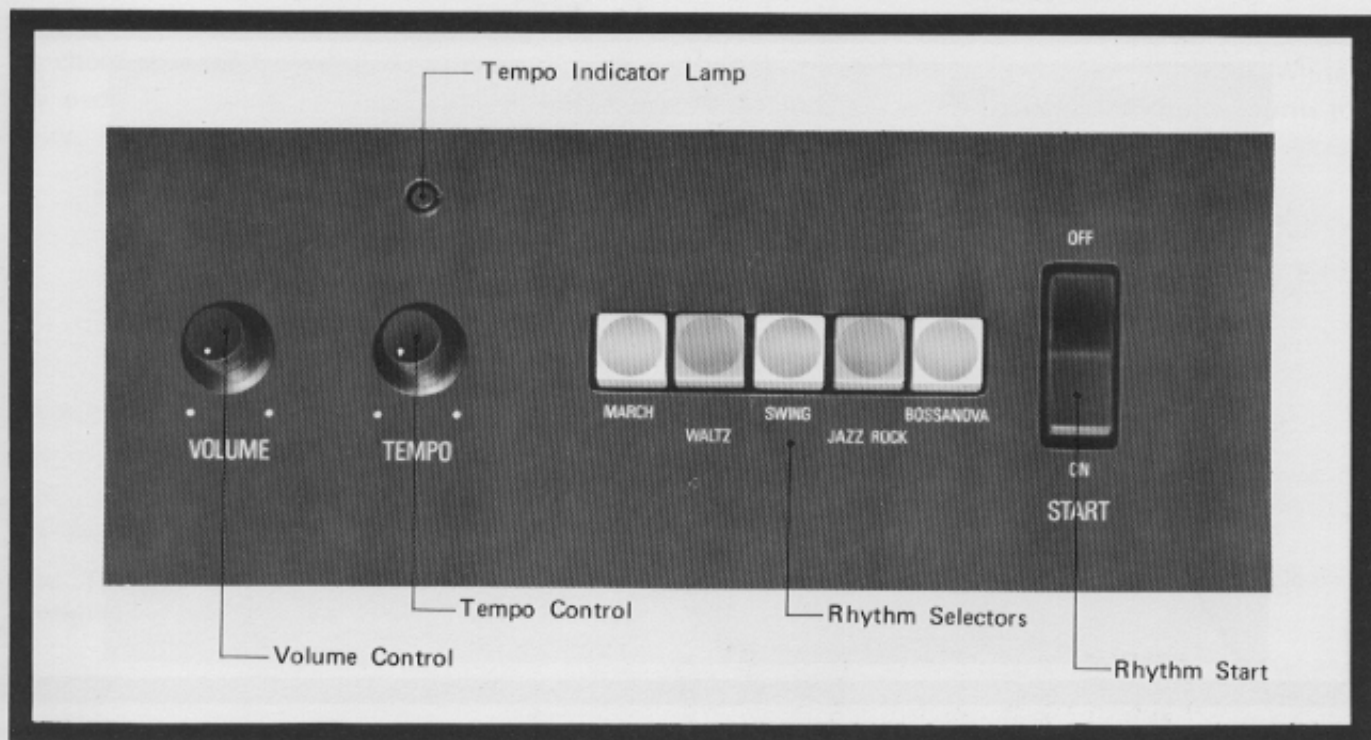


Vibrato

Vibrato is a waving of the tone. You will see violin and cello players use it freely by an oscillating motion of the left hand. It increases the emotional quality of the violin tone. This vibrato lever produces the same vibrato effect.

