

Digital Piano 360

Owner's Manual

WARNING: This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instruction manual, it can cause interference to radio communications. The rules with which it must comply afford reasonable protection against interference when used in most locations. However, there can be no guarantee that such interference will not occur in a particular installation. If this equipment does not cause interference to radio or the equipment off and on, the user is encouraged to try correct the interference by one or more of the following measures:

- reorient the receiving antenna.
- move the receiver away from the digital piano.
- plug the digital piano into a different outlet so that digital piano and receiver are on different branch circuits.
- consult the dealer or an experienced radio television technician.

This digital piano should be not commercial use but household use.

### IMPORTANT SAFETY INSTRUCTIONS

WARNING — When using electric products, basic precautions should always be followed, including the following:

- 1. Read all the instructions before using the product.
- 2. To reduce the risk of injury, close supervision is necessary when a product is used near children.
- 3. Do not use this product near water for example, near a bathtub, washbowl, kitchen sink, in a wet basement, or near a swimming pool, or the like.
- 4. Do not touch the power plug with wet hands. There is a risk of electrical shock. Treat the power cord with care as well. Stepping on or tripping over it can break or short-circuit the wire inside.
- 5. This product should be used only with a cart or stand that is recommended by the manufacturer.
- 6. This product, either alone or in combination with an amplifier and headphones or speakers, may be capable of producing sould levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.
- 7. The product should be located so that its location or position does not interfere with its proper ventilation.
- 8. The product should be located away from heat sources such as radiators, heat registers, or other products that produce heat.
- 9. Keep the instrument away from electrical motors, neon signs, fluorescent light fixtures, and other sources of electrical noise.

- 10. The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product.
- 11. This product may be equipped with a polarized line plug (one blade wider than the other). This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician to replace your obsolete outlet. Do not defeat the safety purpose of the plug.
- 12. Always turn the power off when the instrument is not in use. The power-supply cord of the product should be unplugged from the outlet when left unused for a long period of time.
- 13. Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
- 14. The product should be serviced by qualified service personnel when:
  - A. The power-supply cord or the plug has been damaged; or
  - B. Objects have fallen, or liquid has been spilled into the product; or
  - C. The product has been exposed to rain; or
  - D. The product does not appear to operate normally or exhibits a marked change in performance; or
  - E. The product has been dropped, or the enclosure damaged.
- 15. Do not attempt to service the product beyond that described in the user-maintenance instructions. All other servicing should be referred to qualified service personnel.



# CAUTION RISK OF ELECTRIC SHOCK



### WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK. DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

### AVIS: RISQUE DE CHOC ELECTRIQUE -NE PAS OUVRIR.

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lighting flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

### Thank you for purchasing a Kawai Digital Piano!

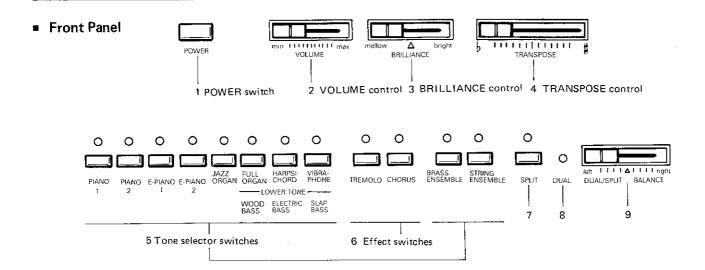
The Kawai digital piano P360 is a revolutionary new keyboard instrument that combines the latest in electronic advances with traditional craftsmanship inherited from Kawai's many years of experience in building fine pianos. Its wooden keys provide the touch response and full dynamic range required for a superb performance on the piano, harpsichord, organ, and other instrument presets. Industry-Standard MIDI (Musical Instrument Digital Interface) jacks are included which allow you to play other electronic instruments at the same time — opening a whole new world of musical possibilities.

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

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### Basic Controls



#### 1 POWER

### 2 VOLUME

Move the volume slider to the right to increase the instrument's volume. Move the slider to the left to decrease the volume.

