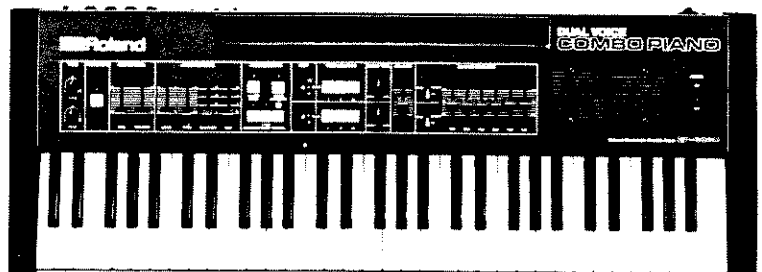


# **DUAL VOICE** **COMBO PIANO**

**EP-6060**

**Owner's Manual**



- The EP-6060 is a dual-voice type combo piano provided with completely independent 2 channel sound sources.
- Natural chorus effect is obtainable as well as rich sounds. Also, each channel can individually create its own sound. Besides, you can mix these two different sounds at any rate you like. Thereby, you can enjoy extremely wide variation of sound creating.
- By using the FEET select switch, you can select 8' (standard pitch), 16' (one octave lower), or 5-1/3' (perfect 5th . . . only CH-B). Expansive sounds can be obtained by separately controlling and mixing the two channels.
- Three tone colors include soft, semi-bright and bright which can be used in any combination.
- By adjusting the two DECAY TIME knobs which are individually controllable, you can subtly alter the tone colors.
- The 6-band GRAPHIC EQUALIZER can adjust the frequency response of the amplifier or the speaker used. Also, it can create both mild and wild sounds by its sound processing function. Set the BYPASS/EQ select switch to BYPASS position if you wish to keep the original sounds unchanged.
- The Automatic Arpeggio function allows automatic play by simply pressing the chord. With the combination of the VARIATION and the BEAT, many different patterns can be played.
- The chord tones being played on the lower section harmonize with the melody being played on the upper section by using the UPPER HARMONY button.
- The LOWER HOLD function enables automatic Arpeggio play to continue even after you release the key.
- The Key Transpose function allows transposition to any key.
- Since there are two independent TUNE adjusting knobs, honkey tonk sound and chorus effect are easily obtainable.
- The Line level and Monitor level are controllable separately. This is specially convenient for live-performance and recording.
- The sound can be easily monitored by the built-in 2W-output speaker.
- By using the DIN jack, synchronization with the Roland Rhythm Machine (TR-606, TR-808, etc) or Bass Line (TB-303) is made possible.

# Contents

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The EP-6060 is a dual-voice combo piano provided with completely independent 2 channel sound sources. Naturally, the functions for sound creating are separately provided in each channel, which allows individual sound creations. The created sounds can be mixed at any rate you like and sent out.

Furthermore, the 6-band built-in Graphic Equalizer can be used to process the created sounds even more.

If you set the both channels exactly the same, perfect dual-voice sounds are obtained and a chorus effect will prove even more natural.

---

### SOUND CREATION AND THE CHANNELS

The EP-6060 is provided with two separate channels (CH-A, CH-B), and the functions of each channel are slightly different. The FEET selector of the CH-A has two positions (8', 16'), while that of the CH-B offers three positions (8', 16', 5-1/3'). The decay time of the CH-B is slightly shorter than that of the CH-A when both DECAY TIME knobs are turned fully counterclockwise. This is because that the CH-A is meant to be the main

channel and the CH-B subordinate one.

The basic sound creating method of the EP-6060 is to add the sound generated in the CH-B to what generated in the CH-A, e.g. if you set the FEET selector of the main channel A to 16' and the DECAY TIME knob to LONG, and those of the subordinate channel B to 5-1/3' and SHORT, you can obtain an organ-like sound with a percussion effect on pressing a key.

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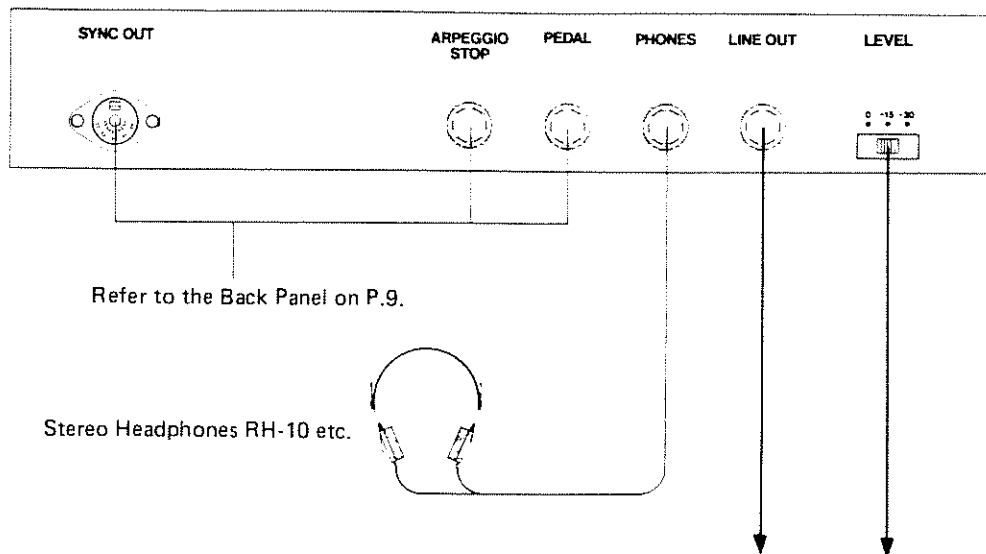
### Important Notes

#### Location

- Operating the EP-6060 near a neon or fluorescent lamp may cause noise interference. If so, change the angle of the EP-6060.
- Avoid using the EP-6060 in excessive heat or humidity or where it may be affected by direct sunlight or dust.

