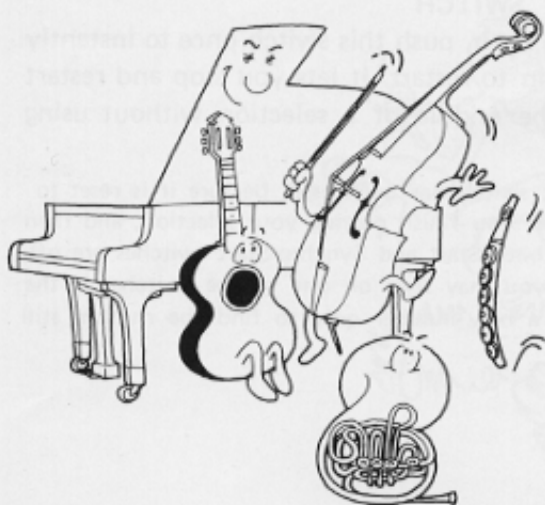


# Auto Bass/Chord Fun Blocks



The BK-5B is equipped with a "Fun Block" section of five buttons which can be used in conjunction with the Auto Rhythm section (see p. 8). It enables you to play a variety of alternating bass chord rhythms, with the pedal and chords automatically matching the melody notes, 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 fun block 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 both Piano and Guitar sounds are available); 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 until it clicks and stays down.
- Set the Rhythm Start switch on.
- Adjust the rhythm tempo and volume.
- Press the Single Finger Chord button.

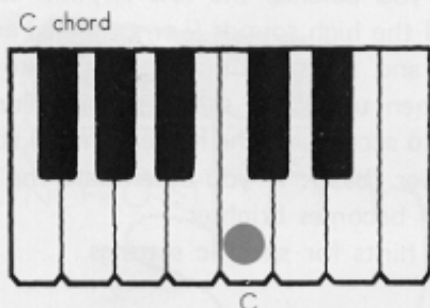
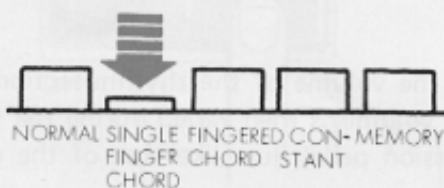
Now, if you press a C key on the lower manual, a C major chord will play in an alternating pattern which matches the rhythm pattern and tempo set.

As long as the key is held down the bass chord rhythm will continue, but will stop as soon as the key is released. If the Minor Chord (left) foot piston is depressed at this time, the chord will change to a minor (i.e., from C major to C minor). Releasing the Minor Chord foot piston will change the chord back to major.

If the Seventh Chord (right) foot piston is depressed at this time, the chord will change to a seventh (i.e., from C major to C seventh). Releasing the Seventh Chord foot piston will change the chord back to major. If both foot pistons are held down at the same time, a minor seventh chord will result (i.e., from C major to C minor seventh).

In other words, a combination of one lower manual key and the two foot pistons permits the creation of either major, minor, seventh or minor seventh chords.

**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.





C Major chord



## FINGERED CHORDS

- Select the rhythm and set both its tempo and volume as explained earlier.
- Depress the Fingered Chord button.
- Play a desired chord (major, minor, seventh, major seventh, 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. The foot pistons have no effect when the Fingered Chord button is pressed. If the Single Finger Chord and Fingered Chord buttons are both pressed, the Single Finger Chord takes precedence.

## 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.

## MEMORY

This button can be used in conjunction with the (Single Finger Chord button only) press both buttons and set the rhythm (including tempo and volume) as explained above. Now, when a lower manual key is held down the bass chord rhythm will play according to the rhythm set, but will also continue to play even when the key is released. The memory function also has another use. When this button is depressed along with both the Single Finger Chord and Constant buttons, it provides a continuing bass chord just as when the latter two buttons are used alone. In this case, however, the bass chord will continue to sound even after the key is released.

As with Single Finger Chord play, the Minor and Seventh Chord foot pistons can be used to temporarily alter the chord.

## NORMAL

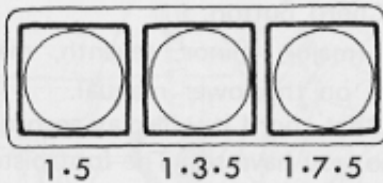
This button cancels the other Fun Blocks, returning the lower manual and the pedals to normal playing functions.

Note: The Flute 8' voice is not affected by the Auto Rhythm rhythm pattern. If it is set on it will sound continuously for any key held down. Use it to soften the mood of the Auto Bass Chord accompaniment.