### 3 BRILLIANCE control

This slider controls the brilliance, or clarity, of the sound. Shifting it to the left produces a rich, mellow sound; shifting it to the right, a bright, clear sound. The center position corresponds to the instrument's normal tone.

### 4 TRANSPOSE control

Shifting the slider to the right raises the piano's key  $\{C \rightarrow C\# \rightarrow D \rightarrow E^b \rightarrow E \rightarrow F\}$ ; shifting it to the left lowers the key  $\{C \rightarrow B \rightarrow B^b \rightarrow A \rightarrow A^b \rightarrow G \rightarrow F\#\}$ . You can therefore play the music as written — in C major, for example — and have the instrument transpose the output to a higher or lower key to match your voice.

### 5 TONE SELECTORS

Select the desired instrument by pressing the appropriate switch.

Press the appropriate switch for the desired instrument.

PIANO 1 Normal piano
PIANO 2 Mellow piano
E. PIANO 1 Sharp electric piano
E. PIANO 2 Mellow electric piano

JAZZ ORGAN Drawbar organ reminiscent of Hammond organ

FULL ORGAN Full pipe organ HARPSICHORD VIBRAPHONE

STRING ENSEMBLE BRASS ENSEMBLE

Note: The WOOD BASS, ELECTRIC BASS, and SLAP BASS are only available for the lowest part of a SPLIT key-

board. (See p. 5.)

### 6 EFFECTS

These functions cause the output to become more animated (CHORUS) or fluctuate (TREMOLO).

### 7 SPLIT switch

Pressing this switch splits the keyboard into an upper and lower half, each with different tone colors. When the function is first activated, the keyboard is split at the point marked with a triangle on the front panel, but this point is changeable. For the procedure, see "Changing the SPLIT point".

### 8 DUAL LED

Simultaneously pressing two tone selector switches lights this DUAL LED and activates the DUAL mode of operation, in which the piano simultaneously uses two tones instead of just one. Press a single tone selector switch to cancel.

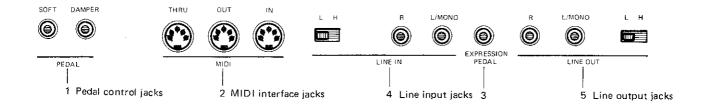
### 9 DUAL/SPLIT BALANCE control

This slider controls the relative loudness of the two voices used in the SPLIT and DUAL modes. Shifting it to the right in the SPLIT mode makes the UPPER keyboard louder. For the DUAL mode, it is the rightmost preset of the pair that becomes louder.

### ■ Example

The PIANO 1 selector is to the left of VIBRAPHONE. If they are being used together in the DUAL mode, shifting the slider to the left makes the PIANO 1 tone louder. Shifting it to the right makes the VIBRAPHONE tone louder.

### Rear Panel



### 1 PEDAL

These jacks are used to connect the damper and soft pedals. The soft pedal can be used as the sostenuto pedal by applying the power while holding down the soft pedal.

#### 2 MIDI

These jacks allow communication with other gear equipped with MIDI.

IN Accepts MIDI data from other instruments.

**OUT** Transmits MIDI data to other instruments.

THRU Retransmits all MIDI data coming into the MIDI IN

jack (for use in a chain of MIDI devices).

### 3 EXPRESSION pedal

This jack is for connecting an expression pedal. The piano also adds this effect to the signal received through the LINE IN jack.

### 4 LINEIN

These jacks connect two channels of output from other electronic instruments to the piano's speaker. Use the L/MONO jack when using only one input.

Note: This input bypasses the piano's VOLUME control.

To adjust the balance, you must use the output volume controls on the individual instruments.

The two-position switch adjusts the LINE IN jack sensitivity to match the source: Low for strong inputs and High for weak ones

### 5 LINE OUT

These jacks provide stereo output to amplifiers, stereo systems, tape recorders, or similar equipment. The two-position switch to the right allows you to adjust the output level to High (H) or Low (L) to match the input impedance of the other equipment. Use the L/MONO jack when using only one output.