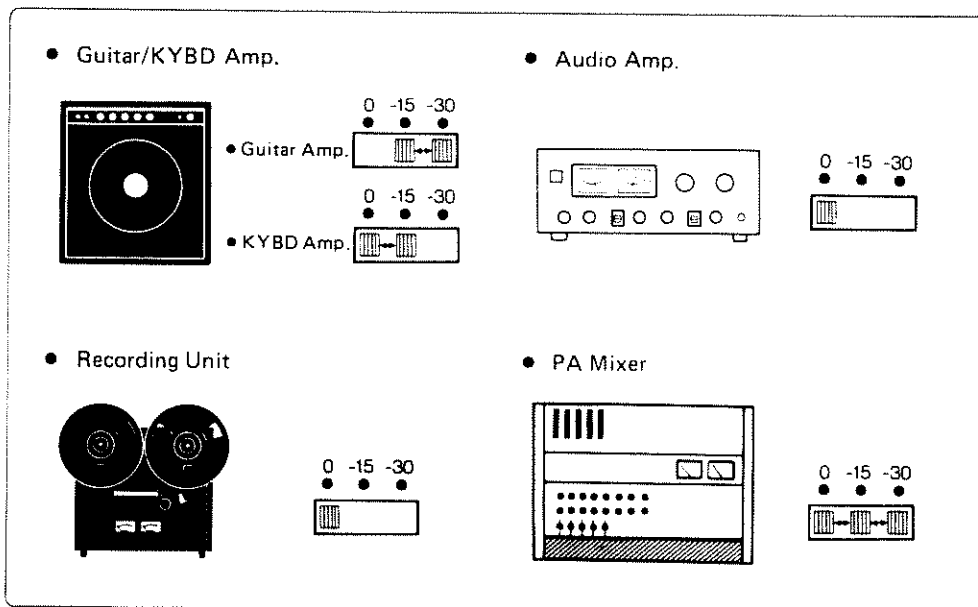
#### Cleaning

- Use a soft cloth and clean only with a neutral detergent.
- Do not use solvents such as paint thinner.



Refer to the Back Panel on P.9.

Stereo Headphones RH-10 etc.



● **Phones jack**

- \* Standard stereo headphones (appropriate impedance:  $8\Omega \sim 30\Omega$ ) can be connected to.
- \* The sound from the built-in speaker stops automatically on connecting the headphones.
- \* The volume is controlled with the MONITOR slider on the front panel.

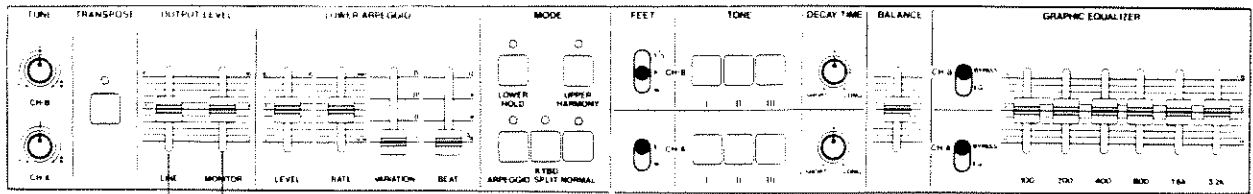
● **LINE OUT jack**

- \* Even if the unit such as an amplifier is connected to this jack, the sound from

the Monitor Speaker (or headphones if they are being used) will be heard. The volume is controlled with the LINE slider on the front panel.

● **LEVEL select switch**

- \* This is to select the output level of the LINE OUT. Set the volume of the external unit and the LINE slider of the EP-6060 at from 5 to 7, and set this select switch to the position which allows the appropriate volume.



● Arpeggio Section → See P.8.

This section controls Automatic Arpeggio play.

● MONITOR slider

This slider adjusts the volume of the Monitor Speaker (or the headphones if they are used). The volume increases as you raise the slider.

● LINE slider

This slider adjusts the output level of the LINE OUT. The volume increases as you raise the slider.

● Sound Creating Section → See P.6.

This is the sound creating section of the EP-6060. The upper part of the panel is the CH-B and the lower part is the CH-A, whereas the GRAPHIC EQUALIZER is commonly used between two channels.

● Mode Section → See P.7.

