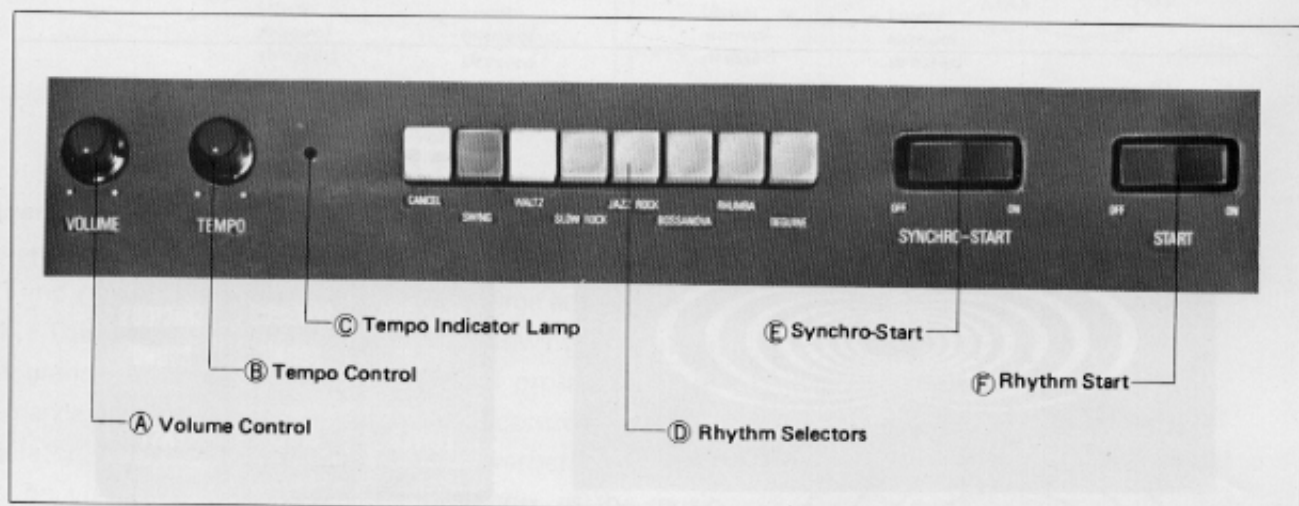


# Auto Rhythm Section

Yamaha Electone model BK-6 incorporates an auto rhythm section. This section provides a variety of rhythm accompaniments, from latin beats to today's popular rock rhythms, at the simple push of a selector button.

In addition, the system employs the exclusive Yamaha Synchro-start, which automatically begins the rhythm accompaniment when the first lower manual or pedal note is struck. These features assure extra versatility from a virtual built-in rhythm band.



## How to Use the Auto Rhythm Section

- 1) Push the rhythm selector **D** of your choice. To change rhythms, just push another button; if no rhythm is desired, push the Cancel button.
- 2) Press the Rhythm Start tablet **F** and the rhythm will immediately begin. Then use the Volume **A** and Tempo **B** controls to regulate. The tempo indicator lamp **C** flashes the first beat of every rhythm.
- 3) Then, when ready to play, switch on the Rhythm Start tablet **F** and begin your selection after the beat is fixed in your mind. Use the tempo indicator lamp as a guide.
- 4) For more advanced players, use the Synchro-start tablet **E** instead. This permits the selection to begin first, providing a more impressive performance that can begin with a beat-free upper melody. This Yamaha exclusive is the world's first of its kind, and will assure more professional-sounding selections for any advanced player.
- 5) At the end of the selection, turn the Rhythm Start or Synchro-start tablet off.



