

KAWAI ELECTRONIC KEYBOARD X120 X130

OWNER'S MANUAL

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KAWAI X120/130 Owner's Manual

Thank you for your purchase of a KAWAI X120/130 Personal Keyboard.

This owner's manual contains valuable information that will help you make full use of this instrument's many capability. Read it carefully and keep it handy for future reference.

Have fun learning to play your X120/130!

Important Safety Instructions

- Read Instructions – This Owner's Manual contains valuable information that will help you make full use of the instrument's many capabilities. All the safety and operating instructions should be read before the product is operated.
- Retain Instructions – The safety and operating instructions should be retained for future reference.
- Heed Warnings – All warnings on the product and in the operating instructions should be adhered to.
- Follow Instructions – All operating instructions should be followed.



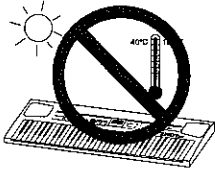
WARNINGS



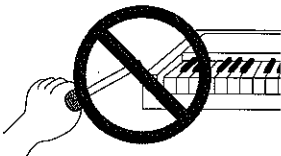
- The instrument should not be operated with wet hands that could result in electric shock or other hazards.
- Object and Liquid Entry – Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product. The product should not be operated or stored near water or other moisture – for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; near a swimming pool, etc.
- This product may be capable of producing sound levels that could cause permanent hearing loss when used in combination with other products like speakers or headphones. Do not operate for a long period of time at a high volume level, especially if you are using headphones or earphones. If you experience any hearing loss or ringing in the ears, you should consult a hearing specialist.



ATTENTION



Servicing



- Protect the product from direct sunlight, extremes in temperature (such as inside your car on a warm day) or humidity, dusty environment, or vibration (especially during transportation).
- The instrument should be kept away from hot, dry places (such as near a radiator or heater)
- Protect the instrument from physical shocks and impact.
- Always turn down the volume(s) of all instruments (such as guitar or keyboard) before connecting or disconnecting to the instrument.
- Accessories – Do not place this instrument on an unstable or slant cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Besides, the unit may malfunction. Use only with a cart, stand, tripod, bracket, or table recommended by KAWAI, or sold with the product.
- Servicing – Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage. Refer all servicing to qualified service personnel. Do not disassemble or attempt to modify the instrument.
- Damage Requiring Service – Unplug this product and AC adaptor from the wall outlet immediately and refer servicing to qualified service personnel under the following conditions:
 - a) When the AC adaptor's cable or plug is damaged.
 - b) If liquid has been spilled, or objects have been fallen into the product.
 - c) If the product has been exposed to rain or water.
 - d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by this manual as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
 - e) If the product has been dropped or damaged in any way.
 - f) When the product or AC adaptor exhibit a distinct change in performance - this indicates a need for service.
- Replacement Parts – When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitution may result in fire, electric shock, or other hazards.

Power Supply

- Use only a Kawai AC adaptor or equivalent shipped with the instrument and connect it only to a power supply with a voltage within the limits stated on the ratings plate.
- When the product and/or AC adaptor are left unattended and unused for long period of time, unplug it from the wall outlet to prevent damage to them due to lightning and power-line surges.
- Power Cord Protection – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, receptacles, and the point where they exit from the product.
- Do not connect to the same circuit as a heavy load or equipment that generates line noise.

Cleaning

- Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning. Clean the instrument with a soft cloth, a mild detergent, and lukewarm water. Never use harsh or abrasive cleansers or organic solvents.

Before Playing The X120/130

Connecting the Power Supply

To Insert Batteries

Your keyboard can use either your home AC power outlet or dry cell batteries as a power source.

1. Turn the unit over and remove the battery cover.
2. Insert six Size "C" dry cell batteries. Be sure they are aligned in the proper direction.
3. Replace the battery cover.

NOTE

- As the batteries begin to run down, the volume of the keyboard will decrease and the sound quality will begin to change or deteriorate. Or the unit may begin to malfunction. At that time, you should replace all six batteries.
- Do not mix battery type (or new batteries with old ones), as this may cause problems such as battery fluid leakage.
- Remove the batteries when not using the keyboard for long periods of time.

To Use An AC Power Outlet

Connect a PS-123 or PS-102 adaptor (available separately) to the adaptor terminal on the rear panel of the keyboard. Then, connect the adaptor to a wall socket.

We recommend that you use a KAWAI AC adaptor with the X120/130. If you decide to use a universal adaptor from another manufacturer, please be sure of the following.

1. The voltage selector should be set at 10 or 12 volts.
2. The polarity selector must be set to "negative" (-) polarity, otherwise the keyboard will not operate (or will run on batteries until the batteries are drained).
3. The adaptor must be rated at 0.5 Amp (A) or higher.

Connecting the Keyboard to an Audio Device

To enjoy listening to the sound of your X120/130 through your amplified home stereo system or other external amplifier, purchase an adaptor plug at an electrical goods store or audio specialty shop. Use the cord or adaptor plug to connect the keyboard's STEREO PHONES jack to the LINE IN or AUX IN jacks on your stereo amplifier or powered receiver.

