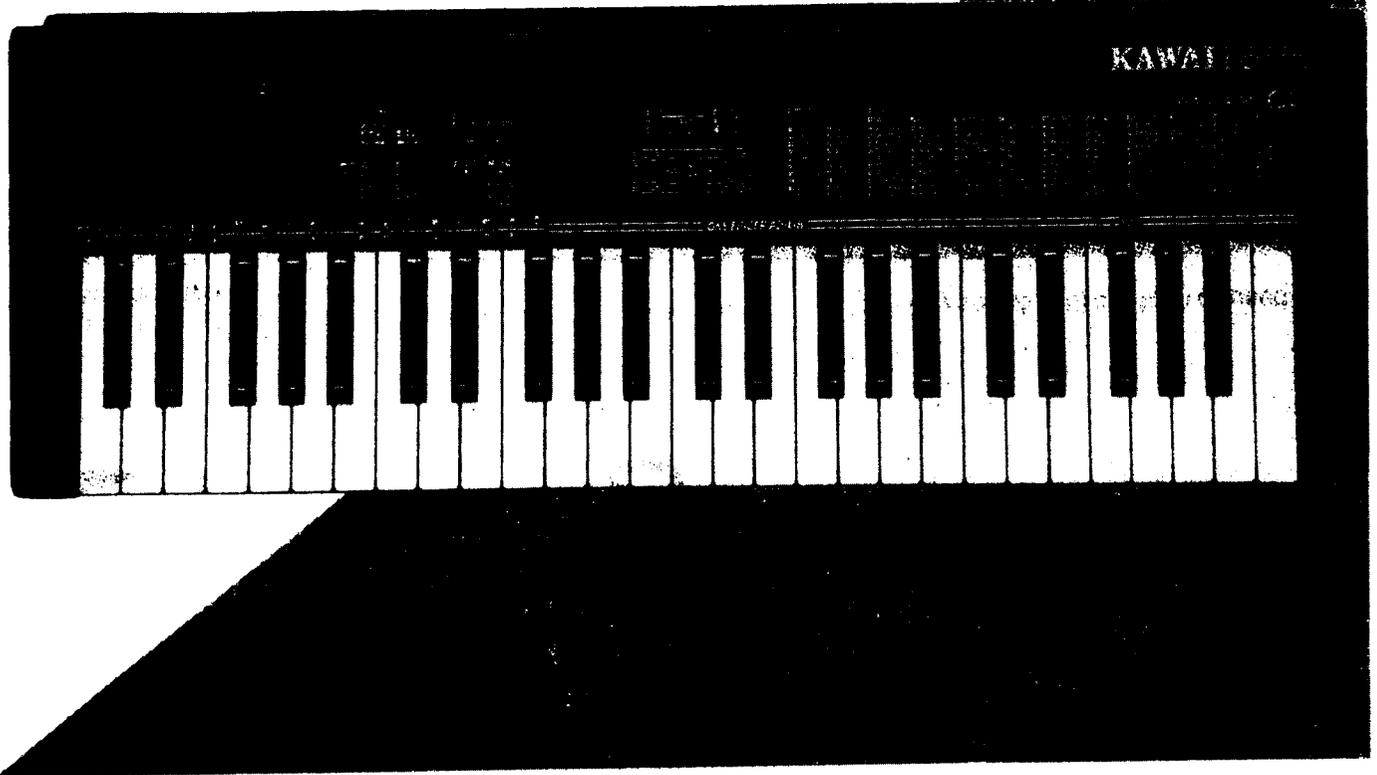


# KAWAI FS610 Owner's Manual



## Cautions

- \* This instrument contains precision electronic components. Do not subject it to severe shocks or use it in an area where it is exposed to direct sunlight, high temperature, high humidity, or dust.
- \* Be careful not to allow objects such as pins or coins to fall into the spaces between the keys or switches.
- \* Never take the FS610 apart, as it may result in damage to the instrument or electric shock.

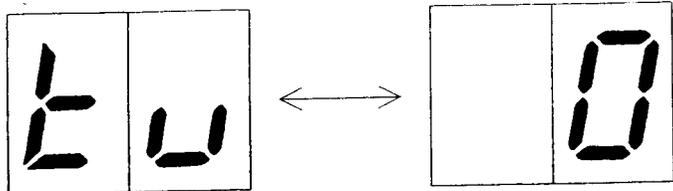
Handwritten mark or signature.