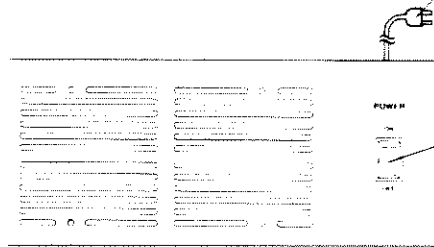
This section is to select the mode. The three buttons in the lower part of the panel are to select the basic mode. The two buttons in the upper part are for more effective play of the EP-6060.

● AC plug

Connect or disconnect the cord while the power switches of the EP-6060 and the external amplifier (if you are using one) are turned off.

● POWER switch

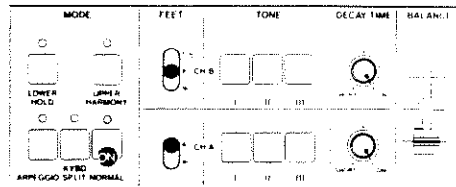
Set the LINE slider and the MONITOR slider to low levels before turning the POWER switch on.



TUNING

- Make connections, turn the POWER switch on and set the volume to appropriate level, then follow these instructions.

① Set all the knobs as shown in the figure below.

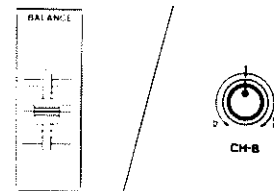


② While pressing any key you like, tune by using the TUNE adjusting knob (CH-A).

\* The frequency is 442Hz (=A) when the knob is set to the middle.

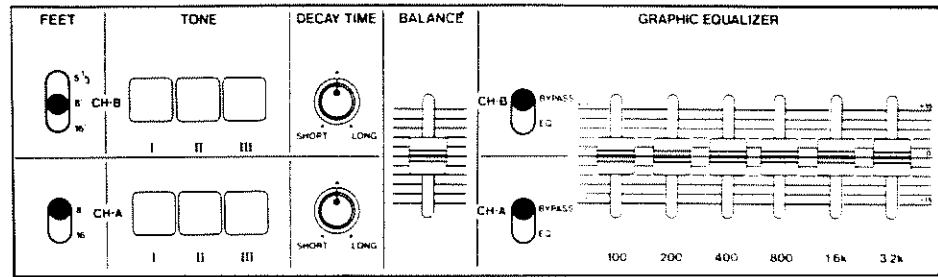


③ Set the BALANCE slider to the middle. Hold any key down and tune until the beats of the both channels die away by using the TUNE adjusting knob (CH-B).



● Now you have completed tuning both channels A and B.

## SOUND CREATING SECTION



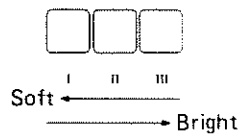
### FEET selector

This switch is to select the pitch. When you change the pitch from 8' to 16', all the notes will be played one octave lower. Also, the CH-B offers 5-1/3', as well as 16' and 8'. When you change the pitch from 8' to 5-1/3', all the notes will become perfect 5th upper.

- \* 8' is the standard pitch range.
- \* Refer to "Sound Range Diagram" on P.14 for the details.

### TONE selectors (CH-A, CH-B)

These are to select the tone color. You can mix more than two tone colors by pressing the buttons at the same time.



### DECAY TIME knob (CH-A, CH-B)

These knobs are to control the decay time. As you turn the knob clockwise, the time will become longer. When both DECAY TIME knobs of CH-A and CH-B are turned fully counterclockwise, the decay time of the CH-B will be somewhat shorter than that of the CH-A.

### BALANCE slider

This slider is used to change the volume balance of the CH-A and CH-B. Normally when this slider is set to the middle, the volume levels of the two channels are equal. If you raise the slider, the volume of the CH-B will increase. If you lower the slider, the volume of the CH-A will increase. If you set the slider to the highest level, the sound only from the CH-B will be heard. If it is set to the lowest level, the sound only from the CH-A will be heard.

### BYPASS/EQ selector (CH-A, CH-B)

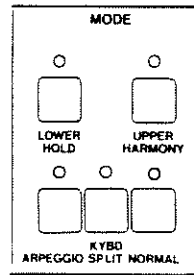
If you set the knob to EQ, you can process the generated sound still more by using the built-in Graphic Equalizer. If setting the knob to BYPASS, the sound will remain unchanged.

### GRAPHIC EQUALIZER

This is the 6-band Graphic Equalizer which can change the frequency of from 100Hz to 3.2kHz by  $\pm 15$  dB each.

- \* If you set the MONITOR slider to maximum and raise all the sliders of the Graphic Equalizer, sound distortion may be caused. In such a case, turn down the MONITOR level.

## MODE SECTION



- **NORMAL mode**

If you press the NORMAL button, the indicator lights up and the EP-6060 covers 61 keys. Up to 8 notes can be simultaneously heard.

\* In this mode, the Lower Hold and Upper Harmony functions do not work.

- **KYBD SPLIT mode**

If you press the KYBD SPLIT button, the indicator lights up and the keyboard will be split into the lower (2 octaves from the Split Point ▼) and the upper (3 octaves) sections.

In this mode, the Lower Hold and the Upper Harmony functions are available and the pitch range of the keyboard will become one octave higher (you will hear a note one octave higher than the key you are actually pressing).

\* The volume of the lower section is controlled by using the LEVEL slider in the LOWER ARPEGGIO section.