Be sure you set your X120/130 at a moderate volume level. High Volume output can damage your external amplifier or speakers.

About the Keyboard's Internal Memory (Only X130)

The contents of the keyboard's internal memory (such as recorder data) will be kept stored for up to five years by a back-up battery built into the unit.

Note that if you turn the power switch ON while holding down keys C and E at the left end of the keyboard, all of the contents of the memory will be erased and the keyboard's factory settings will be restored. (This is known as the "factory reset" procedure.)

You cannot back up the internal memory once the back-up battery has run out of power.

So, we recommend that you save your important data into an external sequencer (see "Using the MIDI Functions" section).

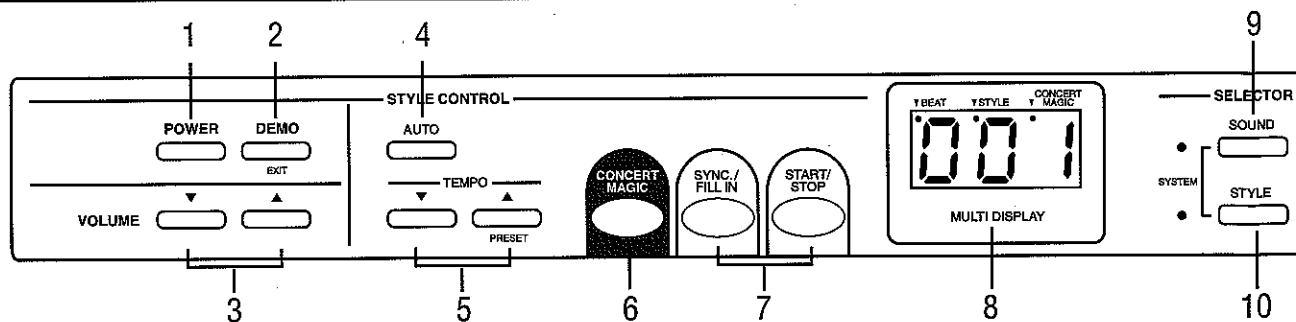
For a replacement back-up battery, contact an authorized KAWAI dealer.

Protective Plastic Covering On Front Panel

Your keyboard comes equipped with a thin plastic covering over the front panel designed to protect the panel from dust and scratches. If you want to remove this covering, carefully use a fingernail to lift up one of the corners.

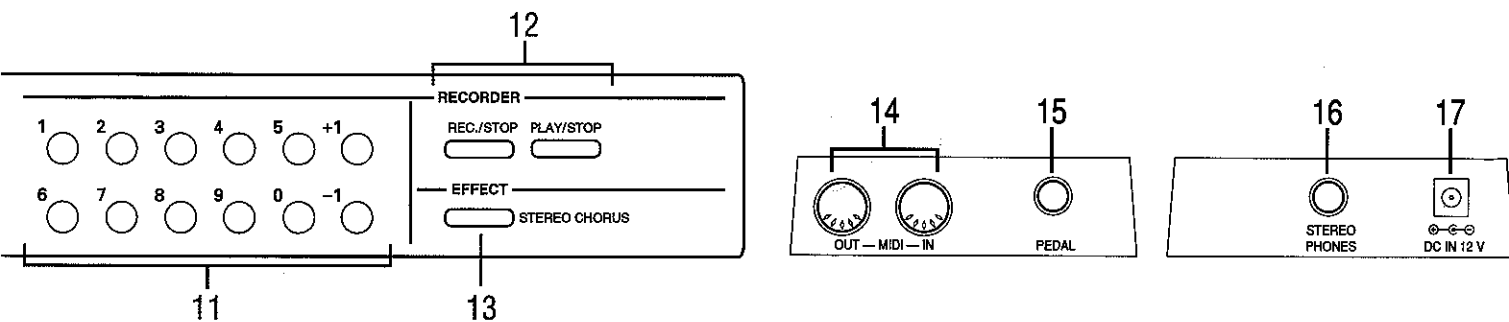
Then, slowly peel off the covering and discard it.

Overall Diagram and Explanation



Operation Panel

- (1) **POWER** button
The POWER button turns the keyboard's power on and off.
- (2) **DEMO** button
Pressing this button starts to play the two built-in demo songs. (You can also select a demo song by pressing +1/-1 buttons.) Press it again at any time to stop the demo song.
- (3) **MASTER VOLUME** buttons
Used to control overall volume of all notes played on the keyboard.
- (4) **AUTO** button
Used to turn the Auto-Accompaniment on and off.
- (5) **TEMPO** buttons
Used to control changes in Auto-Accompaniment tempo.
- (6) **CONCERT MAGIC** button
Used to turn the CONCERT MAGIC function (see page 10) on and off.
- (7) **Accompaniment Control** buttons
Used to control the "FILL-INs", "ENDINGs", and "BASIC Patterns" of Auto-Accompaniment.
The "SYNC/FILL-IN" button lets you start your song at the exact moment you press a key in the lower part of the keyboard.
- (8) **Display** (only X130)
Shows which sound/style/function is currently selected.
- (9) **SOUND** button
Used when selecting sounds.
- (10) **STYLE** button
Used when selecting from among the 30 Accompaniment Styles and 30 CONCERT MAGIC songs stored in the keyboard's memory.
- (11) **SELECTOR** buttons
 - a) **Numeric buttons** (Ten keys)
Used to enter the numbers.
 - b) **-1 / +1** buttons
Used to increase or decrease the numbers by a value of 1.
- (12) **RECORDER** Section (only X130)
Used to record the songs you write or perform on the keyboard.