# SYSTEM MODE

The TUNE (fine-tuning) and TRANSPOSE (change pitch in half-tone steps) settings can be changed in the SYSTEM MODE.

## Entering the SYSTEM MODE:

If rhythm, automatic accompaniment, ONE FINGER AD-LIB, or recording are not activated, you can enter the SYSTEM MODE by pressing The sound selector (4) and the RHYTHM selector (5) at the same time. (The following will be shown on the two-digit LED display.)



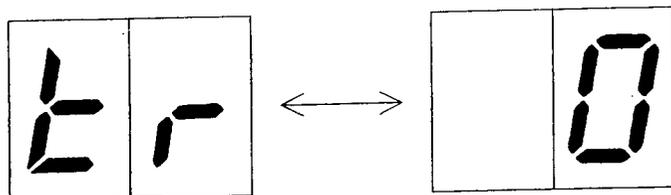
A number and "tu" (short for "TUNE") will appear alternately on the display. The number is the currently set TUNE value (-8 to 7).

### 1) TUNE

Pressing switch (C) raises the pitch slightly, while pressing switch (D) lowers it by a corresponding amount. Pressing switch (A) raises the pitch by a quarter tone, and switch (B) lowers it the same amount.

### 2) TRANSPOSE

Pressing the rhythm SYNC/FILL IN switch (9) allows the four-way selector (6) to be used to set the TRANSPOSE value. (The following will be shown on the two-digit LED display.) Pressing switch (C) raises the pitch by a semitone, while pressing switch (D) lowers it by a corresponding amount. Pressing switch (A) raises the pitch to the upper limit, and switch (B) takes it to the lower limit.



A number and "tr" (short for "TRANSPOSE") will appear alternately on the display. The number is the currently set TRANSPOSE value (-6 to 5).

To reset the tuning, press the rhythm INTRO/ENDING switch (7). The four-way selector (6) can then be used again to set the TUNE value.

### \* Escaping from SYSTEM MODE

The SYSTEM MODE will be canceled if you press any switch other than those used in the SYSTEM MODE (SYNC/FILL IN (8), INTRO/ENDING (7) or the four-way cursor (6)).

# NAMES OF PARTS AND BASIC OPERATIONS — 1

**(1) POWER switch**

**(2) MASTER VOLUME**

These adjust the volume louder or softer. The volume returns to the original setting when both the left and right switches are pressed together.

**(3) LOWER MODE**

These switches allow the lower section of the keyboards to alternate between OFF (All keys play melody tones), ON (Lower keys control automatic accompaniment), and DRUM (Lower keys play percussion sounds).  
(Refer to the reverse side for details.)

**(4) SOUND selector**

To select sounds, press this switch and use the FOUR-WAY selector (6) to select the number matching your desired sound. The FOUR-WAY selector can also be used to select sounds immediately, after turning on the power, ... without pressing the SOUND selector.

**(5) RHYTHM selector**

To select rhythms, press this switch and choose the number matching the desired rhythm with the four-way selector (6). (Indicator 2 will light.)