## Basic Operation

### 1 Basic Operation

### 1 Turn on the power.

When the power is first applied, the LED next to the PIANO 1 switch in the tone selector section lights.



#### **POWER**

### 2 Adjust the volume.

Sound a note on the keyboard and adjust the volume. (Moving the slider to the right raises the volume; moving it to the left lowers it).



### (3) Choose a tone color

Pressing a tone selector switch automatically changes the tone of the piano. The LED next to it lights to indicate which tone is currently in effect.

### a) DUAL operation

#### ■ Procedure

Simultaneously press two tone selector switches to achieve two tone colors at once and light the DUAL LED.

Notes: • Pressing such a combination also halves the number of simultaneous voices available to eight.

- Pressing another pair changes the combination.
- To cancel and return to normal operation, press a single tone selector switch.

### b) SPLIT operation

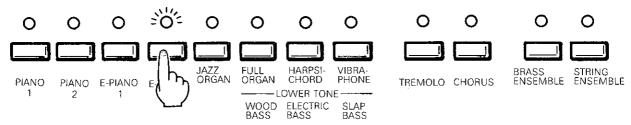
This operation splits the keyboard into an upper and lower half with different tone colors. The LED for the UPPER keyboard tone color glows continuously; the one for the LOWER keyboard flashes.

### ■ Procedure

- 1) Press the SPLIT switch so that the LED next to it lights.
- 2) Press a tone selector to change the UPPER tone color.
- 3) Hold down the SPLIT switch and press a tone selector to change the LOWER tone color.
- 4) Adjust the relative loudness of the two tone colors with the DUAL/SPLIT BALANCE control.

Notes: • When the function is first activated, the keyboard is split at the point marked with a triangle on the front panel, and the LOWER keyboard assumes the WOOD BASS tone color.

- The FULL ORGAN, HARPSICHORD and VIBRAPHONE cannot be selected as lower tone colors. Conversely, the WOOD BASS, ELECTRIC BASS and SLAP BASS cannot be selected as upper tone colors.
- The LOWER tone color specification remains in effect until the power is removed or the tone color is changed.
- Switching from DUAL operation to SPLIT operation makes the UPPER keyboard assume the right tone color and the LOWER assume the WOOD BASS or the tone you chose for the LOWER tone color.
- You must turn the SPLIT operation off before you can return to DUAL operation.
- To change the SPLIT point, see "Changing the SPLIT Point".



#### (4) Play

Experiment with the various tone colors to acquaint yourself with the sounds that are available.

### (5) (Optional) Add an effect!

Press an effect switch to add a special effect (CHORUS or TREMOLO).

### 2 The NEXT Function

Pressing a tone selector switch does not necessarily produce an immediate change. If you are pressing any keys on the keyboard or holding down the damper pedal, the LED next to the switch will start flashing to indicate that the piano is ready to change. When you release all keys and the damper pedal, the tone color will instantly change and the LED will light steadily. This allows you to make a smooth, natural transition without removing your hands from the keyboard.

Note: This function applies to the DUAL and SPLIT modes of operation as well.

### Advanced Features

### 1) MIDI Interface

### 1 Introduction

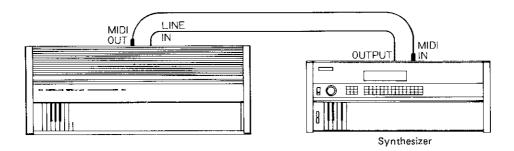
The letters MIDI stand for Musical Instrument Digital Interface, an international standard for connecting synthersizers, drum machines, and other electronic musical instruments so that they can exchange performance data. The P360 features three MIDI jacks — IN, OUT, and THRU — that allow it to both send and receive these kinds of data.

Note: The sending and receiving instruments must be assigned the same channel number before they can communicate.