\* Up to 4 notes each will be simultaneously generated on the upper and the lower sections.

- **ARPEGGIO mode**

If you press the ARPEGGIO button, the indicator lights up and the keyboard will be split into the lower and the upper sections. Automatic Arpeggio play can be obtained on the lower section by pressing a chord.

- \* On the upper section, normal play is possible.
- \* The volume of the lower section is controlled with the LEVEL slider in the LOWER ARPEGGIO.
- \* In this mode, the Lower Hold and the Upper Harmony functions are available.
- \* Refer to "Arpeggio Section" on P.8 for the details of Automatic Arpeggio.

- **UPPER HARMONY button**

In KYBD Split or Arpeggio mode, if you press the UPPER HARMONY button, the indicator lights up and the chord tones being played on the lower section will be added to the melody being played on the upper section.

\* Each time you press the button, it will be switched on or off alternately. In Normal mode, the indicator lights up, but the Upper Harmony function does not work.

- **LOWER HOLD button**

If you press the LOWER HOLD button in either KYBD Split or Arpeggio mode, the indicator lights up and the notes you play can be memorized. Therefore, in Arpeggio mode, Arpeggio will continue to be played even after the keys are released. Also, in KYBD Split mode, the memorized chord tones of the lower section will be added to the melody being played on the upper section (this works in Arpeggio mode as well).

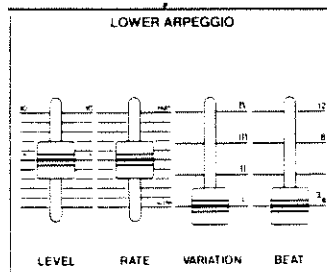
\* When you press a new key, the note previously memorized will be replaced with a new note.

\* Each time you press the button, it will be alternately switched on or off. (The indicator goes out or lights up). Even in Normal mode, the indicator lights up, but the Hold function is not obtainable.

\* It can also be switched on or off by using the Pedal Switch (Refer to "Rear Panel" on P.9).

\* The Hold function does not work on the upper section.

## ARPEGGIO SECTION



### LEVEL slider

This slider can adjust the volume of the lower section (2 octaves from the Split Mark ▼). As you raise the knob, the volume increases.  
\* This knob does not work in NORMAL mode.

### RATE slider

This slider can change the rate of Automatic Arpeggio play. As you raise the slider toward FAST, the rate will be quickened.

### VARIATION selector

This slider selects the Automatic Arpeggio pattern. In combination with the BEAT selector, many kinds of patterns can be played.

### BEAT selector

This is to select the beat of the Automatic Arpeggio play.

- 3/4 . . . . . Triplet time
- 4 . . . . . 4 beats
- 8 . . . . . 8 beats
- 12 . . . . . 12 beats

If you wish to synchronize the EP-6060 with the unit such as a Roland Rhythm Machine, choose the appropriate beat.

## TRANPOSE

Transposing to any key is possible. By using the appropriate key, you can shift the pitch of the entire keyboard. Moreover, you can play a piece with ♯'s and ♭'s in the key of C major (A minor).

### TRANPOSE



#### ■ How to transpose

While holding the TRANPOSE switch down, press any key in any octave on the upper section (3 octaves from the Split Mark ▼). When the indicator above the switch lights up, transposition is completed.

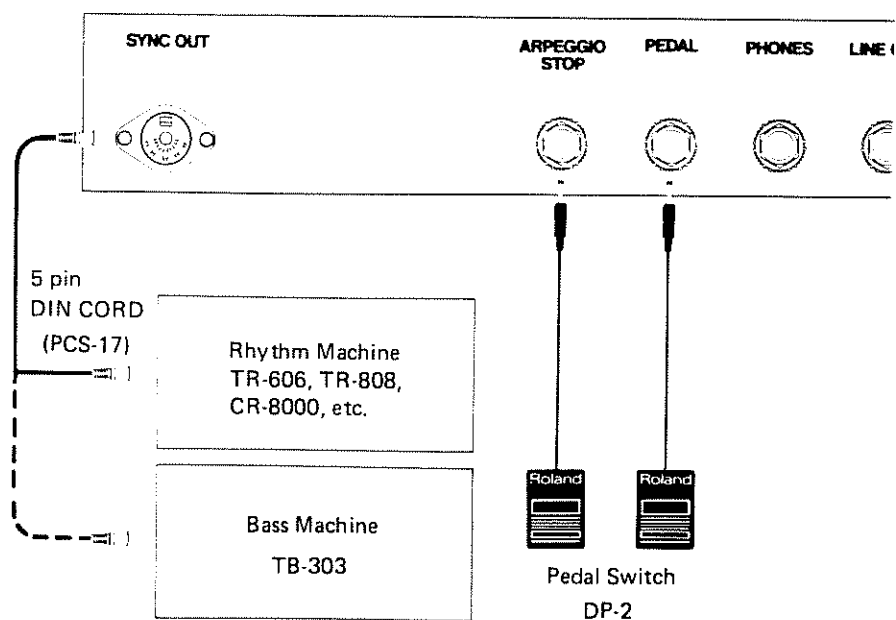
- \* The EP-6060 will then play in the key of the chosen note. Normally, C cannot be transposed (The indicator does not light up, either).
- \* If pressing the key from C<sup>♯</sup> to G, you will hear the note higher than C, and if from A<sup>♭</sup> to B, the note lower than C.