**(6) FOUR-WAY selector**

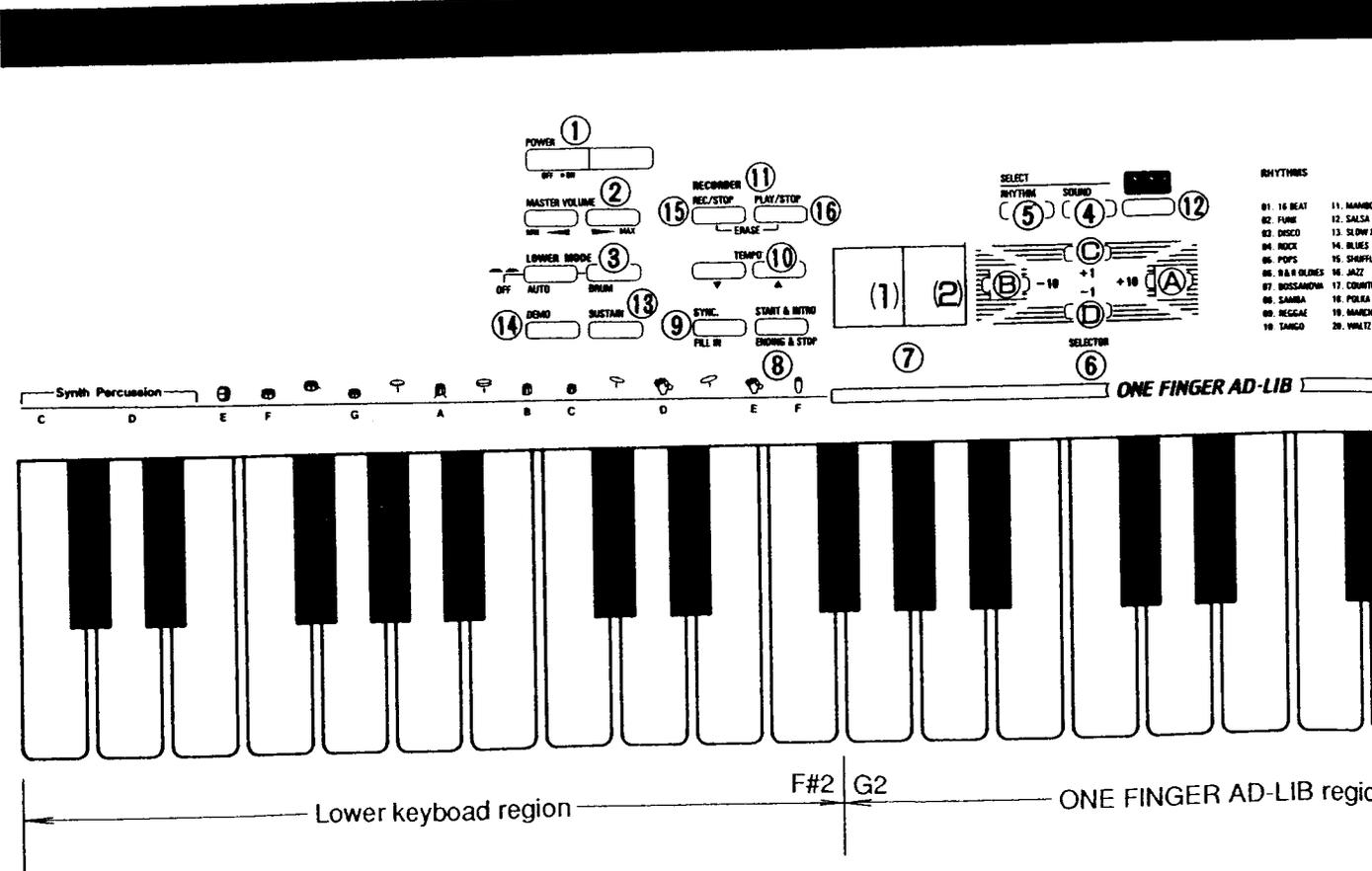
This is used to select numbers corresponding to sounds and rhythms. Switches (A) and (B) are used to increment or decrement the number by ten units, and (C) and (D) to increment or decrement by one unit.

**(7) Two-digit LED display**

This displays the number of the currently selected tone or rhythm. Indicator (2) lights when a rhythm number is displayed.

**(8) INTRO/ENDING**

If the rhythm function has not already been activated, this switch initiates a one-bar introduction and then starts the rhythm pattern. If the rhythm function is already in progress, this switch will play ending pattern and then stop the rhythm function. And if this switch is pressed two times continuously, the rhythm function stops immediately.



| RHYTHMS           |             |
|-------------------|-------------|
| 01. 16 BEAT       | 11. MARCH   |
| 02. FUNK          | 12. SALSA   |
| 03. DISCO         | 13. SLOW    |
| 04. ROCK          | 14. BLUES   |
| 05. POP           | 15. SHUFFLE |
| 06. B.B. & OLIVES | 16. JAZZ    |
| 07. BOSSANOVA     | 17. COUNTRY |
| 08. SAMBA         | 18. POLKA   |
| 09. REGGAE        | 19. MARCH   |
| 10. TANGO         | 20. WALTZ   |

### (9) SYNC/FILL IN

After pressing this switch, rhythm accompaniment (SYNC) will begin when any note in the automatic accompaniment section of the keyboard is pressed. (If the LOWER MODE is set to AUTO, then full automatic accompaniment will also begin.) If the rhythm function is already activated when this switch is pressed, a FILL IN pattern will be played.