Rear Panel

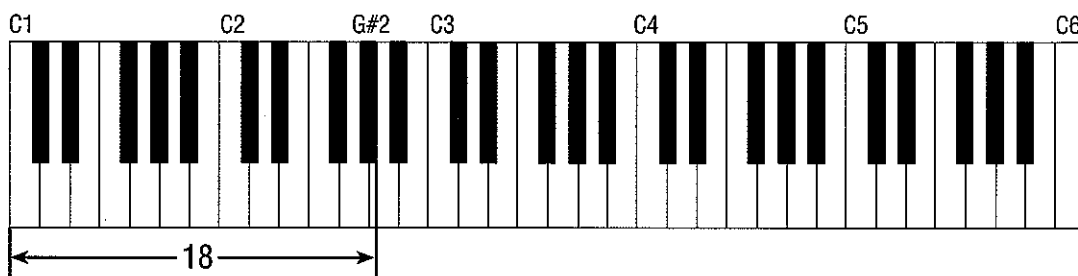
(13) STEREO CHORUS buttons
Used to add the STEREO CHORUS effect to the keyboard's sounds.

(14) MIDI IN / OUT Jacks (only X130)
Used to connect the keyboard to other MIDI instruments and equipment.

(15) Pedal Jack
Used to connect an optional footswitch (model F-1, available separately) to the keyboard. When the footswitch is depressed, notes played on the keyboard will be heard continuously for as long as the footswitch is held down. It operates like a sustain pedal on a piano.

(16) STEREO PHONES Jack
When stereo headphones are connected to this jack, the sound from the speakers is cut off. This allows you to play the keyboard at night and at other times when you might be concerned about disturbing others.

(17) DC IN Jack
Used to connect a Power Adaptor (Kawai PS-123 or PS-102) available separately.



Keys

(18) Lower Keyboard (C1 - G#2)
Used to trigger chord forms when the Auto-Accompaniment function is selected.

Throughout this manual, the keys will be referred to in the following manner:

C1 stands for "the first C" on the keyboard, counting from the left.
B2 stands for "the second B" on the keyboard from the left.
The total range of your keyboard is C1 to C6.

Basic Operation

Selecting Sounds

Selecting Sounds

Press $0 \circ + 4 \circ + 2 \circ$


or

Press $4 \circ + 2 \circ$
and wait for a moment.

1. Press the POWER switch to turn the power "on".
 2. Press one of the keys on the keyboard.
You should hear the sound No. 01 (GRAND PIANO).
 3. Control the volume of the sound with the MASTER VOLUME buttons.
 4. Select a sound using the SELECTOR buttons.
To enter the Sound number, there are 2 ways as below.
 - (1) Use the Numeric keys (0-9) to enter three digits including "0" in rapid succession.
EX 1: To enter No.9
press 9. (or press 0-0-9 successively)
EX 2: To enter No.42
press 4 and 2 (or 0-4-2) successively.
- Note:** Enter all the numbers in rapid succession, at least within 2 seconds. Otherwise the first one or two digits will be chosen in a few seconds.
- (2) Use -1 /+1 buttons to increase/decrease the numbers by a value of 1.
5. Play the keyboard.

Playing Rhythm Styles


Selecting Accompaniment Styles

Press 

Press $0 \circ + 2 \circ + 4 \circ$

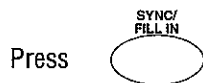
or

Press $2 \circ + 4 \circ$
and wait for a moment.

Press 

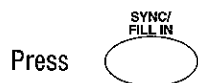
1. Press the STYLE button.
The lamp next to the STYLE button will light (and the display will change to read 001 on X130).
2. Select an Accompaniment Style using the SELECTOR buttons.
To enter the Style number, there are 2 ways as below.
 - (1) Use the Numeric keys (0-9) to enter the number.
EX 1: To enter No.9
press 9. (or press 0-0-9 successively)
EX 2: To enter No.24
press 2 and 4 (or 0-2-4) successively.

Enter all the numbers in rapid succession, at least within 2 seconds.
 - (2) Use -1 /+1 buttons to increase/decrease the numbers by a value of 1.
3. To start the Style, press the START/STOP button.



4. Press the "SYNC./FILL-IN" button to play a FILL-IN pattern.

Using the SYNC Feature



5. To stop playing with the Ending, press the START/STOP button. To stop playing without the Ending, press the START/STOP button twice.