#### ■ How to return to the normal key (C key)

While holding the TRANPOSE button down, press any C note, then the indicator will go out and the EP-6060 has returned to the normal condition (the key of C).



## BACK PANEL



- **ARPEGGIO STOP**

By using the Pedal Switch, you can stop Automatic Arpeggio.

- \* When Arpeggio stops, the mode will be automatically turned to Normal.
- \* This Pedal Switch can be used to change the mode from the Split to Normal.
- \* Once the mode returned to Normal by stepping on the pedal, you cannot change the mode by re-pressing the pedal.

- **PEDAL jack**

This jack is to connect the Pedal Switch (DP-2) to.

- \* In Normal mode, you can sustain the sound by pressing the Pedal Switch. (The Pedal Switch works just like a damper pedal of a piano.)
- \* In KYBD Split or Arpeggio mode, the Lower Hold function works as well.
- \* The sustain time can be controlled with the DECAY TIME knob. As you turn the knob clockwise, the time will become longer.

- **SYNC OUT**

The EP-6060 synchronizes with the unit like a Roland Rhythm Machine or Bass Line in the tempo of the Automatic Arpeggio.

- \* Use a 5 pin DIN cord (e.g. PSC-17) for the setting ups.
- \* Set the SYNC (OUTPUT/INPUT) select switch of the rhythm machine to INPUT.
- \* Set the BEAT selector to the appropriate level for the piece you play.
- \* The CSQ-600 does not synchronize with the EP-6060.
- \* The EP-6060 starts synchronizing with the connected unit as soon as Arpeggio starts to play, and stops simultaneously as well. Turn the LOWER HOLD button on to make synchronization smoother. If you wish to stop only Arpeggio play, turn the mode to KYBD Split, and the synchronization will continue in the same tempo as the Automatic Arpeggio's. (If you turn it to Normal mode, both Arpeggio and synchronization will stop.)

## About the example patches

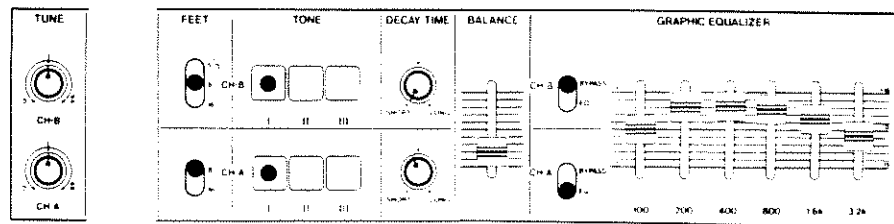
The position of each knob in the diagram is not meant to be exact, and the sound can differ drastically with any slight change of the knob positions. It also varies depending on the type of the speaker and the amplifier

used. Please adjust the settings while actually playing.

\* The "missing" knobs in the diagrams are irrelevant to the sound, and can be set to any position.

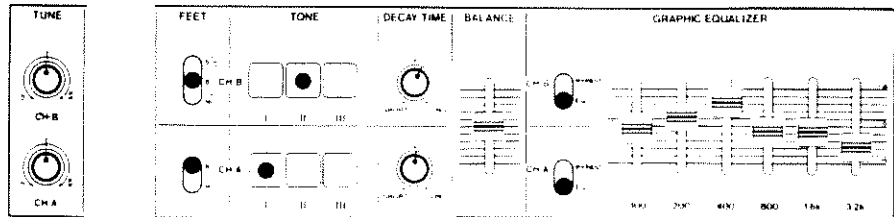
### [1] PIANO

This is an ordinary piano sound and can greatly differ depending how you set the sliders of the GRAPHIC EQUALIZER.

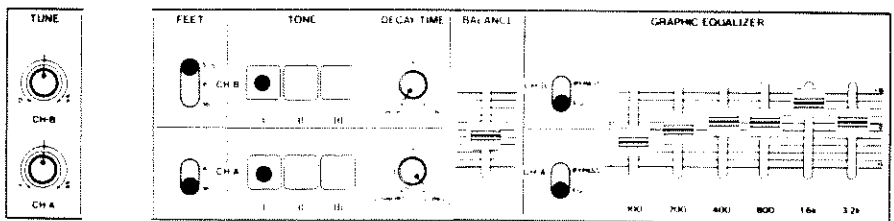


### [2] ELECTRONIC PIANO I

This is a bright electronic piano sound. It may be interesting to slightly detune one of the TUNE adjusting knobs to obtain a chorus effect.