### (10) TEMPO controls

These adjust the tempo of rhythms and automatic accompaniments. Press the right switch for a faster tempo and the left switch for a slower one. Holding down either switch will vary the tempo continuously. Pressing both switches at the same time establish a standard tempo for the currently selected rhythm.

\* Tempo indicator (indicator (1))

This flashes with each beat to indicate the currently set tempo.

### (11) RECORDER

Refer to the reverse side for details.

### (12) ONE FINGER AD-LIB™

When this switch is ON, a ONE-FINGER AD-LIB accompaniment will start when any key in the ONE-FINGER AD-LIB region of the keyboard is pressed. (Refer to the reverse side for details.)

### (13) SUSTAIN

Pressing this switch activates SUSTAIN for the MELODY sounds. Pressing the switch a second time deactivates SUSTAIN.

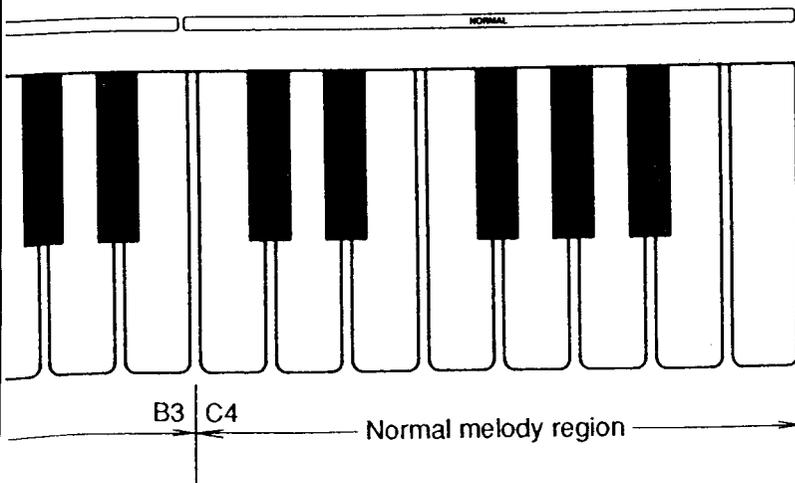
### (14) DEMO

This switch activates the built-in demonstration song. Pressing the switch a second time stops play.