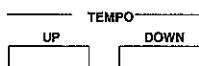
1. While the Accompaniment Style is off, press the SYNC/FILL-IN button.

(If you want to use "SYNC" function with an INTRO, press the SYNC./FILL-IN button and then press the INTRO/ENDING button.)

2. Press a key on the Lower Keyboard.

The Style will begin to play at the moment you press a key. The start of the Style will "synchronize" with your touch of the keyboard (thus, the abbreviation "SYNC").

Changing Accompaniment Tempo



1. The UP button causes the tempo to increase.

The DOWN button causes the tempo to decrease.

(On X130, the small lamp at the top of the display (labelled BEAT) will blink in time with the current tempo.)

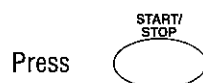
2. (Only X130) When you press either of the TEMPO buttons, the display will briefly show the current tempo (between 40 - 250).

3. (Only X130) When you select the lower value than 040, the display shows "SYC".

When setting the "SYC" value, the Styles of X130 can only be played with the external MIDI sequencer by receiving tempo message through MIDI IN jack. (See page 12 for the details MIDI.)

4. Pressing the TEMPO UP button within five seconds after selecting a new Style will change the tempo to a factory preset rate that suits the new Style.

Using Auto-Accompaniment



The X120/130's Auto-Accompaniment ("automatic accompaniment") section is one of the most powerful found on any portable keyboard. With the Auto-Accompaniment, you can control the chord and bass parts with your left hand while playing the melody with your right hand.

1. Select a Style.

2. Press AUTO button to turn Auto Accompaniment on.

3. Then, start the Style by pressing the START/STOP button.

The rhythm and Auto-Accompaniment (Bass/Chord) will start to play.


4. Now press one or more of the keys on the Lower Keyboard.
The Auto-Accompaniment chords will change as you press different keys.

See page 17 for a chart of these chords in the key of C.


Using The Real-Time **RECORDER (X130 ONLY)**

This section will show you how to record the songs you perform using the X130's RECORDER feature.

Here are the steps:

Press 

1. Press the REC/STOP button.
You will hear the sound of the metronome.
2. Start playing.
Everything you play, including changes in Sounds or Styles, will be recorded just as you played them.
3. When you are done with your song, press the REC/STOP button once more. The recording process will end.

Press 

4. Now, play the song back.
Press the PLAY/STOP button. The song you just recorded will begin to play.
To stop the song, press the PLAY/STOP button once more.

Tempo information will not be recorded by the RECORDER. This allows you to record songs at a slow tempo and play them back at a faster tempo.

Once the memory capacity of the RECORDER is reached, the RECORDER will automatically stop recording.

When recording another song to the RECORDER, the previously-recorded song will be automatically erased.

Advanced Operation

Adding Effects

STEREO CHORUS



HOLD (sustain)

Your X120/130 has a variety of effects which can add realism or excitement to your selected sound.

Pressing the STEREO CHORUS button adds a deep stereo richness to the currently selected sound.

Pressing the button a second time cancels the effect.

The STEREO CHORUS effect is not effective on the sound No. 100 (Drum Set).

The PEDAL jack allows you to connect an optional foot switch (KAWAI F-1, available separately) to the X120/130.

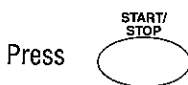
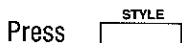
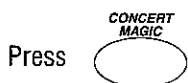
Depressing the foot switch lengthens the duration of notes played on the keyboard. It operates like the sustain pedal on the piano.

"CONCERT MAGIC" Operation

The Concert Magic Feature allows you to listen to or perform 30 preprogrammed songs, even if you've never taken a piano lesson in your life.

Note: You cannot use RECORDER when CONCERT MAGIC function is ON.

PERFORMANCE mode



You can perform the selected song by pressing anywhere on the whole keyboard. The instrument will automatically play right notes step by step as you press a key. You can also listen to the preset song so you can learn how the song plays.

(1) Press CONCERT MAGIC button to enter the CONCERT MAGIC mode.

(2) Press STYLE button (to light the LED next to the button).

(3) Use SELECTOR buttons to select an internal song of CONCERT MAGIC.

(4) Press START/STOP button to listen to the song. The selected song starts to play.

(5) Use TEMPO buttons to change the performance tempo.

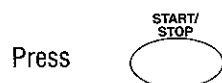
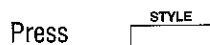
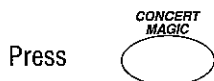
(6) To change the tone color for Melody Part:

1: Press SOUND button.

2: Use SELECTOR buttons to select a sound for Melody.

(7) Press START/STOP button again to stop the playing.

MELODY mode



- (8) Press any key of the whole keyboard to perform the song by yourself.
Every time a key is pressed, the selected song will be played step by step, note by note.
- (9) Press CONCERT MAGIC button again to quit the CONCERT MAGIC mode.