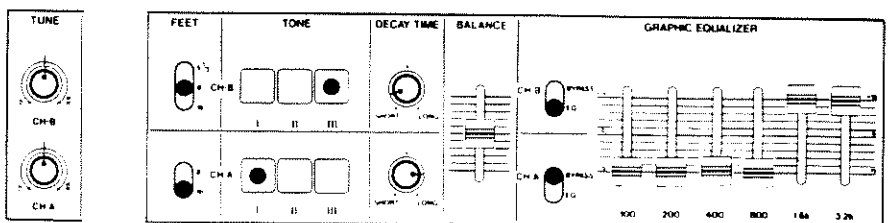


### [3] ELECTRONIC PIANO II



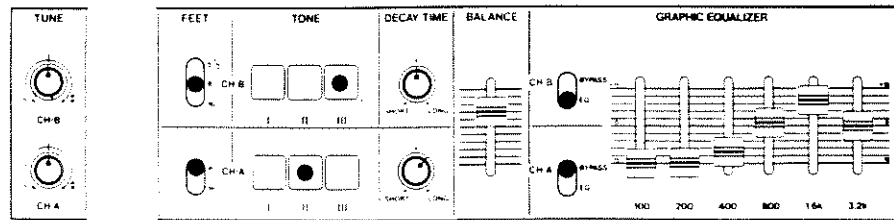
### [4] HARPSICHORD I

The sound generated in the CH-B has a short attack time and takes very important part in creating realistic harpsichord sound.



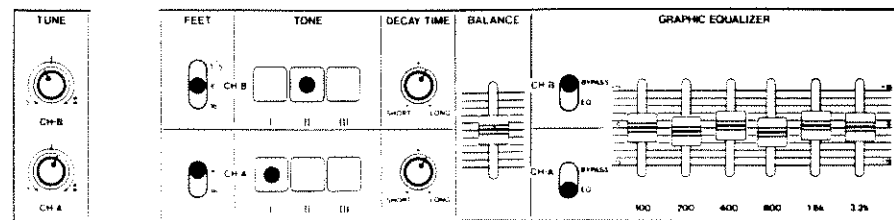
[5] HARPSICHORD II

This harpsichord sound is often heard in records and similar to that of the electronic piano.



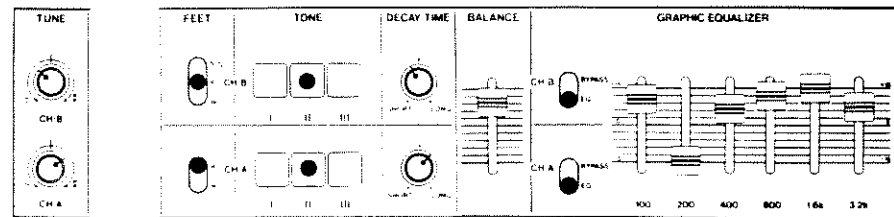
[6] HONKY-TONK PIANO I

This honky-tonk sound has a beautiful reverberation.



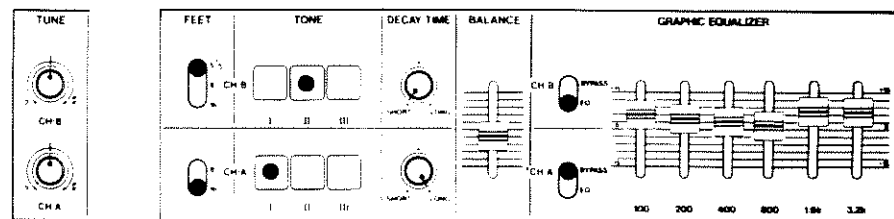
[7] HONKY-TONK PIANO II

This is a somewhat peculiar sound and can vary greatly depending how you set the TUNE adjusting knobs.



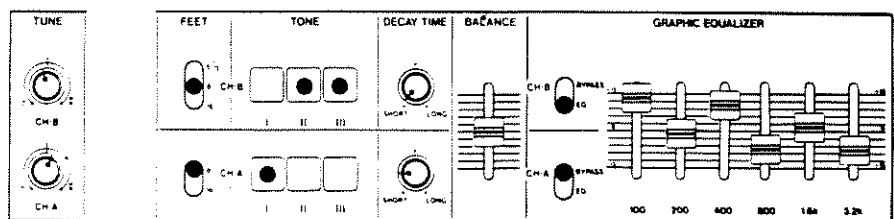
[8] COMBO ORGAN

This is an organ-like sound with a percussion effect on pressing a key.



[9] HARP

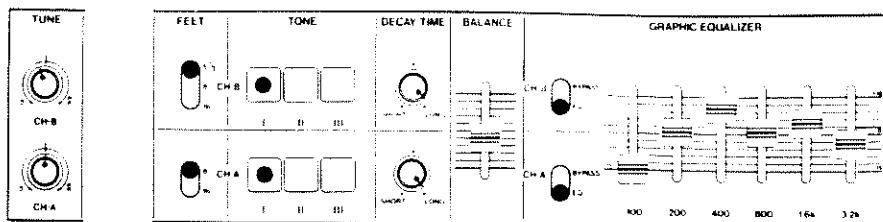
How to set the DECAY TIME is important. Using Arpeggio as an accompaniment may prove interesting. (It may be even more interesting to add sustain effect by pressing the Pedal Switch).