## KAWAI PERSONAL KEYBOARD FS610

100 SOUND LIBRARY 

| SOUNDS            | PIANO             | CLAV. BRASS    | ORGAN            | GUITAR, BASS     | WIND, SOLO     | SYNTHESIZER     | BELLS             | PERCUSSION       | SPLIT                |
|-------------------|-------------------|----------------|------------------|------------------|----------------|-----------------|-------------------|------------------|----------------------|
| 01 STRING PAD     | 11 PIANO 1        | 21 HARD CLAV   | 31 JAZZ ORGAN    | 41 A. GUITAR     | 51 FLUTE       | 61 SYN VOICE    | 71 TUBULAR BELL   | 81 HARD Mallet   | 91 STRINGS/RECORDER  |
| 02 CH STRINGS     | 12 CH PIANO       | 22 TINE CLAV   | 32 LESLIE 1      | 42 CH GUITAR     | 52 RECORDER    | 62 SYN E. PIANO | 72 CH TUBE BELL   | 82 SOFT Mallet   | 92 ORGAN/PIANO       |
| 03 PIZZICATO      | 13 PIANO 2        | 23 CH CLAV     | 33 TIRE ORGAN    | 43 JAZZ GUITAR   | 53 CH RECORDER | 63 SYN STRINGS  | 73 ORIENT BELL    | 83 STEEL DRUM    | 93 A. BASS/PIANO     |
| 04 CH PEZ         | 14 MONEYTONE      | 24 FUZZ - CLAV | 34 DRUMBAR 1     | 44 E. GUITAR     | 54 CLARINET 1  | 64 SYN SHOT 1   | 74 CH ORIENT BELL | 84 CH STEEL DRUM | 94 F. BASS/CLAV      |
| 05 CELLO          | 15 E. PIANO       | 25 TRUMPET     | 35 DRUMBAR 2     | 45 STR. - GUITAR | 55 CLARINET 2  | 65 SYN SHOT 2   | 75 SMALL BELL     | 85 GLOCKER       | 95 ORGAN/SAX         |
| 06 VIOLIN         | 16 CH E. PIANO    | 26 CH TRUMPET  | 36 LESLIE 2      | 46 A. BASS       | 56 DRUM        | 66 SYN BEAT     | 76 GLASS MARP     | 86 CH GLOCKER    | 96 A. BASS/ORGAN     |
| 07 ORCHESTRA      | 17 HARP           | 27 FRI BRASS 1 | 37 BOX ORGAN     | 47 E. BASS       | 57 BAGPIPES    | 67 SEQUENCE     | 77 WINE GLASS     | 87 XYLOPHONE     | 97 E. BASS/E. PIANO  |
| 08 SLOW STRINGS   | 18 STR - E. PIANO | 28 FRI BRASS 2 | 38 PIPE ORGAN    | 48 FLNK BASS     | 58 HARMONICA   | 68 HARP         | 78 COSMIC         | 88 GAMELAN       | 98 A. BASS/A. GUITAR |
| 09 STR - VOICE    | 19 STR - E. PIANO | 29 STR - BRASS | 39 X. FADE ORGAN | 49 ROCK BASS     | 59 SQUARE SOLO | 69 MARJO        | 79 COSMO - STRING | 89 VIBE          | 99 E. BASS/E. GUITAR |
| 10 BELL - STRINGS | 20 VIBE - PIANO   | 30 SAX         | 40 ACCORDION     | 50 CLAV - BASS   | 60 GLASS SOLO  | 70 KOTO         | 80 SLOW COSMIC    | 90 CH VIB        | 99 STRINGS/VIB       |



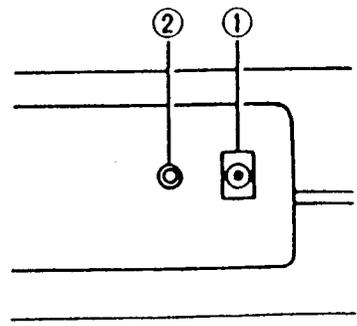
## REAR PANEL

### (1) DC IN jack

This is used for connecting an AC adapter (PS121, PS123 or PS092, (only in U.S.) sold separately).

### (2) STEREO PHONES jack

Plugging in headphones automatically turns off output to the speakers. This jack can also be connected to a stereo system or cassette recorder. (Refer to "Power Source and Connection" section of this manual for details on connection.)



# NAMES OF PARTS AND BASIC OPERATIONS — 2

## Keyboard Layout

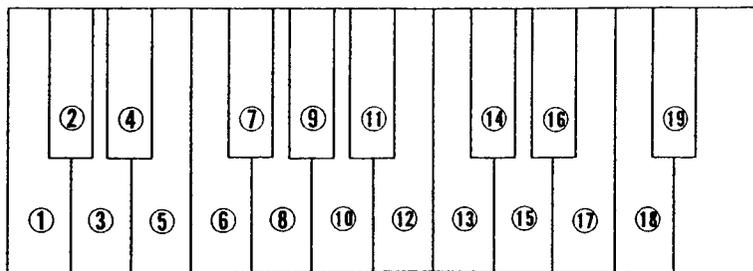
### LOWER MODE and the Lower Keyboard Region

- 1) When both switches in the LOWER MODE (3) section are pressed simultaneously, the LOWER MODE is set in the "OFF" position. With LOWER MODE "OFF", the entire 49-note keyboard plays the MELODY sound that you select. Up to ten notes can be played simultaneously.
- 2) When the "AUTO" switch in the LOWER MODE (3) section is pressed, two different functions can be utilized:
  - a) If the rhythm function is already activated, the Lower Keyboard is set for "chord sensing." Automatic accompaniments are played according to the chord form you select. Chords which can be used are shown below.
  - b) If the rhythm function is deactivated, one-finger bass/chord sounds are played when you touch the Lower Keyboard.