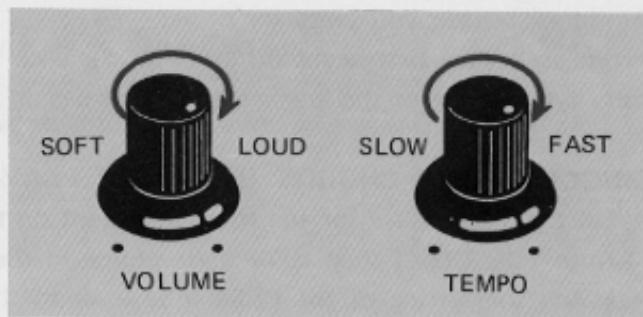


Auto Rhythm Section

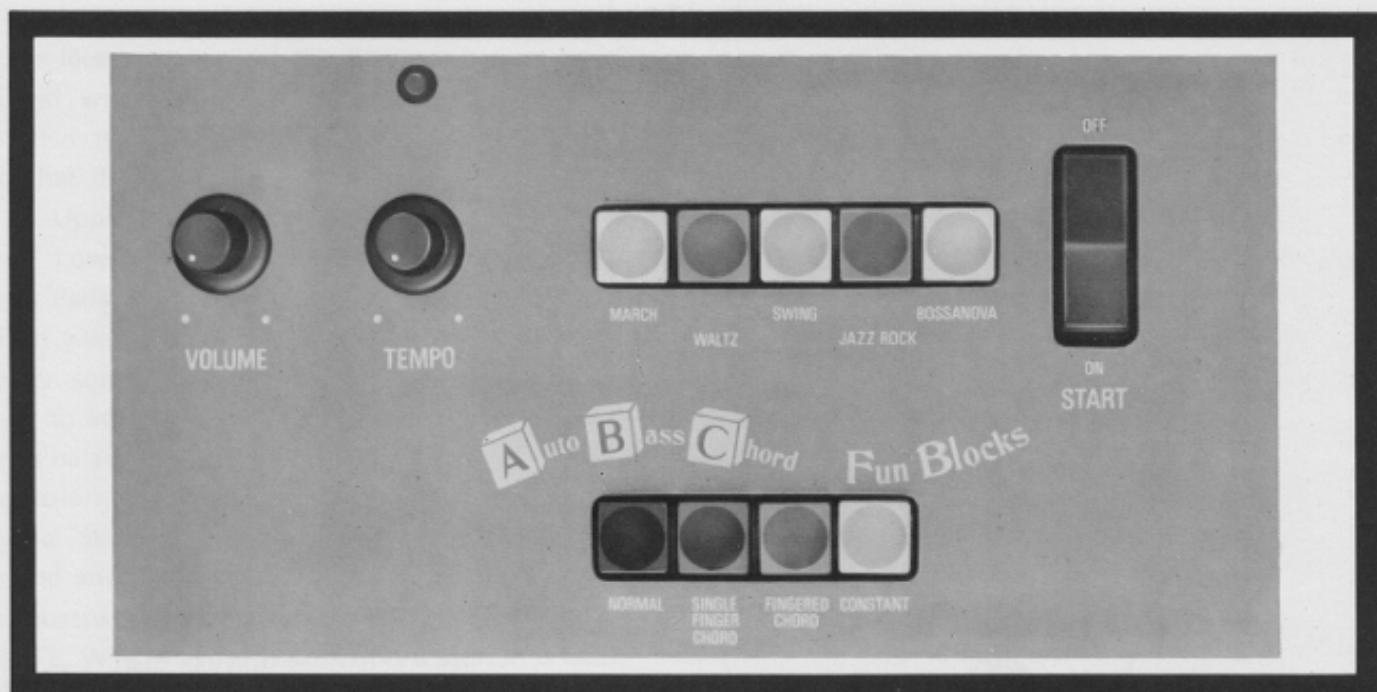


This section has 5 different rhythm accompaniments, each with its own selector button. There are also rhythm Volume and Tempo controls, a tempo indicator lamp and a start switch.

To use the rhythm section, first push the desired selector button (or buttons – you can combine rhythms). Then turn the Start button on. The rhythm will begin and you can adjust the tempo and volume.



Auto Bass/Chord Fun Blocks

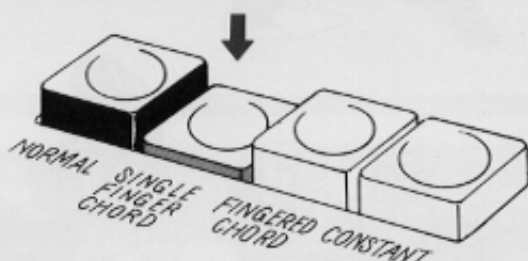


The BK-2 is equipped with a "Fun Block" section of four buttons which can be used in conjunction with the Auto Rhythm section (see p. 5). It enables you to play a variety of alternating bass chord rhythms, simply by holding down either a single lower manual key or a lower manual chord, according to which fun block button you press.

From your very first keyboard attempt, the auto bass chord feature will let you sound like a pro, making full rhythmic use of the lower manual and pedals. Here is how it works.