### 2 Typical Applications

### 2.1 Ensemble playing with another keyboard instrument

Example: a digital synthesizer

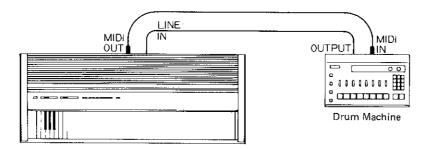


If you connect the MIDI OUT jack on your electronic piano to the MIDI IN jack on the synthesizer and the synthesizer's LINE OUTPUT jack to the piano's LINE IN jack, you will be able to play both instruments simultaneously from the piano keyboard. The interface transmits both the keys played and the strength with which you played them, so the synthesizer output is exactly the same as it would be if you were playing the keyboard directly. The only differences is that the synthesizer uses a different tone color, which blends with the digital piano's to create an ensemble effect. You can, for example, add the synthesizer's strings to your piano solo to give it more depth.

Note: If you reverse the MIDI IN and MIDI OUT connections, you can play the piano from the synthesizer just as easily.

### 2.2 Drum Machines

Example: a drum machine

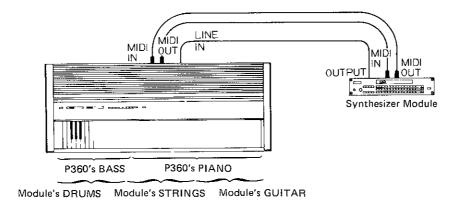


Connecting a drum machine allows you to add a rhythm accompaniment to your playing or create special effects by adding notes from the percussion instrument to the piano output.

### 2.3 Sound Generator Modules

Example: a synthesizer module

Use with an External Module



The above illustration shows how an external synthesizer module may be connected to the P360 so that you can play two or more instruments at once. The possibilities multiply when you combine this capability with the P360's SPLIT keyboard function.

### 3 MIDI Implementation

The MIDI interface on your Kawai Electronic Piano allows you to:

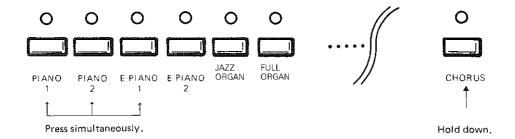
- (1) Receive and transmit keyboard data.
- (2) Receive and transmit soft and damper pedal data (ON/OFF).
- (3) Receive and transmit program numbers codes for changing tone colors.
- (4) Set MIDI channel numbers for sending and receiving to any number between 1 and 16.
- (5) Turn LOCAL CONTROL on and off either from the keyboard or another instrument.
- (6) Receive volume data from an external source. (The MULTI TIMBRE mode permits independent recognition of volume data on each channel.)

### 4 Operation

To issue commands to the MIDI interface or use the tuning capability, you must first switch the piano to a special "programming" mode.

### 4.1 Entering the programming mode

- 1) Press the CHORUS switch.
- 2) Holding down the CHORUS switch, press the first three tone selector switches (PIANO 1, PIANO 2, and E PIANO 1).



3) The LEDs next to the CHORUS and PIANO 1 switches should then start flashing to indicate that the piano is in the programming mode. In this mode, striking the keyboard produces no output.

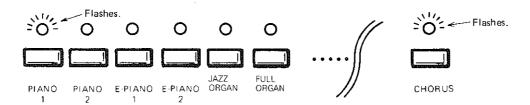
### 4.2 Leaving the programming mode

- 1) Press the CHORUS switch.
- 2) The flashing will stop, and you will return to the tone color in effect when you entered the programming mode.

### 4.3 Sending a program number (tone color code)

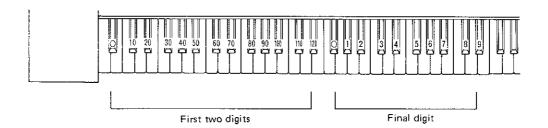
The P360 can send commands to other MIDI equipment to force program changes.

1) Make sure that the digital piano is in the programming mode. The flashing LED next to the PIANO 1 switch indicates that the interface is ready to transmit a program number.