### Playable Chords (for C)

|                            |  |        |                  |        |        |
|----------------------------|--|--------|------------------|--------|--------|
| C                          |  | — or — |                  | — or — |        |
| C7                         |  | — or — |                  | — or — |        |
| Cm                         |  | — or — |                  |        |        |
| Cm7                        |  | — or — |                  |        |        |
| Cmaj7<br>(CΔ7)             |  | — or — |                  |        |        |
| Caug<br>(C <sup>+5</sup> ) |  |        | C <sup>-5</sup>  |        | Csus4  |
|                            |  |        |                  |        |        |
| Cm7 <sup>-5</sup>          |  |        | CmM7<br>(CmΔ7)   |        | C7sus4 |
|                            |  |        |                  |        |        |
| Cdim                       |  |        | C9               |        | Cm9    |
|                            |  |        |                  |        |        |
| C <sup>13</sup>            |  |        | C <sup>-13</sup> |        |        |
|                            |  |        |                  |        |        |

- 3) When the "DRUM" switch in the LOWER MODE (3) section is pressed, each key in the Lower Keyboard will play the percussion instrument assigned to that key. The instrument assignments are shown in picture form above each key and are shown below in chart form.



C1

| Key No. | Instrument               | Key No. | Instrument   |
|---------|--------------------------|---------|--------------|
| 1       | SYNTHESIZER PERCUSSION 1 | 11      | HI HAT OPEN  |
| 2       | SYNTHESIZER PERCUSSION 2 | 12      | MID TOM      |
| 3       | SYNTHESIZER PERCUSSION 3 | 13      | HI TOM       |
| 4       | SYNTHESIZER PERCUSSION 4 | 14      | CRASH CYMBAL |
| 5       | BASS DRUM                | 15      | LO CLAPS     |
| 6       | LO SNARE                 | 16      | RIDE CYMBAL  |
| 7       | RIM SHOT                 | 17      | HI CLAPS     |
| 8       | HI SNARE                 | 18      | LO CONGA     |
| 9       | HI HAT CLOSED            | 19      | HI CONGA     |
| 10      | LO TOM                   |         |              |

\* ONE FINGER AD-LIB Region

Each key in the ONE FINGER AD-LIB region of the keyboard generates a different AD-LIB phrase when the ONE FINGER AD-LIB switch (12) in "ON." Your selected MELODY sound is played when the switch is "OFF."

\* NORMAL Melody Region

The selected MELODY sound is played at all times in this region allow you to alternate between ONE FINGER AD-LIB phrases and manually played melodies.

## ■ ONE FINGER AD-LIB Keyboard

Each key generates a different AD LIB phrase when the ONE FINGER AD-LIB switch (12) is "ON." The MELODY tone is played when the switch is "OFF."

## ■ MELODY Keyboard

The selected MELODY tone is played. Up to ten tones can be output simultaneously (output is limited to five tones or two tones in some cases).

## ■ ONE FINGER AD-LIB Operation

In addition to the automatic accompaniment function, the KAWAI FS610 is equipped with a ONE FINGER AD-LIB function for automatic MELODY playing. Let's actually start up the ONE FINGER AD-LIB function to see how it works.

- 1) Set the LOWER MODE switch (3) to "OFF " by pressing both switches simultaneously.
- 2) Press the ONE FINGER AD-LIB switch (12) "ON".
- 3) Press any one of the keys in the ONE FINGER AD-LIB region of the keyboard. Each key pressed will play a different phrase.
- 4) Next, press the "AUTO" switch in the LOWER MODE section (3).
- 5) Press the START & INTRO switch (8). Rhythm and automatic accompaniment will begin with a complete chord progression.
- 6) Press various ONE FINGER AD-LIB keys. The different phrases for each key pressed will change automatically according to the preset chord progression.
- 7) Now, select a different rhythm with the RHYTHM selector (5) and the four-way selector key (6). Automatic accompaniment with a different chord progression will begin. Now, when the ONE FINGER AD-LIB keys are pressed, different AD-LIB phrases will be heard.