\* Sustain → ON

[10] CHIME

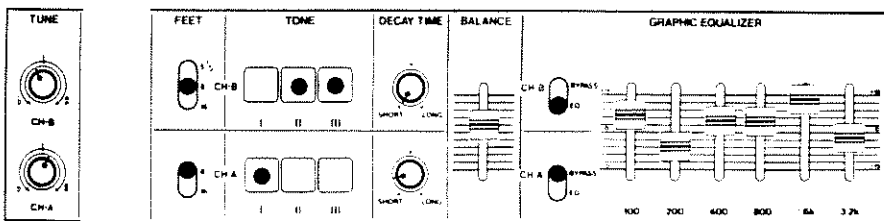
Play a single note with sustain effect by pressing the Pedal Switch.



\* Sustain → ON

[11] KOTO  
(JAPANESE HARP)

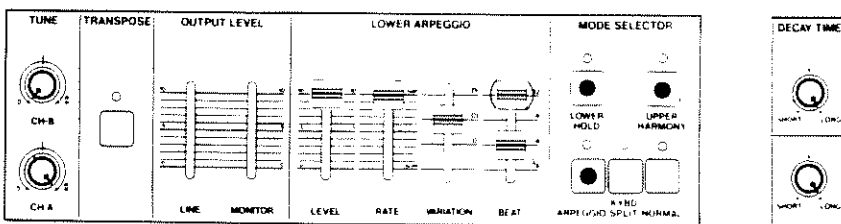
How you play is important to get a realistic Koto sound. While playing, press the Pedal Switch to obtain sustain effect.



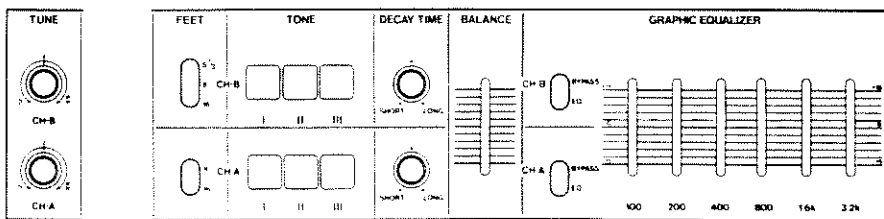
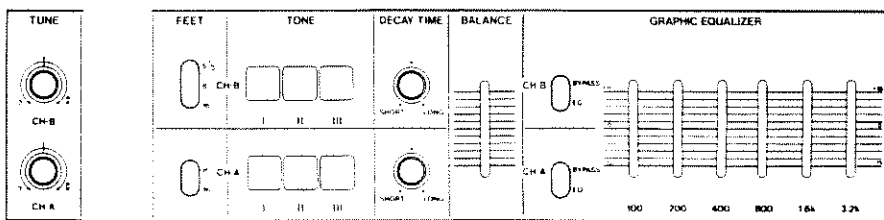
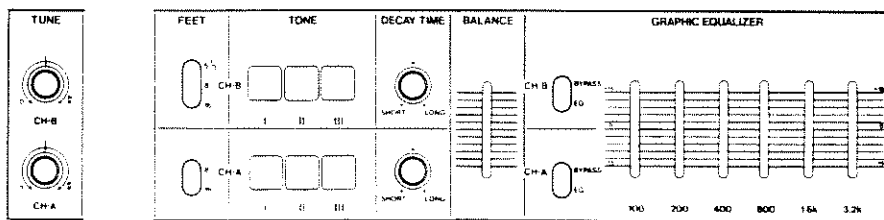
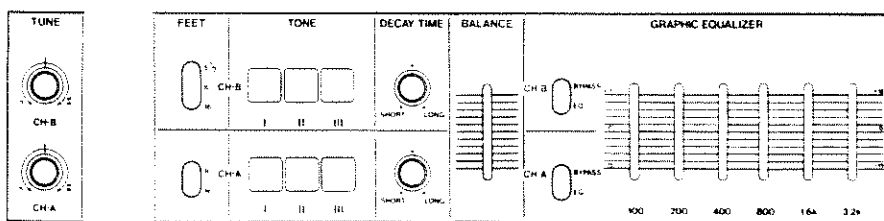
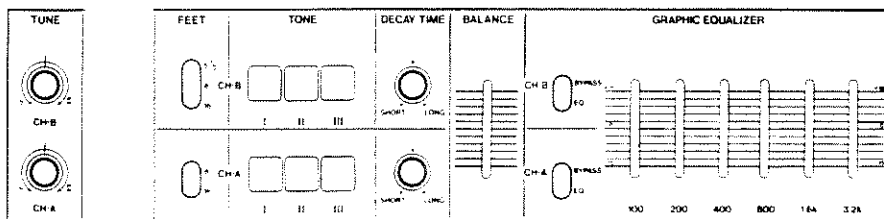
\* Sustain → ON