## Instructions for Operation of "Auto Chord / Bass"

Your new Yamaha Electone, Model BK-6, is equipped with a lever marked "Auto Chord/Bass" **Ⓐ** . When used in conjunction with the "Automatic Rhythm" (see page 14). It enables you to play just about any combination of alternating bass-chord rhythms simply by sustaining (holding down constantly) a chord on the lower keyboard. From your very first, simple melody, you will be sounding like a pro. Here is all you have to do:



Move the "Auto Chord/Bass" lever toward you **Ⓐ** . You have now engaged the memory system and deactivated the pedals (as long as this lever is in the engaged position, you cannot play your BK-6 as a conventional organ). Push the Bass variation button marked 1-5 right below the "Auto Chord/Bass" lever **Ⓑ** . Select one of the automatic rhythm patterns and push the corresponding button down until it clicks and stays down **Ⓒ** .

Immediately to the right of the rhythm button you will find two rocker type switches **Ⓓ** . Push the "on" side (right) of the one marked "Synchro-Start" (the one marked simply "start" is to be used when you wish to continue hearing the automatic rhythm even after releasing your chord on the lower keyboard). Now, be sure you have at least one stop for each: Upper Keyboard, Lower Keyboard, and Pedal (See page 6, 7). You are now ready to play.

Form one of the following type of chords on the lower manual with your left hand in any inversion:

- Major
- Minor
- Seventh
- Minor Seventh

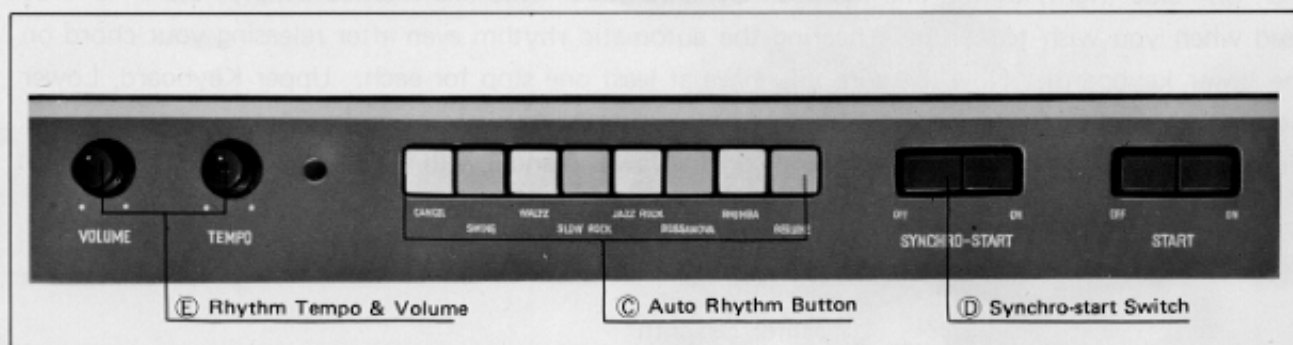
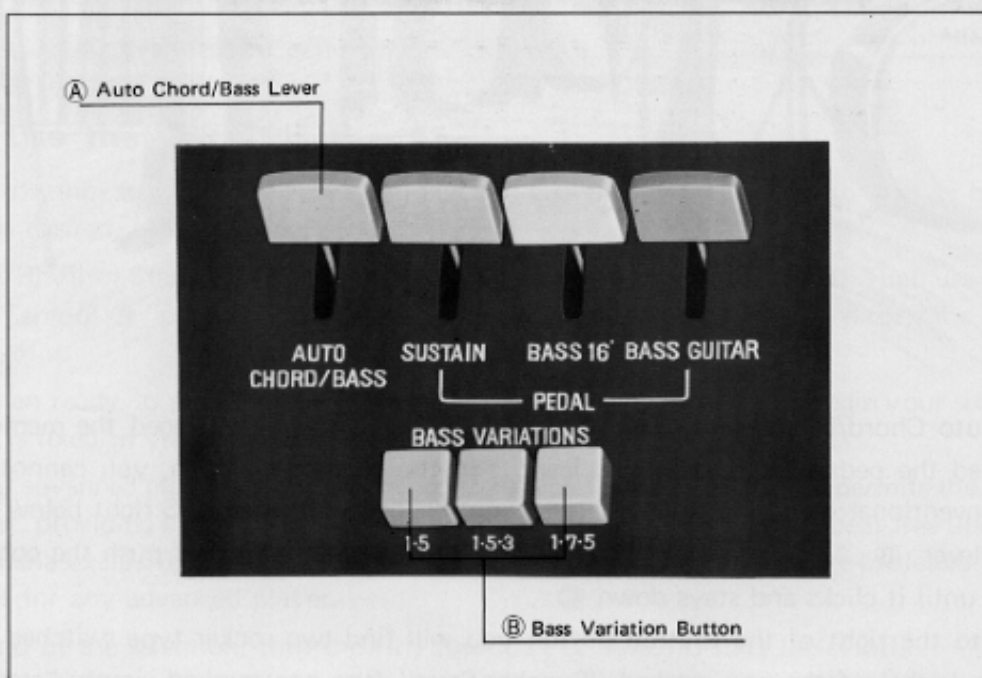
(These are the only chord types for which the memory unit can supply the proper bass note). Play all the notes in the chord at the same time. The unit should now be working. Adjustments may be necessary to the "Speed" and "Volume" knob to the left of the "Automatic Rhythm" unit (E). Adjustments may also be required to balance the relative volume of bass, chords, and solo (upper) keyboard; do this in the same way you would if playing conventionally.