\*1: If you would like to develop chords on your own, press the automatic accompaniment keys for the chord form you desire. Automatic chord progression will stop and your left hand can control the automatic accompaniments. ONE FINGER AD-LIB phrases will also change according to the chords you select.

\*2: The KAWAI FS610 is equipped with chord progressions and ONE FINGER AD-LIB phrases for each rhythm pattern.

\*3: If you switch sounds with the SOUNDselector (4) during ONE FINGER AD-LIB playing, all sounds produced by the ONE FINGER AD-LIB and NORMAL Melody Keys will use the new sound.

## ■ Recording Function

### \* Recording and playback

- 1) Press the REC/STOP switch (15). (A metronome sound will be heard.)
- 2) Begin playing.  
All playing will be recorded automatic accompaniments, ONE FINGER AD-LIB phrases, manual playing, DRUM (hand percussion), etc. When finished with the song, press the REC/STOP switch (15) again to stop recording. Press the PLAY/STOP switch (16) to hear the song just recorded.

### \* Erasing the recorded song

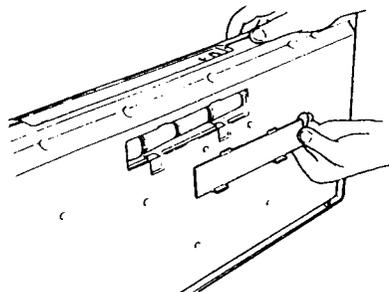
When a song has been recorded, no new songs can be recorded until the old one is erased. To do this, press the REC/STOP switch (15) and the PLAY/STOP switch (16) simultaneously.

# POWER SOURCE AND CONNECTION

This instrument can run on batteries or household current.

## ■ Battery Operation

Remove the cover from the battery compartment under the instrument and insert six "C" batteries, making sure that the batteries face in the right direction.



- Notes
- \* If the sound fades or quality deteriorates during playing, it is time to change batteries. (Failure to change batteries may lead to other complications.)
  - \* Always change batteries as a set. Never change fewer than six at a time or mix batteries of different types.
  - \* Always remove the batteries when not using the instrument for an extended period.

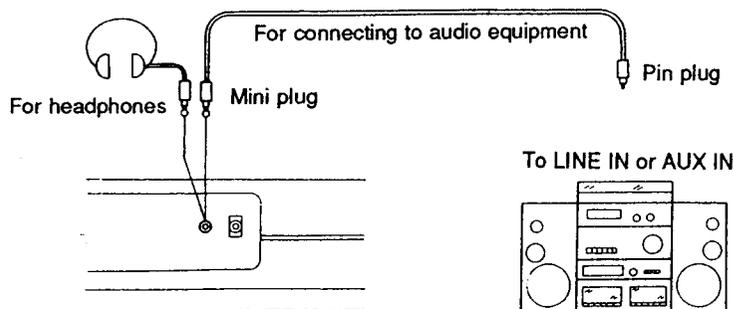
## • AC Operation

The instrument can run on household current when an AC adaptor (PS121, PS123 or PS092 (only in U.S.)) is used.

- \* Be sure to turn off the instrument before connecting the adaptor.

## • Line Output

To listen to keyboard output on audio equipment, purchase the appropriate connector cord (with a mini plug on one end and a pin plug on the other) and connect it as shown below. Connector cords can be obtained at your local electronics store.



# SPECIFICATIONS

|                 |   |                              |                                       |
|-----------------|---|------------------------------|---------------------------------------|
|                 | FS610   | Other switches               | DEMO START/STOP,<br>ONE FINGER AD-LIB |
| Keys            | 49  | Speaker                      | 10cm X 1                              |
| Tones           | 100   | Jacks                        | Headphones (mini jack)<br>DC IN       |
| Rhythm patterns | 20  | Dimensions<br>(W X D X H mm) | 670 X 273.5 X 82                      |
| Effectors       | SUSTAIN ON/OFF  | Weight (kg)                  | 3.3                                   |
| Rhythm control  | START & INTRO/ENDING & STOP<br>Tempo control switches | Accessories                  | Six "C" batteries, Music rest         |
| Recorder        | REC/STOP, PLAY/STOP                                   |                              |                                       |