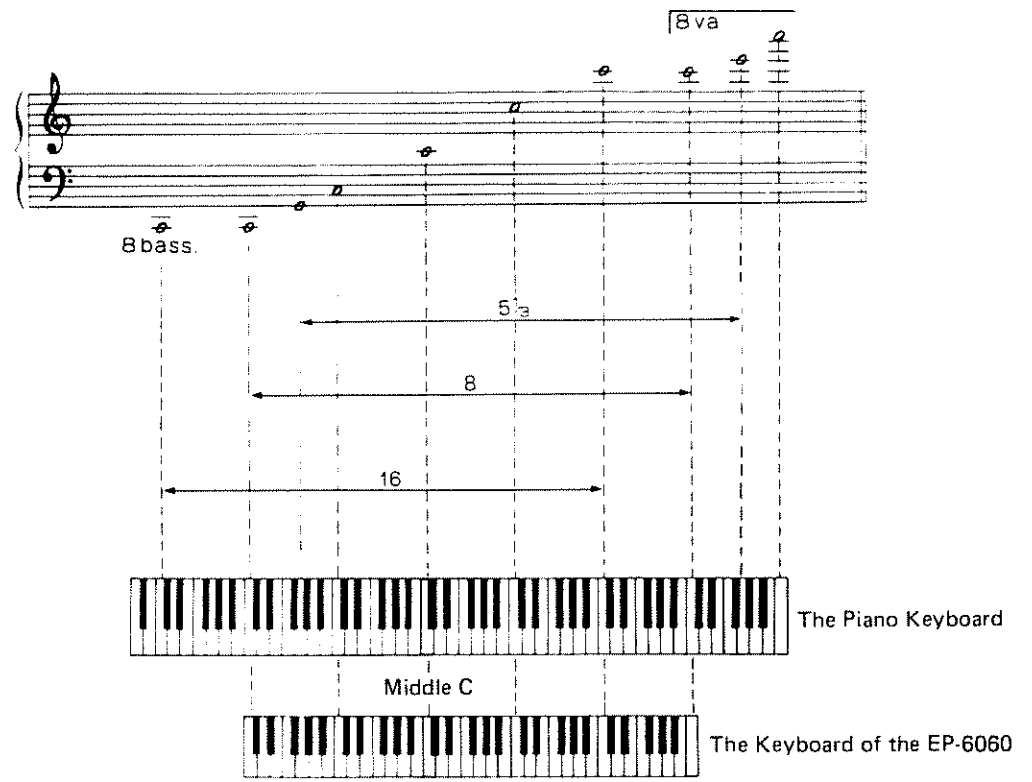
[12] EFFECT SOUND

This patch creates roaring sound. Hold any appropriate key on the lower section and adjust each knob in the sound creating section.



SOUND SYNTHESIS MEMO





▪ KEYBOARD	61 Keys 5-Octaves (C Scale)
▪ SOUND CREATING SECTION	<ul style="list-style-type: none"> <li>• TONE selectors I, II, III (CH-A, CH-B)</li> <li>• FEET selectors 16' ↔ 8' (CH-A) 16' ↔ 8' ↔ 5½' (CH-B)</li> <li>• DECAY TIME knobs SHORT ~ LONG (CH-A, CH-B)</li> <li>• BALANCE slider</li> <li>• GRAPHIC EQUALIZER (6 bands . . . . . 100, 200, 400, 800, 1.6K, 3.2K: ±15dB)</li> <li>• BYPASS/EQ selector BYPASS ↔ EQ (CH-A, CH-B)</li> </ul>
▪ MODE SECTION	<ul style="list-style-type: none"> <li>• ARPEGGIO button</li> <li>• KYBD SPLIT button</li> <li>• NORMAL button</li> <li>• LOWER HOLD button</li> <li>• UPPER HARMONY button</li> </ul>
▪ ARPEGGIO SECTION	<ul style="list-style-type: none"> <li>• LEVEL slider</li> <li>• RATE slider SLOW ~FAST</li> <li>• VARIATION selector I, II, III, IV</li> <li>• BEAT selector 3/4, 4, 8, 12</li> </ul>
▪ OTHERS	<ul style="list-style-type: none"> <li>• TUNE knob ±50 cent . . . Center A = 442Hz (CH-A, CH-B)</li> <li>• TRANSPOSE button</li> <li>• LINE slider</li> <li>• MONITOR slider</li> <li>• Monitor Speaker 12 x 8 cm (Output 12W)</li> <li>• POWER switch</li> </ul>
▪ BACK PANEL	<ul style="list-style-type: none"> <li>• LINE OUT jack</li> <li>• PHONES jack</li> <li>• ARPEGGIO STOP jack</li> <li>• SYNC OUT jack (DIN)</li> <li>• Line Out LEVEL switch 0 ↔ -15 ↔ -30</li> </ul>
▪ POWER CONSUMPTION	18W
▪ DIMENSIONS	912(W) x 115(H) x 325(D) mm / 35¾(W) x 4½(H) x 12¾(D) inches
▪ WEIGHT	9.5 kg / 21 lb.
▪ ACCESSORIES	<ul style="list-style-type: none"> <li>• 2.5m connecting cord (LP-25) x 1</li> <li>• Pedal Switch (DP-2) x 1</li> <li>• Music Rack x 1</li> </ul>

\* Specifications are subject to change without notice.

## Options

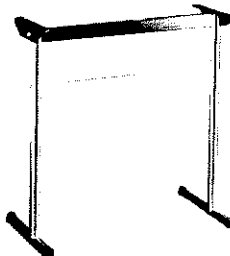
Pedal Switch  
DP-2



Stereo Headphones  
RH-10



Keyboard Stand  
KS-2



Carrying Case  
(orange, pink, blue, beige)  
SC-60

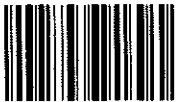


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