# Bass Variation

The Electone BK-5B lets you choose between three bass patterns to match the lower manual harmony.

Note: This bass variation works with Rumba and Slow Rock beats.



When the Single Finger Chord button is depressed, the three bass variations are created. The chord and bass tones will change according to whether the Minor or Seventh foot pistons are pressed.

When the Fingered Chord button is depressed, bass variations are available with Rhumba and Slow Rock beats, just as when the Single Finger Chord button is depressed. If the Rhythm Variation button is pressed, however, then bass variation will be available with Rhumba only.

Bass Variation	Type of Chord	Rhythms Effected	Bass Notes Played
<p>1·5</p>	{ Major Minor Seventh Minor Seventh }	{ March, Waltz, Swing, Slow Rock } { Rhumba, Bossanova, Samba }	1·5

Explanation: This is the basic pattern; it alternates the root (1) and fifth (5) in the bass regardless of the rhythm chosen or type of chord. The one exception is the Jazz Rock rhythm, which maintains root (1) Pedal and no alternation.

Bass Variation	Type of Chord	Rhythms Effected	Bass Notes Played
<p>1·3·5</p>	{ Major Minor Seventh Minor Seventh }	{ March, Waltz, Swing } { Bossanova, Samba } { Slow Rock, Rhumba }	1·5  1·3·5

Explanation: This selector effects the Slow Rock and Rhumba rhythms, with which it will play a root (1), third (3), and fifth (5) pattern. All other rhythms function as with the (1·5) selector.

Bass Variation	Type of Chord	Rhythms Effected	Bass Notes Played
<p>1·7·5</p>	{ Major Minor Seventh Minor Seventh }	{ March, Waltz, Swing } { Bossanova, Samba } { Slow Rock, Rhumba }	1·5  1·7·5

Explanation: This selector effects the Slow Rock and Rhumba rhythms when a seventh, major seventh or minor seventh chord is being played, with which you will hear the root (1), seventh (7), and fifth (5) bass notes. When playing a major or minor chord the unit will perform exactly as it does with the second Bass Variation selector (1·3·5). Remember, the Jazz Rock rhythm is not affected by the Bass Variation selector; it plays only the root (1).

### • Sounds and Effects

To completely familiarize yourself with the various sounds and effects possible with the Auto Bass/Chord, hold a G7 chord down and try changing the Rhythm buttons (example: Swing to Bossanova to Samba). With each change, try each of the three Bass Variation buttons and listen to the bass pedal pattern changes. While you are experimenting with the rhythm patterns, use the Volume knob (upper left) to increase and reduce the volume of the Auto Rhythm Section and listen to the changing balance between the percussive rhythms, chords, and pedals. Strive for a good balance. The speed of your rhythm accompaniments can be controlled precisely with the use of the Tempo control.



### • Synchro-Start

When the Synchro-Start selector is in the "ON" position, the red light will blink the speed of the rhythm. When the rhythm is playing, the red light will blink on the first and sometimes the first and third beats of the measure depending on the rhythm chosen.

### • Rhythm and Registrations

The suggested rhythms and registrations are only suggestions, and other rhythms and registrations may be used. It is fun to experiment with rhythm and sound. However, when the signature at the beginning of the song is 3/4, only the Waltz rhythm should be used.

Try changing rhythms in the same song. When changing rhythm in a song, the rhythm used must remain at the same tempo (speed). Both Swing and Slow Rock are the same speed and can be used interchangeably. The Jazz Rock, Bossanova, Rhumba and Samba are all the same speed and can be used interchangeably.

The rhythms that use three bass pedals (notes) are Slow Rock, Rhumba and Samba. To use the three bass pedals, the Bass Variation selector must be  or  with the Fun Blocks button placed in the "ON" position.

### • To Play a Melody

Pull forward all the tone levers for both the lower and upper manuals and add the Bass 16' for the Pedals. (NOTE: The Fun Blocks should be "OFF" at this time). Play the melody on the upper manual by following either the numbers or letters.

Note: Both "play by number" and "play by letter" systems are used to permit non music readers to enjoy playing the different types of chord organ books available.)

Add the left hand chords, shown over the melody line, on the lower manual and hold each chord until the next chord is shown.