CONCERT MAGIC songs are made of two parts – melody and accompaniment. You can mute the melody part so you can play it by yourself hearing the accompaniment only. It is a good method to practice playing the keyboard.

In addition, you can play the melody part with your right hand and performing only accompaniment part of the CONCERT MAGIC song with one finger of your left hand.

- (1) Press CONCERT MAGIC button to enter the CONCERT MAGIC mode.
- (2) Press STYLE button (to light the LED next to the button).
- (3) Use SELECTOR buttons to select an internal song of CONCERT MAGIC.
- (4) Press AUTO button to turn off the melody part. The little LED of the display will be lit.
- (5) Press START/STOP button. The accompaniment part of the selected song starts to play.
Play the melody with the whole keyboard.
- (6) Press START/STOP button again to stop the playing.
- (7) Press any key of the LOWER keyboard with your left hand.
Every time a key is pressed, the accompaniment part of the selected song will be played step by step. Play the melody yourself on the UPPER keyboard at the same time.
- (8) To change the tone color for Melody Part:
 - 1: Press SOUND button.
 - 2: Use SELECTOR buttons to select a sound for Melody.
- (9) Press CONCERT MAGIC button again to quit the CONCERT MAGIC mode.

NOTE: If you stop playing halfway, and leave it over 1 minute, the song will be reset to the start point.
To reset the song to the start point, press SYNC/FILL IN button.
When selecting another song during playing, the newly-selected song starts to play from the beginning.

Using MIDI (For X130 only)

About MIDI

Before attempting to set the MIDI function, let's take a brief look at what MIDI is.

The letters MIDI stand for Musical Instrument Digital Interface, an international standard for connecting synthesizers, drum machines, and other electronic instruments so that they can exchange performance data. MIDI allows you to interface your instruments with other instruments and in turn control them.

For example, if you connect the MIDI OUT of one keyboard to the MIDI IN of a second keyboard, you can have the second keyboard produce sounds by playing only the first.

Connections

A special 5 pin DIN (MIDI) cable is used to connect MIDI instruments. There are three terminals to plug the cable in. Each has the following functions:

IN: This terminal receives MIDI signals (information, musical data etc.)

OUT: This terminal transmits MIDI signals (musical data, etc.)

THRU: This terminal re-transmits only the data received at the MIDI IN terminal.

Note: Some instruments as well as the X130 have only MIDI IN and MIDI OUT terminals

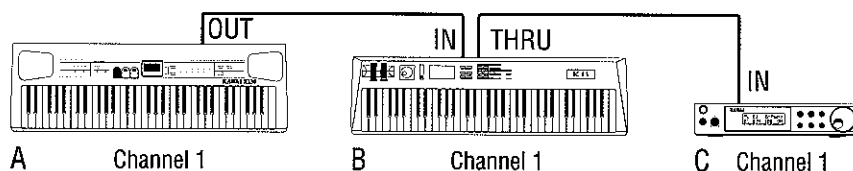
For recording many parts assigned to different MIDI channels (in MULTI TIMBRE mode) using for example a Kawai keyboard, you would connect the OUT of the keyboard to the IN of a sequencer such as Kawai DRP-10.

MIDI Channel

Musical data etc. transmitted via MIDI include "channel number" information which specifies the MIDI instrument for which the data is intended. This is similar to the channel of a television receiver. If the channel of the receiver matches the channel of the transmitter, the data will be received. MIDI has sixteen channels (1-16). By setting each instrument to a different channel, you can transmit musical data to a specific instrument.

Connecting two or more devices

The following diagram shows how three instruments can be connected so that instrument A simultaneously control both instruments B and C.



Now we will set the reception channel of instrument C to "2". Instruments A and B are assigned to the same channel, so instrument A will control instrument B.

However, instruments A and C are assigned to different channels, so instrument A will not control instrument C. In this way by assigning channels to various instruments, MIDI makes it possible for you to control specific instruments.

Using The SYSTEM Functions

In this section, we will describe the keyboard's SYSTEM functions which deal with the overall control of the keyboard.

The SYSTEM functions are assigned the following "function numbers".

X120	X130	
1	1	TUNING CONTROL (Pitch Adjustment)
2	2	TRANSCOPE (To change keys)
3	3	TOUCH RESPONSE ON/OFF
4	4	PEDAL FUNCTION SELECT *
5	-	CLICK ON/OFF (only X120)
-	5	MIDI TRANSMIT CHANNEL SELECT (only X130) *
-	6	ACCOMPANIMENT MIDI OUT ON/OFF (only X130) *
-	7	LOCAL CONTROL ON/OFF (only X130) *

The function settings marked with * will remain even after turning the keyboard's power off.

Navigating in SYSTEM Mode

1. With the Accompaniment stopped, simultaneously press the SOUND button and STYLE button to enter the SYSTEM mode.
2. Use the SELECTOR buttons to enter the number of your desired SYSTEM function (for example, if you want the TRANSCOPE function, you would press "2").
3. Change the value using +1/-1 buttons.
4. Press the DEMO button to leave the SYSTEM mode.