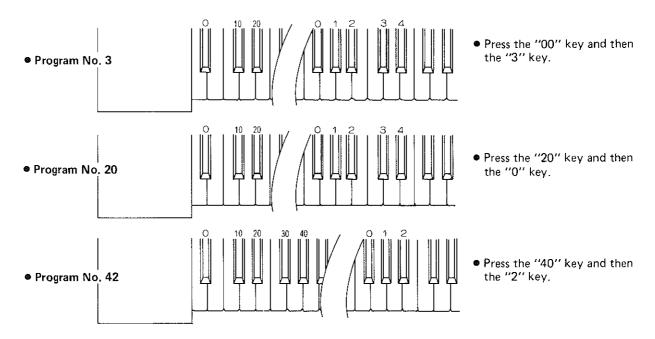


2) Select the program number by pressing the corresponding pair of black keys at the lower end of the keyboard. There are a total of 128 numbers possible: the first thirteen black keys give the first and second digits ("00"—"12") of this three-digit number; the next ten, the final digit ("0"—"9").

Note: You must press the two keys in order from left to right. Alternatively, you can press just the second one to change only the third digit.



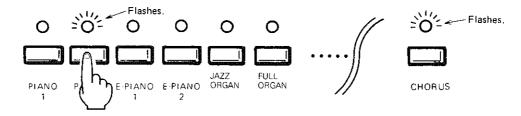
### Examples:



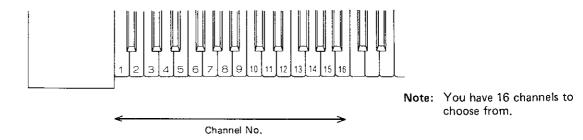
3) Leave the programming mode.

### 4.4 Setting the channel

- 1) Make sure that the digital piano is in the programming mode. (See p.7 4.1 "Enter the programming mode".)
- 2) Press the PIANO 2 switch so that it flashes to indicate that the interface is waiting for a channel specification. (It is also possible to turn the MULTI TIMBRE function ON and OFF. See following section.)



3) Select the channel by pressing the one of the first 16 white keys at the lower end of the keyboard.



- 4) Pressing one of these keys automatically sets the instrument's sending and receiving channel to the number selected.
- 5) Leave the programming mode. (See p. 7 4.2 "Leaving the programming mode".)

Note: When the power is first applied, the interface uses Channel 1 and has the OMNI parameter on. Changing to another channel automatically turns the OMNI parameter off. In OMNI mode, information from all channels is received.

### 4.5 Turning MULTI TIMBRE on and off

The MULTI TIMBRE function allows external MIDI instruments operating on different channels to simultaneously use up to 16 tone colors. The following chart gives the channel number assignment.

Channel 1	:	PIANO 1	Channel 7	:	HARPSICHORD	Channel 13	:	PIPE ORGAN
Channel 2	:	PIANO 2	Channel 8	:	VIBRAPHONE	Channel 14	:	WOOD BASS
Channel 3	:	E. PIANO 1	Channel 9	:	BRASS ENSEMBLE	Channel 15	:	ELECTRIC BASS
Channel 4	:	E. PIANO 2	Channel 10	:	STRING ENSEMBLE	Channel 16	;	SLAP BASS

Channel 5 : JAZZ ORGAN Channel 11 : TUBULARBELL
Channel 6 : FULL ORGAN Channel 12 : JAZZ GUITAR

#### ■ Procedure

- 1) Make sure that the digital piano is in the programming mode. (See p. 7 4.1 "Entering the programming mode".)
- 2) Press the PIANO 2 switch to set the LED next to the PIANO 2 switch flashing.
- 3) Press the highest black key to turn the function off, the highest white one to turn it on.
- 4) Leave the programming mode. (See p. 7 4.2 "Leaving the programming mode".)

Notes: • When the power is first applied or reapplied after a short break, MULTI TIMBRE is off.

• SPLIT function transmits MIDI messages for the upper half of the keyboard on the current MIDI channel or, if no channel has been selected, channel 1. Those for the lower half go out over the next channel.