When the first chord is played, the unit will begin to operate on the downbeat, or first beat of the measure. When the chord is released you will not hear any more sound, but the unit is still operating within its cycle. To start unit on a downbeat again, when beginning a new song, it is necessary to re-set the "Synchro-Start" switch (D).

### Bass Variation Buttons :

Just below the "Auto Chord/Bass" lever are three "Bass Variation Buttons" (B), marked 1-5 (left) 1-5-3 (center), and 1-7-5 (right). The numbers under the buttons correspond to the notes on the musical scale in any given key and indicate what bass notes are available in the memory unit when a particular button is depressed. The type of chord and the automatic rhythm used will determine the actual note (and their sequence) that you hear.

There now follows a chart which indicates by scale step what bass notes will sound with each possible combination (Note: for the unit to perform correctly, at least one but not more than one button should be down in each section), "Bass Variation" " Automatic Rhythm".



Bass Variation Button	Type of Chord	Rhythms Effected	Bass Notes Played
1-5	Major Minor Seventh Minor Seventh	Swing, Waltz, Bossanova Slow rock, rhumba, beguine	1-5

Explanation: This is the basic pattern and alternates the root (1) and fifth (5) in the bass regardless of rhythm chosen for type of chord. The one exception is the "jazz rock" rhythm, which never plays anything but the root in the bass.

Bass Variation Button	Type of Chord	Rhythms Effected	Bass Notes Played
1-5-3	Major Minor Seventh Minor Seventh	Swing, Waltz, Bossanova Slow rock, Rhumba, Beguine	1-5 1-3-5

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

Bass Variation Button	Type of Chord	Rhythms Effected	Bass Notes Played
1-7-5	Major Minor  Seventh Minor Seventh	Swing, Waltz, Bossanova Slow Rock, Rhumba, Beguine  Swing, Waltz, Bossanova Slow Rock, Rhumba, Beguine	1-5 1-3-5  1-5 1-7-5

Explanation: This button effects only the Slow Rock, Rhumba, and Beguine rhythm when a 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" button (1-5-3). Remember, the Jazz Rock rhythm is not affected by the "Bass Variation" button; it plays only the root (1).

# Other Controls

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## Knee Lever : ⑩

The metal lever folded horizontally under the keybed is the Knee Lever. This lever, when pulled down for use, allows control of Reverb effect in conjunction with Reverb Control ⑮ (See page 12.)