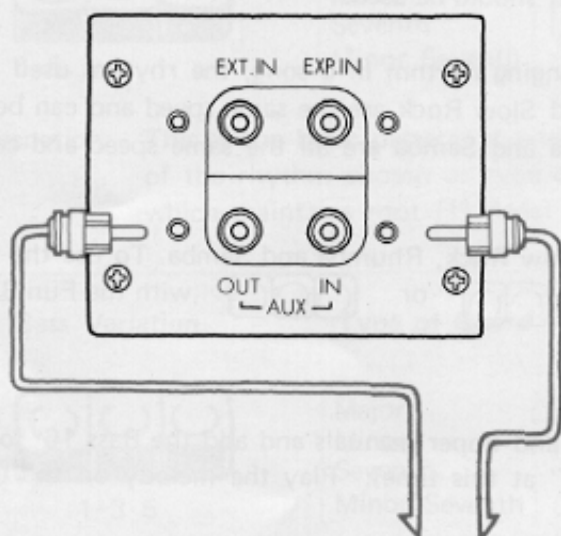
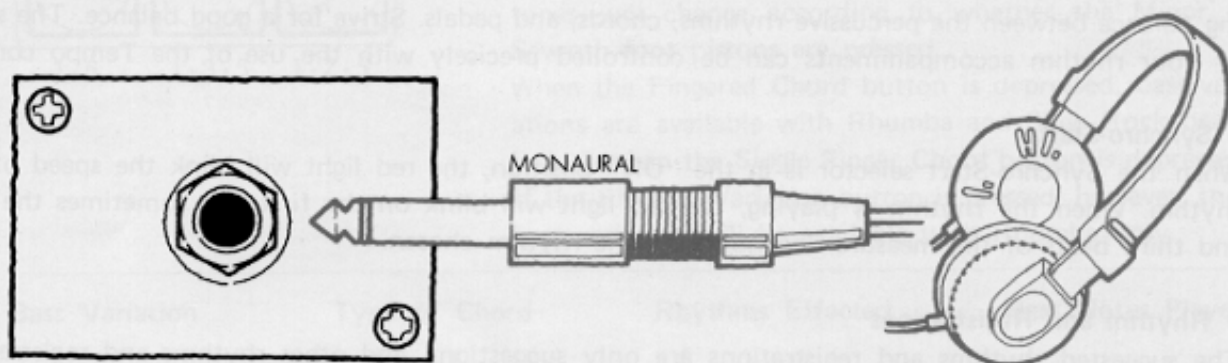
Note: When the Fun Blocks is added, the left hand chords will play in rhythm.)



# To Fully Enjoy Your BK-5B

## HEADPHONE

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



## EXT. IN

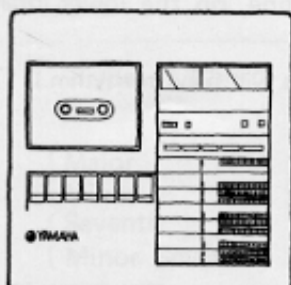
This is used to feed any sound source through the Electone speaker: radio, record player or tape recorder. Since the volume of these sound sources is not affected by the expression pedal, you can play along on the Electone with any other performance.

## EXP. IN

Like the external input jack, this jack accepts any sound source and reproduces it through the BK-5B's speakers. The volume of the sound source can be controlled by the expression pedal.

## AUX. IN/OUT

Use these jacks for connection with a tape deck. For recording connect the Aux Out jack with the tape deck's Line In jack; for playback, connect the Aux In jack with the tape deck's Line Out jack. Control the recording and playback levels on the tape deck.



# Do not Be Alarmed If...

1. A note should sound the instant you turn on the switch.

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

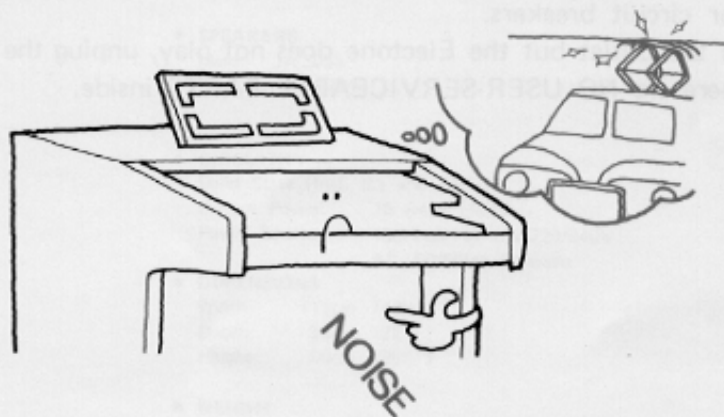
2. Only one note is produced even when two pedals are depressed simultaneously.