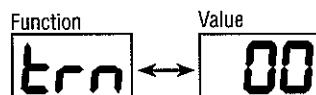
TUNING CONTROL



Adjusts the keyboard's pitch within a range of -08 to 07.

If you press the +1 button once, the number in the display will change to read 01 and the pitch will raise slightly. If you press the -1 button instead, the number will change to -01 and the pitch will drop slightly.

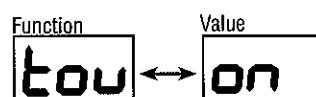
TRANSCOPE



Adjusts the keyboard's pitch by one full octave upward or downward (that is, from -12 half steps to +12 half steps).

If you press the +1 button, the number in the display will change to read 01 and the pitch will raise by a half step. If you press the -1 button instead, the number will change to -01 and the pitch will drop by a half step.

TOUCH RESPONSE ON/OFF

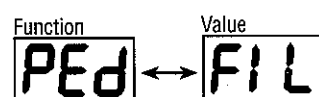


Lets you select from two different "touch" settings which are numbered as follows:

ON: For a WIDE dynamic range, providing greater contrast between loud and soft playing.

Off: Touch Response is deactivated. Each key will play at the same volume level no matter how hard you strike the key.

PEDAL FUNCTION SELECT



You can change the function to be assigned for the foot pedal connected to the PEDAL jack of X120/130.

FIL: Sync/Fill in function (same as SYNC/FILL IN button on the front panel).

HOL: Hold pedal function

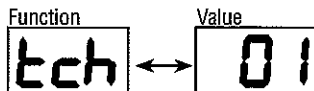
CLICK ON/OFF
(only X120)

You will hear a click sound whenever you press buttons (except for the START/STOP, DEMO and POWER button). You can turn off the click sound if necessary.

If you press the -1 button, the click sound will not be heard after you leave the SYSTEM mode. To restore the click sound, enter SYSTEM mode again, and select "5" with SELECTOR, and press +1 button.

MIDI TRANSMIT CHANNEL SELECT
(only X130)

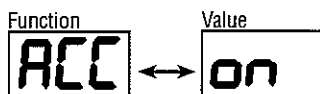
Allows you to select the MIDI transmit channel for your keyboard. Use this procedure to select any MIDI channel from 1 to 16.



Note: When the "ACC" is set to "on", the "tch" will not apply. The preset "accompaniment send" channels will override the "tch" channel.

ACCOMPANIMENT MIDI OUT ON/OFF
(only X130)

The X130's ability to send "automatic" data via MIDI is controlled by a SYSTEM function called "Accompaniment MIDI Out". This function must be "on" to allow automatic data to be sent via MIDI.



Note: You cannot set the Accompaniment MIDI Out mode to "on" when Local Control is in the "off" mode. When the "ACC" is set to "off", the keyboard will transmit data on only one MIDI channel. (referred to as "tch")

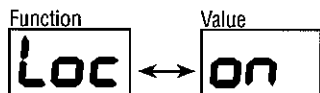
LOCAL CONTROL ON/OFF
(only X130)

Using LOCAL CONTROL, you can determine whether or not your keyboard produces sound when the keys are played.

Why would you want to turn off the keyboard's sound? When using MIDI, your X130 can operate as a "controller" used to control the sound of another MIDI-equipped instrument. In this situation, you may want to play the keys on your X130 but hear only the sound of the other keyboard (sometimes referred to as the "slave" keyboard) that is being controlled through MIDI.

When LOCAL CONTROL is "on", you will hear the X130's sound when the keys are played.

When LOCAL CONTROL is "off", MIDI note information is still sent via MIDI as you play, but no sound is heard through the keyboard's speakers.



You cannot set Local Control "off" and Accompaniment MIDI OUT mode to "on" at the same time.

Creating Songs With An External MIDI Sequencer (only X130)

When using an external MIDI sequencer (Ex: KAWAI DRP-10) and X130's MIDI functions, you can create a song with 16 parts. Here's how to start creating songs on your keyboard in the two MIDI modes using an external sequencer.

1. Connect the X130 to a MIDI sequencer.
2. Set LOCAL CONTROL to "off". (See page 14.)
3. Turn on the "Echo Thru" or "Thru" function in the MIDI sequencer.
4. Change the MIDI Transmit channel ("tch") to 10. (See page 14.) This will allow you to record a drum part first.
5. Select sound No. 100 using the SELECTOR buttons.
6. Start the sequencer recording, and play the keys of your X130 to record a drum part.
7. Stop the sequencer.
8. Now, you're ready to create other parts. Change the X130's MIDI Transmit channel from 10 to 1. (Be sure to press the DEMO button to leave the SYSTEM mode.)
9. Use the SELECTOR buttons to select the sound of your choice.
10. Start the sequencer and record the next part. You should be able to hear the drums you recorded earlier as you play this new part.
11. To record other parts, use the same steps to change the MIDI Transmit channel to any channel from 2 through 16 (except channel 10 which you used for drums). Then, select the sound you will use for the new part and record it as before.