Reverb Control is used for maximum setting, while the Knee Lever is operated with the right knee for passage-by-passage or even phrase-by-phrase reverb control precision during the performance.



## Master Volume Control : ⑪

The knob determines the maximum volume obtained from the Electone and can be varied as desired.

## Expression Pedal : ⑫

Expressive shading within each phrase, and accenting of individual notes can be achieved with this pedal, within the overall range set by the Master Volume Control. A full explanation will appear on page 23.

## Stunning furniture design. roll-top fallboard

The cabinet artistry of the BK-6 blends with even the most impeccable decorator surroundings, especially when the roll-top fallboard is down. Close it to protect the keyboard from dust and scratches, keep out unauthorized hands.



# To Fully Enjoy Your Electone . . .

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Besides many tone levers and effect controls through which almost infinite varieties of voice and expression can be obtained, the Yamaha Electone BK-6 offers you some extra special features to further enhance your playing pleasure.

## Headphone Jack

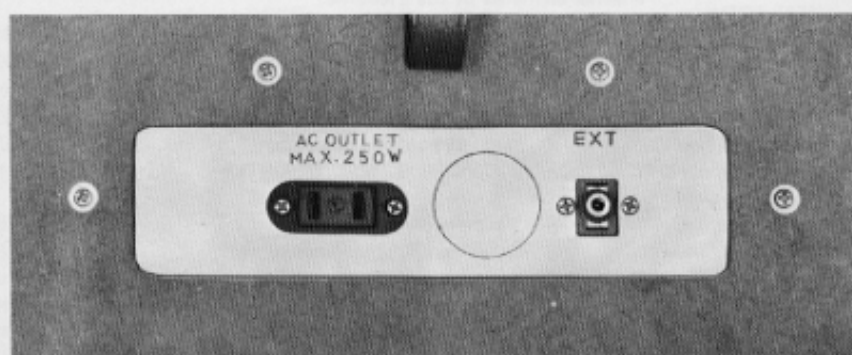
Plug a headphone set (optional accessory) into the jack under the keyboard and you can play with the volume as high as you like without disturbing anyone, even in the middle of the night.

## Recording and Playback

You can record your Electone selections via the headphone jack, then play them back via Ext. In. jack.

For recording, your tape recorder must be equipped with a high impedance input jack, for Electone headphone output signal is 40 Vp-p (output resistance 220 ohm). When recording, it must be remembered that the signal to the Electone speaker will be cut off, so sound monitoring must be done via the tape recorder monitor system.

Playback by connecting the tape recorder output jack to the Electone Ext. In. Jack. In this case a special phone type plug must be used.

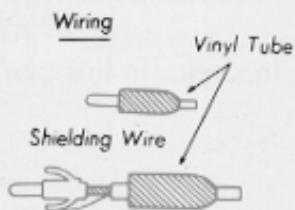


## External Input Jack

This jack is located at the lower lefthand corner of the back of the Electone (See photo on page 15). It allows you to connect a tape recorder, record player or radio directly, using the amplifier and Natural Sound speaker of the Electone. Thus these external inputs will come to life under Natural Sound reproduction and give you an opportunity to broaden your musical experience.

Since their tones are not controlled by the expression pedal, you can play a tape recording or record of an orchestral concert and 'sit in' yourself on the Electone.