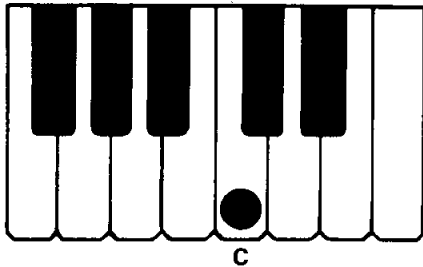
SINGLE FINGER CHORDS (THE EASY PLAY WAY)

- Set the tone levers for the tones you want on the lower manual; use either or both levers to adjust the Auto Bass Chord tone color and volume in the normal way.
- Match the setting of the Pedal tone lever to the lower manual tones.
- Select a rhythm pattern and push the corresponding button down until it clicks and stays down.
- Set the Rhythm Start switch on.
- Adjust the rhythm tempo and volume.
- Press the Single Finger Chord button.



Now, if you press a C key on the lower manual, a C major chord will play in an alternating pattern which matches the rhythm pattern and tempo set.

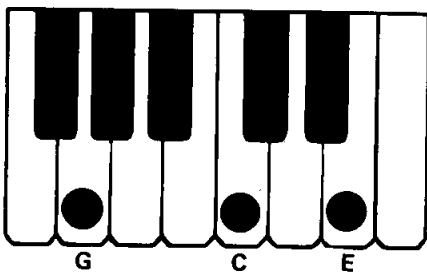
As long as the key is held down, the bass chord rhythm continues. When the Black-key pedal is pressed, the chord changed from major to minor, and when released, the chord returns to major. When the White-key pedal is pressed, the chord changes from major to seventh, and when released, the chord returns to major. When both Black- and White-key pedals are pressed, a minor seventh results.



Note: The bass note will play the root and fifth of any chord pressed, except when the Jazz Rock rhythm is used; in that case the bass sounds the root only.

FINGERED CHORDS

- Select the rhythm and set both its tempo and volume as explained above.
- Depress the Fingered Chord button.
- Play a desired chord (major, minor, seventh or minor seventh) on the lower manual.



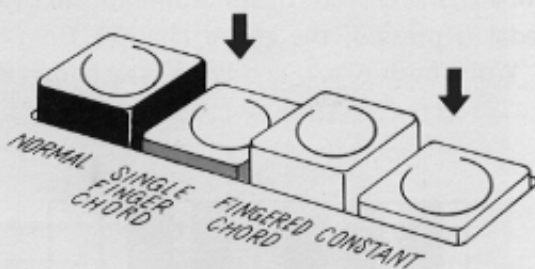
Now as long as you hold that chord it will play according to the rhythm and tempo you have set. If the Single Finger Chord and Fingered Chord buttons are both pressed, the Single Finger Chord takes precedence.

Auto Bass/Chord Fun Blocks

CONSTANT

- Select the rhythm and set both its tempo and volume as explained above.
- Depress the Constant button and either Single Finger Chord button or the Fingered Chord button.
- Press the desired key on the lower manual.

As long as this key is held down, the chord, as well as a pedal note the same as the root of the chord, will sound as if they were held down during normal play (i.e., without any rhythm pattern). As soon as this key is released the chord stops.



NORMAL

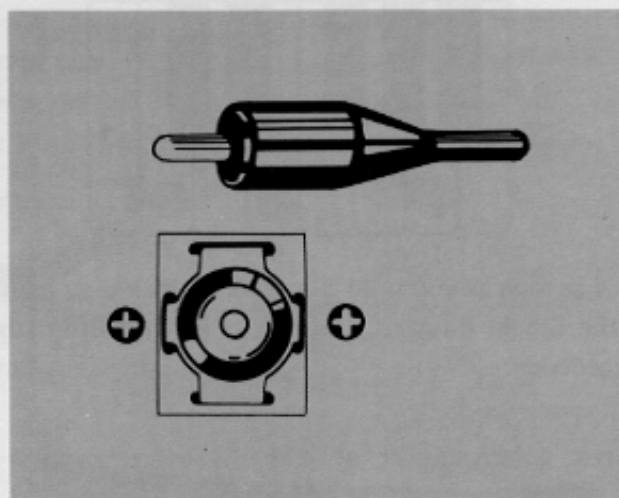
This button cancels the other Fun Blocks, returning the lower manual and the pedals to normal playing functions.