Note:

Of course, if you change the sound you are using in the middle of the recording, the sound change will also be recorded. Therefore, it is not necessary to assign three solos - a sax solo, a guitar solo, and an organ solo to three separate channels. You can record them all on one channel by simply changing the sound as you record.

12. If your sequencer allows you to "channelize" or change the MIDI channel for any track after you've recorded it, you may be able to save time in recording.

After recording the drums on channel 10, set the MIDI Transmit channel to 01. Record the next track on channel 1. After recording, change the channel on this track to channel 2. This frees channel 1 to record another track which you can then assign to channel 3. Keep transmitting data on channel 1 and then assigning the data to a different channel. This will help you to avoid having to change the MIDI transmit channel before recording each new track.

Sending Recorder Data to an External Sequencer via MIDI

The songs stored in the Recorder of your X130 can also be sent to an external sequencer via MIDI. You can record songs on your X130 anywhere and then transfer the song data to your external sequencer later.

1. Connect the MIDI jacks of your X130 to the MIDI jacks of your external sequencer.
2. Make sure that the ACCOMPANIMENT MIDI OUT function is "on" (See page 14).
3. Press the PLAY/STOP button on the Recorder.
As your song plays, the note data will be sent via MIDI.

These are a few examples of the ways in which the keyboard's MIDI functions can be used.

There are certainly many other interesting and enjoyable things you can find to do with MIDI.

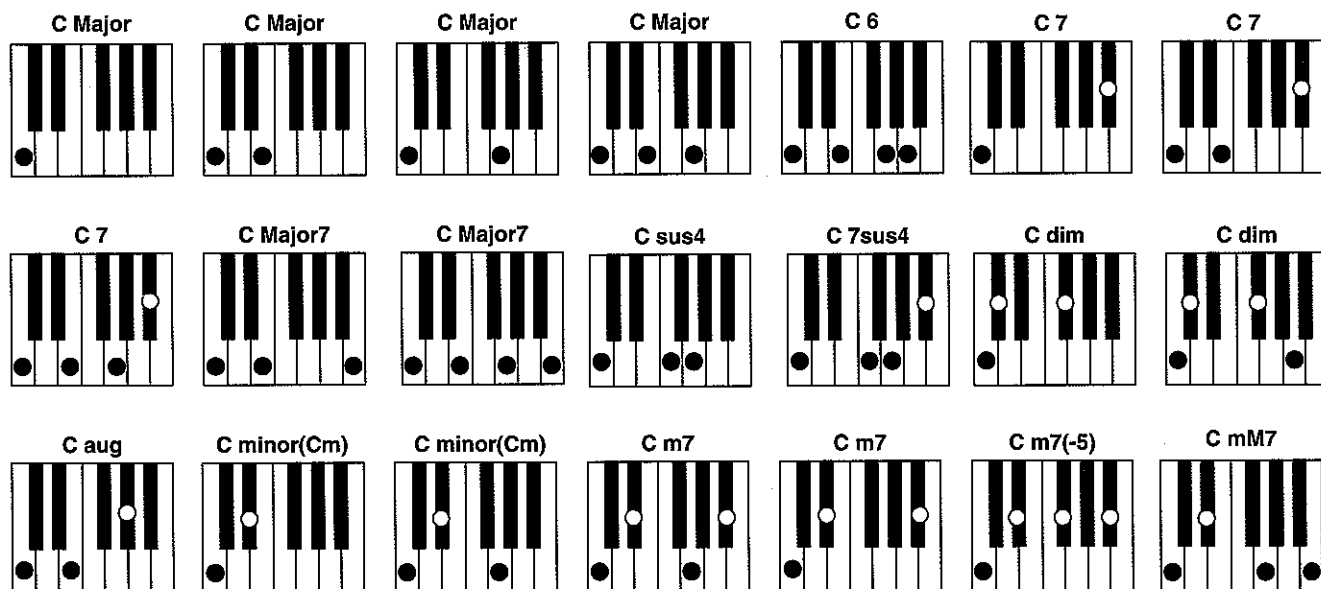
Its possibilities are limitless!

Appendix

Drum Sound List (Key Numbers)