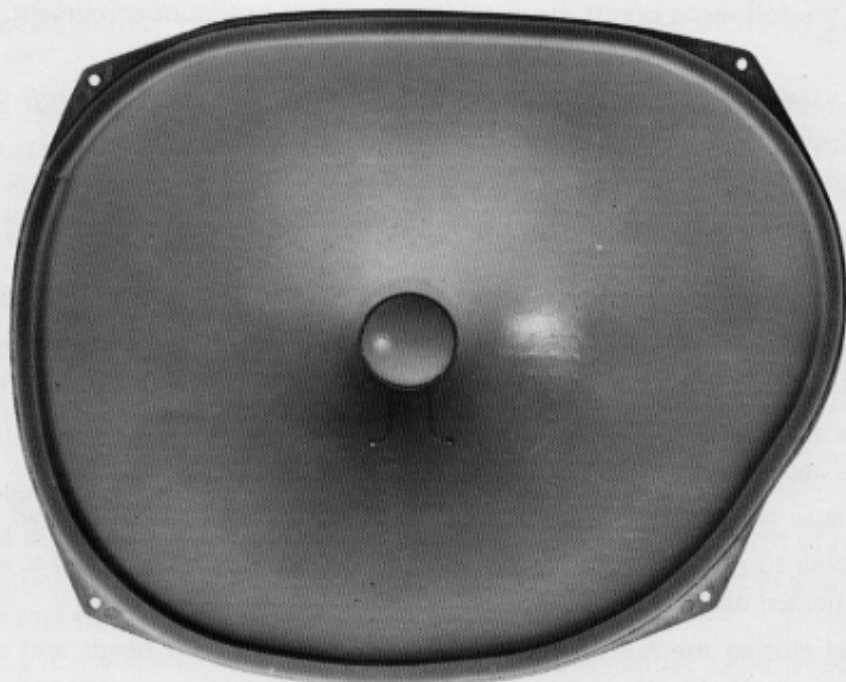
Alternatively, you can record yourself playing a piano or the Electone, replay the tape, and be your own duet partner.



### Note:

1. Connect the EXT. IN Jack and the output jack of a tape recorder with shielding wire. Use a spare plug inserted in the EXT. IN Jack.
2. Volume setting for playback tends to differ with the make or model of tape recorder.
3. Adjust the volume of the Electone and the tape recorder to avoid distortion of the sound quality.
4. Make absolutely sure never to touch or otherwise interfere with the circuits or internal elements of the Electone.

# A Word about Yamaha's Exclusive Natural Sound Speaker



## Natural Sound Speaker

The first real speaker news since the cone speaker was born decades ago. Providing an incredible frequency response down to 32Hz, it gives you all the harmonic overtones usually missed in conventional types. What's more, it pro-

jects as well to the front and back, and its all-new synthetic base assures years of trouble-free, living performance in any room, with tonal beauty perfectly attuned to the human ear.

## SPECIFICATIONS OF MODEL BK-6

### KEYBOARDS

Upper Manual	44 keys	f ~ c4 (3 7/8 octaves)
Lower Manual	44 keys	F ~ c3 (3 7/8 octaves)
Pedals	13 keys	C1 ~ C (1 octave)

### TONE LEVERS

Upper Manual	Flute	16'
	Flute	8'
	Brass	8'
	Oboe	8'
	String	8'
Lower Manual	Flute	4'
	Wood	8'
	Horn	8'
Pedals	Cello	8'
	Bass	16'
	Bass Guitar	

### EFFECT LEVERS

Vibrato
Repeat Speed (Upper)
Pedal Sustain

### EFFECT CONTROLS

Brilliance
Manual Balance

### Reverb

Reverb Balance (Upper/Lower)

### EFFECT SELECTORS

Spacious Sound Upper  
Spacious Sound Lower  
Spacious Sound Slow/Fast

### AUTO RHYTHM SECTION

#### Rhythm Selectors

Swing	Bossanova
Waltz	Rhumba
Slow Rock	Beguine
Jazz Rock	Cancel

#### Rhythm Controls

Rhythm Start  
Synchro-Start  
Tempo  
Volume

Tempo Indicator Lamp

### AUTO ACCOMPANIMENT SECTION

Auto Chord/Bass Lever

Bass Variation Selectors

1 · 5  
1 · 5 · 3  
1 · 5 · 3 · 7

### OTHER CONTROLS

Master Volume

### Expression Pedal

Knee Lever  
Power Switch  
Pilot Lamp

### OTHER FITTINGS

Headphone Jack  
External Input Jack  
Music Rest  
Roll-top Fallboard  
Matching Bench with Music Storage Space