Expression Pedal

This pedal is extremely important for adding emotion to your playing. The pedal is balanced to stay in any position once set. Rest the entire right foot on the pedal and relax it, pressing with the toe to increase volume, with the heel to decrease it.

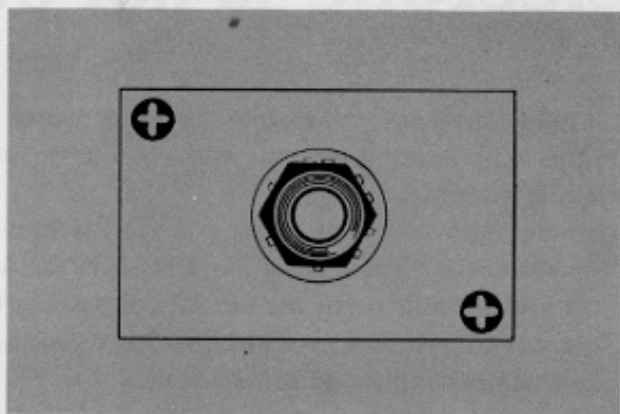
Ext. In Jack

This is used to feed any sound source (i.e., Tape recorder) through the Electone speaker. Since the volume of the sound sources is not affected by the expression pedal, you can play along on the Electone with any other performance.



Headphone Jack

A Yamaha headphone set (optional) can be plugged into the jack under the keyboard. With the headphones connected, the speaker is automatically shut off, allowing you to play or practice at any volume level without disturbing anyone.



Playing the Electone

First turn on the power switch. No warm-up period is required. The power is on when the pilot lamp is on; the Electone operates quietly. This lamp also indicates whether the Electone is on when not in use.

Next, set up a registration (set all the levers and controls you wish to use for the upper and lower manuals and the pedals). Select tone combinations according to suggestions in the music you are going to play, or experiment with your own combinations. Remember that the registration noted on any sheet of music is no more than a suggestion, and your idea may well be even more suitable.

By the same token, do not be alarmed if you have a piece of music with no registration for your organ. With a bit of imagination you can approximate the registration for a different organ, going on to improvise on your own. This will be an ever-new source of creative enjoyment as you become more and more familiar with the various Electone controls and effects.

Electone is not out of order If . . .

1. . . .the set does not go on when the power switch is turned on. Check the following.

Is the AC plug fully inserted into the electric wall outlet? Reinsert it to be sure. Is there power coming from that outlet?

If there is power in the outlet but the Electone does not play, unplug the cord and contact your Yamaha dealer. There are NO USER SERVICEABLE PARTS inside.

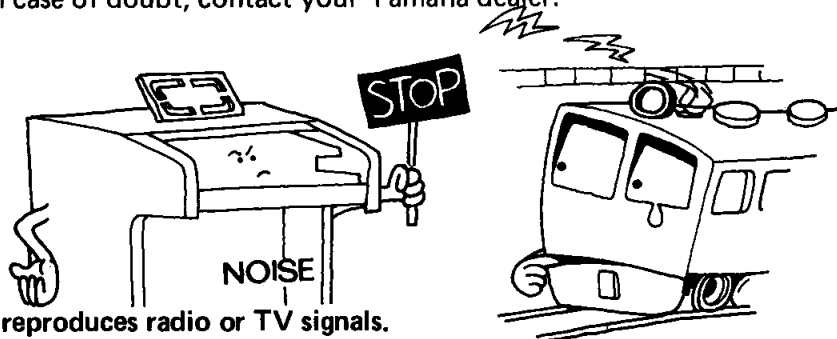
2. . . .a sound should occur the instant you turn on the switch.

This merely indicates normal operation consequent to a surge of electricity in the main amplifier.

3. . . .occasional unpleasant static occurs.