### Example

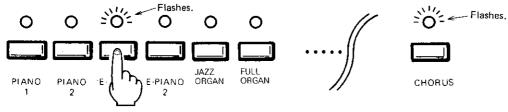
If the current MIDI channel is 3, the upper half of the keyboard sends on channel 3 and the lower half sends on channel 4. If the current channel is 16, the lower half sends on channel 1.

### 4.6 Turning LOCAL CONTROL on and off

LOCAL CONTROL refers to the connection between the internal sound source and the keyboard. It is normally on. Turning it off disconnects the keyboard; the instrument sounds only when it receives keyboard data through the MIDI interface. The keyboard can still control other MIDI devices connected to the P360's MIDI OUT.

### ■ Procedure

- 1) Make sure that the piano is in the programming mode. (See p. 7 4.1 "Entering the programming mode".)
- 2) Press the E PIANO 1 switch so that it flashes to indicate that the interface is waiting for a LOCAL CONTROL specification.



3) Press the highest black key to turn it off the highest white one to turn it on.

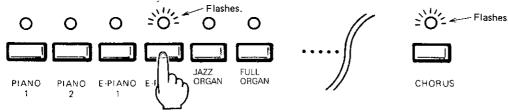


4) Leave the programming mode. (See p. 7 4.2 "Leaving the programming mode".)

Note: Momentarily turning off the power also turns LOCAL CONTROL on.

# 2) Tuning

- 1) Make sure that the digital piano is in the programming mode. (See p. 7 4.1 "Entering the programming mode".)
- 2) Press the E PIANO 2 switch so that it flashes to indicate that the piano is ready to be tuned.



- 3) Unlike the other functions in the programming mode, this one produces keyboard output so that you can compare the piano's pitch with another instrument. It uses the same keys as the LOCAL CONTROL function.
- 4) Press the highest black key to lower the pitch, the highest white one to raise it. It may be necessary to press these keys repeatedly to achieve proper tuning.



5) Leave the programming mode. (See p. 7 4.2 "Leaving the programming mode".)

Note: Momentarily turning off the power restores the original pitch.

## 3) Temperaments

Your Kawai digital piano offers not only equal temperament (the modern standard), but also immediate access to those popular during the Renaissance and Baroque period.

### Procedure

- 1) Make sure that the piano is in the programming mode. (See p. 7 4.1 "Entering the programming mode".)
- Press the JAZZ ORGAN switch so that it flashes to indicate that the piano is waiting for a temperament specification.
- Press one of the seven white keys at the lower end of the keyboard to select one of these corresponding temperaments



- 1. Equal temperament without the tuning curve
- 2. Mersenne pure temperament
- 3. Pythagorean temperament
- 4. Meantone temperament
- 5. Werckmeister III temperament
- 6. Kirnberger III temperament
- 7. Equal temperament with the tuning curve
- 4) Leave the programming mode. (See p. 7 4.2 "Leaving the programming mode".)

Note: When the power is first applied or reapplied after a short break, the piano returns to the modern standard, equal temperament with the tuning curve (#7).

Key set function is also available at this point. As you know, limitless modulation of the key became available only after the inventation of Equal Temperament. When we use a temperament except Equal Temperament, we must carefully choose the key signature to play in.

To select the key signature setting, simply press one of the keys marked on the front panel. For example, if the tune you are going to play is written in D major, press D key to set the key.

Please note that this will only change the "balance" of the tuning, and the pitch of the keyboard will remain unchanged.

Use the Transpose function to change the pitch of the whole keyboard.

Notes: • The order in which the temperament and key signature are pressed does not affect the final result.

 These temperament and key signature specifications remain in effect until the power is removed.

### Temperament Characteristics

### • Equal temperament

This, by far the most popular piano temperament, divides the scale into twelve equal semitones and has the advantage of producing the same chords for all transpositions.

### • Mersenne pure temperament

This temperament, which eliminates consonances for thirds and fifths, is still popular for choral music.

### • Pythagorean temperament

This temperament, which uses mathematical ratios to eliminate consonances for fifths, has problems with chords, but produces a very beautiful melodic line.