Key No.	MIDI Instruments		
23	CLICK LO	58	DAMMY
24	CLICK MID	59	RIDE CYMBAL 2
25	CLICK HI	60	HI BONGO
26	CHINA CYMBAL	61	LO BONGO
27	RIDE BELL	62	MUTE HIGH CONGA
28	SPLASH CYMBAL	63	OPEN HI CONGA
29	CRASH CYMBAL 2	64	LO CONGA
30	RIDE CYBAL 2	65	HI BONGO
31	MUTE HI CONGA	66	LOW BONGO
32	MARACAS	67	HI AGOGO
33	H.H. CLOSED (HI TUNE)	68	LO AGOGO
34	A. SNARE (HI TUNE)	69	CABASA
35	ACOUSTIC BASS DRUM	70	CABASA
36	BASS DRUM 1	71	DAMMY
37	SIDE STICK	72	DAMMY
38	A. SNARE	73	CABASA
39	COWBELL	74	CABASA
40	E. SNARE	75	CLAVES
41	LOW FLOOR TOM	76	CLAVES
42	H.H. CLOSED	77	CLAVES
43	HIGH FLOOR TOM	78	MUTE HI CONGA
44	H.H. PEDAL	79	LO CONGA
45	LOW TOM	80	CLAVES
46	H.H. OPEN	81	DAMMY
47	LOW MID TOM	82	BASS DRUM 1
48	HI MID TOM	83	SIDE STICK
49	CRASH	84	A. SNARE
50	HIGH TOM	85	COWBELL
51	RIDE CYMBAL 1	86	E. SNARE
52	CHINA CYMBAL	87	LOW FLOOR TOM
53	RIDE CYMBAL	88	H.H. CLOSED
54	CABASA	89	HIGH FLOOR TOM
55	SPLASH CYMBAL	90	H.H. PEDAL
56	COWBELL	91	LOW TOM
57	CRASH CYMBAL 2	92	H.H. OPEN
		93	LOW MID TOM
		94	HI MID TOM
		95	CRASH
		96	HIGH TOM
		97	RIDE CYMBAL 1
		98	CHINA CYMBAL
		99	RIDE CYMBAL
		100	CABASA
		101	SPLASH CYMBAL
		102	COWBELL
		103	CRASH CYMBAL 2
		104	DAMMY
		105	RIDE CYMBAL 2
		106	HI BONGO
		107	LO BONGO
		108	MUTE HIGH CONGA
		109	OPEN HI CONGA
		110	LO CONGA
		111	HI BONGO
		112	LOW BONGO
		113	HI AGOGO
		114	LO AGOGO
		115	CABASA
		116	CABASA
		117	DAMMY
		118	DAMMY
		119	CABASA
		120	CABASA
		121	CLAVES
		122	CLAVES
		123	CLAVES
		124	MUTE HI CONGA
		125	LO CONGA
		126	CLAVES
		127	DAMMY

Chord Form List



Specifications

Keyboard	61Keys (Full Size / Touch Response)
Sounds	100
Styles	30
Polyphony	Max. 28 Notes
Effect	Stereo Chorus
Style Control	Tempo, Start/Stop, Sync/Fill In
Recorder	1 Song (only X130)
Others	Concert Magic Function (30 Songs), Auto On/Off, Demo (2 Songs), Tuning, Transpose, Touch Response Type Select
Jacks	DC In, Headphone, Pedal, MIDI In/Out (only X130)
Speaker	12cm x 2
Power	10-12V, 0.5A (6 "C" Batteries / AC Adaptor)
Dimensions	91.2 cm x 30.7 cm x 9.6 cm, 35.9" x 12.1" x 3.8"
Weight	4.4 kg, 9.7 lbs.
Accessories	Music Rack/Owner's Manual

* Specifications subject to change without notice.

MIDI Implementation chart (X130)

Date: November 1995

MODEL: KAWAI PERSONAL KEYBOARD X130

Version: 1.0

Function ...	TRANSMITTED	RECOGNIZED	REMARKS
Basic Default Channel Changed	1 1—16	1—16	
Mode Default Message Altered	× × *****	Mode 3 × *****	
Note Number True Voice	○ 18—108	0—127 0—127	24-108 Keyboard 0-127 ACC. SEND
Velocity Note On Note Off	○ 10—127 × 9n V=00	○ ×	
After Key's Touch Ch's	× ×	× ○	
Pitch Bend	×	○ *3)	
Control Change	1 × 6 × 7 × 10 × 11 × 64 ○ 100, 101 × 120 × 121 ×	○ ○ ○ ○ ○ ○ ○ ○ ○	Modulation *3) Data Entry Volume Panpot *3) Expression Hold *3) RPN LSB, MSB *3) *4) All sounds off Reset all controllers
Program Change True#	○ 0—99	○ *3) 0—99	
System Exclusive	○	○	
Common : Song Pos : Song Sel : Tune	× × ×	× × ×	
System Realtime : Clock : Command	○ *1) Start, Stop	○ *2) Start, Stop	
Aux : Local : All note off Messages : Active sense : Reset	× × ○ ×	× ○ ○ ×	
Notes	1) Sent when STYLE starts to play 2) Receives when using MIDI SYNC 3) Except channel 10 4) RPN #0 = Pitch bend sensitivity		

Mode 1: OMNI ON, POLY
Mode 3: OMNI OFF, POLY

Mode 2: OMNI ON, MONO
Mode 4: OMNI OFF, MONO

○ : YES
× : NO

FCC Information

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Canadian Radio Interference Regulations

This instrument has been certified to comply with the limits for a class B digital apparatus, pursuant to the Radio Interference Regulations, C.R.C., c. 1374.

KAWAI

Kawai Electronic Keyboard X120/X130
OM337E-HI 9512
Printed in Indonesia