### NATURAL SOUND SPEAKER

JA-5101 59 x 48 cm (23 1/4 x 14 1/2")

### CIRCUITRY

Solid State (Incl. ICs and FETs)  
Main Amplifier: OCL System  
Continuous Output Power: 30 Watts  
Power Consumption: 90 Watts  
100/110/117/125/220/240V AC,  
50/60 Hz

### DIMENSIONS

Width: 111 cm (43 1/2")  
Depth: 56 cm (22")  
Height: 90 cm (35 1/2")

WEIGHT 62 kg (136 lbs.)

FINISH American Walnut Grain

*Specifications subject to change without notice.*



# Care of Your Electone

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In general you should treat your Electone with the same care you would give any fine musical instrument. However, the following points are suggested to assure optimum enjoyment.

1. Be sure to use your Electone only on the correct voltage. If it is necessary to change the voltage of the Electone, please consult your Yamaha Electone service agent.
2. If any trouble develops, contact your Yamaha Electone service agent. In any case make absolutely sure never to touch or otherwise interfere with the circuits or the internal elements of the Electone.
3. When you have finished playing, be sure to turn off the power switch.
4. In order to clean the plastic keys, tabs, etc., use a damp cloth. Never apply organic solvents such as alcohol as it may result in damage to the plastic materials used.
5. Do not expose the Electone in such a way that of the finish of separation along the joints of the wood.
6. Be absolutely sure never to strike or scratch the surface of the organ cabinet with a hard stuff.
7. It is also advisable to place the Electone in such a way that it is not exposed to excessive humidity or currents of heated air.
8. In opening and closing the fallboard, grasp the handle with both hands and slide the fallboard gently in its groove. Never attempt to raise the fallboard directly upwards and do not place heavy objects on it.
9. During a thunderstorm turn off the Electone power switch by all means. Unplug the unit if possible.



# 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 flow of electricity in the main amplifier.

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

When the pedal sustain effect is used, notes overlap following notes. In order to achieve tonal clarity, the Electone is designed so that a note is electronically suppressed the instant the next note is struck. If two pedals are struck simultaneously, only the higher one sounds.

## 3. Neighboring objects resonate.

Since the Electone produces a continuous stream of sound, windows, chain or other such objects may be found to resonate. To prevent this, reduce the volume of the Electone or take steps to remove resonance.

## 4. Occasional unpleasant static.

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 perhaps annoying, poses no danger to the Electone's circuitry.

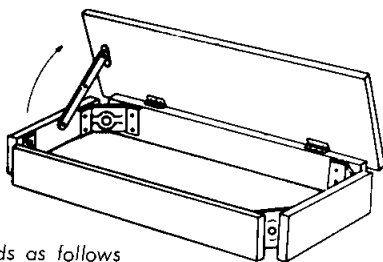
If the cause is a fault in neon or fluorescent lighting fixtures, the fault should be repaired. When the cause is unknown, or in case of doubt, contact your Yamaha dealer.

## 5. The Electone reproduces radio or TV sound signals.

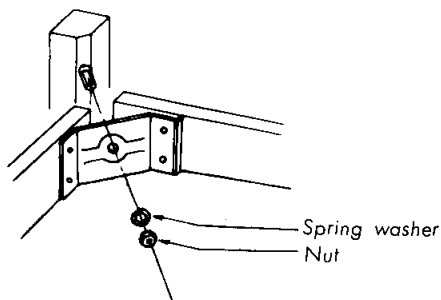
This kind of phenomenon can occur when there is a powerful radio or TV transmitter, or an amateur radio operator located in the vicinity. If this situation is distracting, contact your Yamaha dealer.