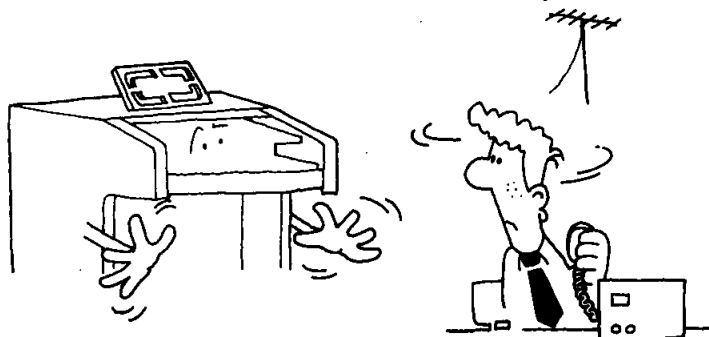
In the majority of such cases, the cause can be traced to the turning on or off of refrigerators, washing machines, electric pumps or other household appliances. Electrical faults in a neighboring outdoor neon sign may also be to blame.

If the cause is a fault in a neon or fluorescent lighting fixture, it should be repaired. When the cause is unknown, or in case of doubt, contact your Yamaha dealer.



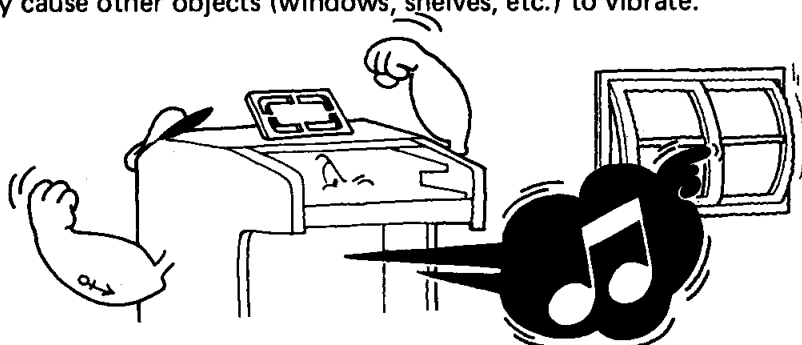
4. . . . the Electone reproduces radio or TV signals.

If there is a powerful transmitter such as a radio station in the vicinity this can occur. Contact your Yamaha dealer.



5. . . .rattling (sympathetic vibration) occurs.

All materials have critical resonance frequencies at which they vibrate. The Electone's continuous tones will naturally cause other objects (windows, shelves, etc.) to vibrate.



6. . . .pedal notes sound too high, upper keyboard notes too low. This is especially noticeable when comparing the Electone and piano. Piano tones are combinations of harmonics and must interact with their surroundings, while Electone harmonics are simpler (multiples of the fundamental tone), requiring the Electone to be adjusted differently at the assembly stages.

Specifications

KEYBOARDS

Upper Manual	37 keys $f \sim f_3$ (3 octaves)
Lower Manual	37 keys $F \sim f_2$ (3 octaves)
	13 keys $C_1 \sim C$ (1 octave)

TONE LEVERS

Upper Manual	Flute Oboe String
Lower Manual	Flute (or Piano*) Cello (or Guitar*)
Pedals	Bass

* It becomes so with ABC.

EFFECT LEVER

Vibrato

AUTO RHYTHM SECTION

Rhythm Selectors

March
Waltz
Swing
Jazz Rock
Bossanova

Rhythm Controls

Rhythm Start
Tempo
Volume

Tempo Indicator Lamp

AUTO BASS/CHORD FUN BLOCKS

ABC Selectors
Normal
Single Finger Chord
Fingered Chord
Constant

OTHER CONTROLS

Expression Pedal
Power Switch

OTHER FITTINGS

Pilot Lamp
Headphone Jack
External Input Jack
Music Rest

SPEAKER

Yamaha 30cm (12")

CIRCUITRY

Solid State (Incl. ICs)
Output Power: 15 Watts (RMS)
Power Consumption: 40 Watts
Power Source: AC, 50/60Hz

DIMENSIONS

Width: 100cm (39½")
Depth: 55cm (21½")
Height: 88cm (34¾")

WEIGHT

43kg (95 lbs.)


FINISH

American Walnut Grain

Specifications subject to change without notice.

Special Instructions for British-Standard Model

As the colours of the wires in the mains lead of the apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows.

The wire which is coloured GREEN-and-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol  or coloured GREEN or GREEN-and-YELLOW.

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

IMPORTANT

THE WIRES IN THE MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE.

GREEN-AND-YELLOW: EARTH
BLUE: NEUTRAL
BROWN: LIVE

WARNING:

THIS APPARATUS MUST BE EARTHED.

SINCE 1887  **YAMAHA**
NIPPON GAKKI CO., LTD. HAMAMATSU, JAPAN