#### Meantone temperament

This temperament, which uses a mean between a major and minor whole tone to eliminate consonances for thirds, was devised to eliminate the lack of consonance experienced with certain fifths for the Mersenne pure temperament. It produces chords that are more beautiful than those with the equal temperament.

### • Werckmeister III temperament, Kirnberger III temperament

For key signature with few accidentals, this temperament produces the beautiful chords of the mean tone, but, as the accidentals increase, the tension increases, and the temperament produces the beautiful melodies of the Pythagorean temperament. It is used primarily for classical music written to take advantage of these characteristics.

# 4) Changing the SPLIT Point

### ■ Procedure

- 1) Make sure that the piano is in the programming mode. (See p. 7 4.1 "Entering the programming mode".)
- 2) Press the SPLIT switch so that it flashes to indicate that the piano is waiting for a SPLIT point specification.
- 3) Press the key corresponding to the lowest note for the desired UPPER range. For example, pressing the lowest key on the keyboard makes UPPER the entire keyboard.

Note: This specification remains in effect until the power is removed.

# Specifications

Keyboard	88 keys (wood)				
Tone Colors	[Upper] Piano 1, 2, E. Piano 1, 2, Jazz Organ, Full Organ, Harpsichord, Vibraphone, Brass Ensemble, String Ensemble [Lower] Piano 1, 2, E. Piano 1, 2, Jazz Organ Wood Bass, Electric Bass, Slap Bass, Brass Ensemble, String Ensemble.				
Effects	Tremolo, Chorus				
Special Mode	Dual, Split				
Temperaments	Equal, Mersenne pure Pythagorean, Meantone Werckmeister III, Kirnberger III				
Controls	Volume, Brilliance, Transpose, Tune Dual/Split Balance, Split Point				
Other Fittings	Headphone Jack, Pedal Jacks (Soft, Damper) Line Input Jacks (L[Mono]/R), Input Level Switch (H/L) Line Output Jacks (L[Mono]/R), Output Level Switch (H/L) Expression Pedal Jack, MIDI Jacks (IN, OUT, THRU)				
Output Power	20W x 2				
Speakers	12 cm x 2, 6 cm x 2				
Power Consumption	70W				
Finish	Cosmo black				
Dimensions (including stand)	1379 (W) x 485 (D) x 814 (H) mm (54 5/16" x 19 1/8" x 32 1/16"				
Weight (including stand)	63.0 kg (138.6 lbs)				

[KAWAI DIGITAL PIANO]
MODEL 360

### **MIDI** Implementation Chart

Date: Mar. 1988 Version: 1.0

Fun	ection	Transmistted	Recognized	Remarks		
Basic Channel	Default Changed	1—16	1 1—16			
Mode	Default Messages Altered	3 × *******	1 1, 3 ** ×	**The default for the OMN mode is ON. Specifying MIDI channels automatically turns it OFF.		
Note Number	: True voice	× 21-108 * ******	0-127			
Velocity	Note ON Note OFF	$\bigcirc$ 9nH V = 1-127 × 9nH · V = 0, 8nH	0 ×	V = 1-127		
After Touch	Key's Ch's	× ×	× ×			
Pitch Bende	r	×	×			
Control Change	7 64 66 67	× ○ (Right pedal) ○ (Left pedal) × (Left pedal)	O X X O	Volume Damper pedal Sostenuto pedal Soft pedal		
Prog Change	: True#	○ (0-127) ******	O (0-127) (0-9)	8-127 = 0 10-127 = 0		
System Exc	lusive	×	×			
System Common	: Song Pos : Song Sel : Tune	× × ×	× × ×			
System Real Time	: Clock : Commands	× ×	×			
Aux Messages	: Local ON/OFF : All Notes OFF : Active Sense : Reset	× 0 0 ×	0 0 0 X			
Notes		* 15-113 The value deper	nds on the TRANSPOSE set	ting.		

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

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

O : Y

 $\times : N$ 

# KAWAI

Kawai Musical Instruments Manufacturing Co., Ltd. 200 Terajima-cho, Hamamatsu, Japan