## HOW TO SET UP THE BENCH

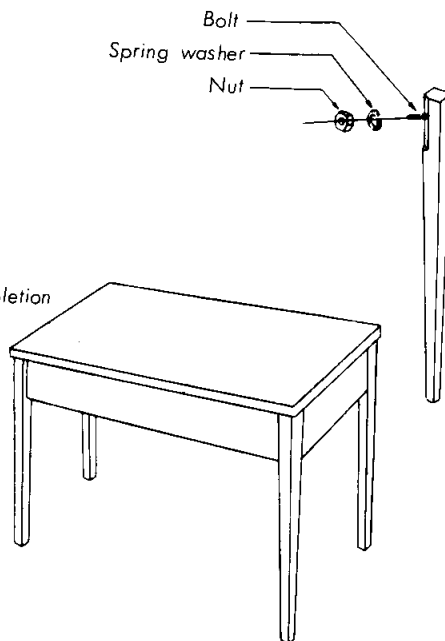
(1) Open the music container and take out the four studs and parts bag



(2) Attach the four studs as follows



(3) Completion



## (Auto Chord/Bass operation samples)

The chord will play according to the notes which is pressed by the hand and a pre-set rhythm pattern driven by auto rhythm section.

Bass differs according to the rhythm pattern and to the rhythm variation button pressed.

The following samples describe the difference of each bass pattern.

In this section various bass patterns are shown according to the rhythms and bass variations.

The last page shows the actual example of Auto Chord/Bass operation accompanying the tune Jingle Bells, with rhumba rhythm and using two different bass variations 157. and 1.5.3. Difference between these two variations is shown so that in the first G7 chord note F is played while the second G7 chord note B♭ is played.

### 1. Swing Bass variation 1.5, 1.5.3, 1.7.5

Chord: C F G C

Pedals:

### 2. Waltz Bass variation 1.5, 1.5.3, 1.7.5

Chord: C C F F G G C C

Pedals:

### 3. Slow Rock Bass variation 1.5

Chord: C C F F

Pedals:

### Bass variation 1.5.3

Chord: C C F F

Pedals:

### Bass variation 1.7.5

Chord: C C G7 G7

Pedals:

4. Jazz Rock Bass variation 1.5, 1.5.3, 1.7.5  
Chord: C F G C

Musical notation for exercise 4. The top staff shows guitar chords: C, F, G, C. The bottom staff shows the bass pedal line with notes and rests.

5. Bossa Nova Bass variation 1.5, 1.5.3, 1.7.5  
Chord: C F G C

Musical notation for exercise 5. The top staff shows guitar chords: C, F, G, C. The bottom staff shows the bass pedal line with notes and rests.

6. Rhumba Bass variation 1.5  
Chord: C F G7 C

Musical notation for exercise 6. The top staff shows guitar chords: C, F, G7, C. The bottom staff shows the bass pedal line with notes and rests.

Bass variation 1.5.3

Musical notation for exercise 1.5.3. The top staff shows guitar chords: C, F, G, C. The bottom staff shows the bass pedal line with notes and rests.

Bass variation 1.7.5

Musical notation for exercise 1.7.5. The top staff shows guitar chords: C, F, G, C. The bottom staff shows the bass pedal line with notes and rests.

7. Beguine Bass variation 1.5  
Chord: C F G C

Musical notation for exercise 7. The top staff shows guitar chords: C, F, G, C. The bottom staff shows the bass pedal line with notes and rests.

Bass variation 1.5.3

Musical notation for exercise 1.5.3. The top staff shows guitar chords: C, F, G, C. The bottom staff shows the bass pedal line with notes and rests.

Bass variation 1.7.5

Musical notation for exercise 1.7.5. The top staff shows guitar chords: C, F, G, C. The bottom staff shows the bass pedal line with notes and rests.

Rhumba Bass variation 1.7.5 Jingle Bells Traditional

Chord: F

Pedal:



Chord: Bb F G7 G7



Rhumba Bass variation 1.5.3

Chord: F



Chord: Bb F G7 F



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