In order to achieve tonal clarity, the Electone is designed so that a note is electronically cancelled the instant the next note is struck. If two pedals are struck simultaneously, only the higher one sounds.

3. Occasional unpleasant static occurs.

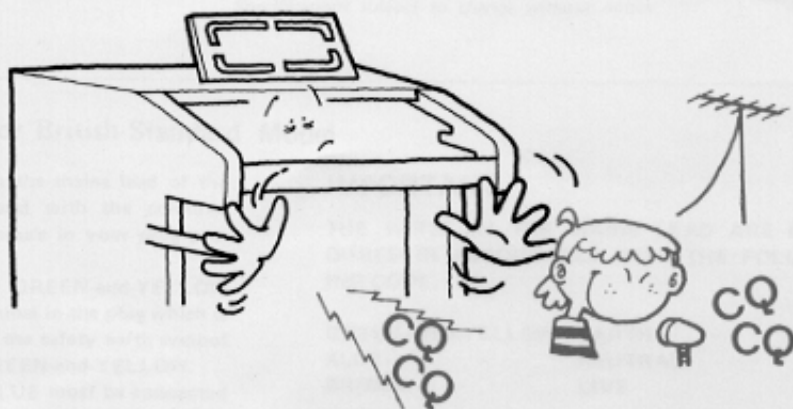
In the majority of such cases, the cause can be traced to the turning on or off of refrigerators, washing machines, electric pumps or other household appliances. Electrical fault in a neighboring outdoor neon sign may also be to blame.

When the cause is a home appliance, connect the Electone to an outlet as far as possible away from the offending appliance. This phenomenon, although annoying, poses no danger to the Electone circuitry. 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.



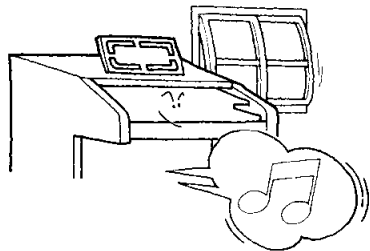
4. The Electone reproduces radio or TV signals.

If there is a powerful transmitter such as 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 manual 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.

7. 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? —Unplug the Electone and plug in a lamp; switch it on to check that it lights. If it does not the problem is probably in your household electric system. Check your fuses or circuit breakers.

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.

# Specifications

## • KEYBOARDS

Upper Manual	44 keys f ~ c4 (3 3/4 octaves)
Lower Manual	44 keys F ~ c3 (3 3/4 octaves)
Pedals	13 keys C1 ~ C (1 octave)

## • TONE LEVERS

Upper Manual	Flute	16'
	Flute	8
	Flute	4
	Trombone	16'
	Oboe	8'
	String	8'
Lower Manual	Flute	8'
	Horn	8' or Piano
	Cello	8' or Guitar
Pedals	Bass	16'
	Bass Guitar	

## • EFFECT LEVERS

Vibrato
Percussive 4' (Upper)
Percussive Length (Upper)
Pedal Sustain

## • EFFECT CONTROLS

Reverb
Reverb Balance (Upper/Lower)

## • TREMOLO SELECTORS

Voice (Main/Rotary)
Tremolo
Chorus

## • ABC FUN BLOCKS

ABC Selectors
Normal
Single Finger Chord
Fingered Chord
Constant
Memory
Minor Chord Foot Piston
Seventh Chord Foot Piston

## • AUTO RHYTHM SECTION

Rhythm Selectors	
March	Jazz Rock
Waltz	Rhumba
Swing	Bossanova
Slow Rock	Samba
Variation	

## Rhythm Controls

Rhythm Start
Rhythm Foot Switch
Synchro-Start
Tempo
Volume
Balance
Tempo Indicator Lamp

## • BASS VARIATION

Bass Variation Selectors
1-5
1-3-5
1-7-5

## • OTHER CONTROLS

Expression Pedal
Tremolo Speed Control
Power Switch
Pilot Lamp

## • OTHER FITTINGS

Headphone Jack
External Input Jack
Expression Input Jack
Aux In Jack
Aux Out Jack

## • SPEAKERS

Main: JA-3055
Tremolo: JA-1701

## • CIRCUITRY

Solid State (Incl. ICs and FETs)
Output Power: 15 watts (RMS)
Power Source: 100/110/117/125/220/240V AC, 50/60Hz 70 watts

## • DIMENSIONS

Width: 111cm (43 3/4")
Depth: 56cm (22")
Height: 90cm (35 3/4")

## • WEIGHT

57 kg (125 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