KAWAI

XR300 Electronic Organ

Owner's Manual

■ Thank you for your purchase of the Kawai XR Series Electronic Organ.
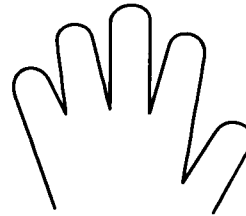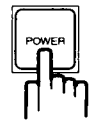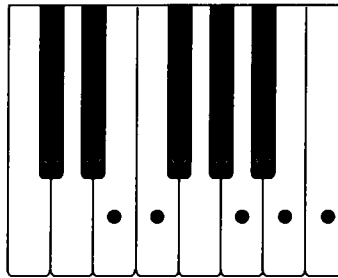
■ IMPORTANT SAFETY INSTRUCTIONS

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

1. Read all the instructions before using the product.
2. Do not use this product near water -for example, near a bathtub, in a wet basement, or near a swimming pool, or the like.
3. This product, either alone or in combination with an amplifier and headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high level. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.
4. The product should be located so that its location or position does not interfere with its proper ventilation.
5. The product should be located away from heat sources such as radiators, heat registers, or other products that produce heat.
6. The product should be connected to a power supply only of the type as marked on the product.
7. This product may be equipped with a polarized line plug. This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician to replace your obsolete outlet.
8. The power-supply cord of the product should be unplugged from the outlet when left unused for a long period of time.
9. Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
10. 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 spilt into product; or
    C. The product has been exposed to rain; or
    D. The product does not appear to operate normally; or
    E. The product has been damaged.
11. Do not disassemble or attempt to modify the product.

■ Note: Resetting of internal memory

• The contents of the internal memory (such as Registration, Effects) are reset by turning on the POWER while holding down the E, F, A, B and C keys within the highest octave of the UPPER KEYBOARD.

■ Table of Contents

■ NAME OF PARTS

PEDAL KEYBOARD

EXPRESSION PEDAL
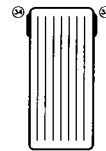
■ Control Panel Location Guide

① LOWER MANUAL TIBIA CONTROL BLOCK (refer to P.6)

② LOWER MANUAL ORCHESTRA CONTROL BLOCK (refer to P.8)

③ PRESET INSTRUMENT CONTROL BLOCK (refer to P.8)

④ TEMPO DISPLAY

⑤ DIAL

⑥ SYNTHESIZER CONTROL BLOCK (refer to P.9)

⑦ UPPER MANUAL TIBIA CONTROL BLOCK (refer to P.6)

⑧ UPPER MANUAL ORCHESTRA CONTROL BLOCK (refer to P.8)

⑨ REVERB switches (refer to P.5)

⑩ TOTAL VOLUME switches (refer to P.4)

⑪ POWER switch (refer to P.4)

⑫ TOUCH BARs (refer to P.9 and 14)

⑬ RHYTHM button (refer to P.12)

⑭ INTRO/ENDING button (refer to P.13)

⑮ FILL IN buttons (refer to P.13)

⑯ ONE TWO PLAY button (refer to P.16)

⑰ AUTO MELODY CHORD button (refer to P.15)

⑱ Buttons to select mode of chord detection (refer to P.14 and 15)

⑲ PEDAL KEYBOARD TIBIA CONTROL BLOCK (refer to P.6)

⑳ PEDAL KEYBOARD ORCHESTRA CONTROL BLOCK (refer to P.8)

㉑ TRANSPOSE button (refer to P.10)

㉒ TUNE (Tuning) button (refer to P.10)

㉓ Accompaniment Melody part control BLOCK (refer to P.14)

㉔ BASS button (refer to P.14)

㉕ RHYTHM VOLUME/TONE switches (refer to P.12)

㉖ RHYTHM select buttons (refer to P.12)

㉗ HAND PERCUSSION button (refer to P.9)

㉘ REGISTRATION MEMORY (I, II, III) buttons (refer to P.16)

㉙ REGISTRATION-WRITE button (refer to P.16)

㉚ TIBIA EFFECT buttons (refer to P.7)

㉛ UPPER/LOWER sustain (refer to P.5)

㉜ PRESET INSTRUMENT-KEYBOARD CONDUCTOR buttons (refer to P.8)

㉝ Right FOOT SWITCH (refer to P.13)

㉞ Left FOOT SWITCH (refer to P.12)

■ Connectors

① HEADPHONE
With a headphone plugged in this jack, you can enjoy playing your organ without disturbing others.

② LINE IN MODE
If you set this switch to "EXP", you can control the LINE IN volume with the EXPRESSION PEDAL. If you set this switch to "THRU", the EXPRESSION PEDAL will not control the LINE IN volume.

③ LINE IN
Receives the signals from your cassette tape decks or other audio equipments.

④ LINE OUT
Connect these jacks to your cassette tape decks or other audio equipments.

⑤ MIDI (see the Chapter 4 "MIDI" section of this manual.)

■ Getting Ready to Play

1
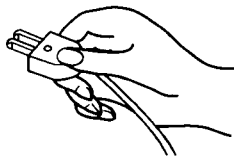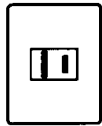
2
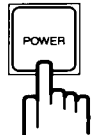
1. Insert the plug end of the AC power cord into the wall outlet.
2. Press the power switch to turn the unit on. The LED will light.

◆ Volume Adjustment

3
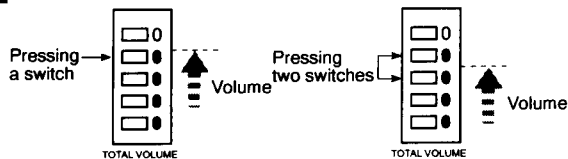
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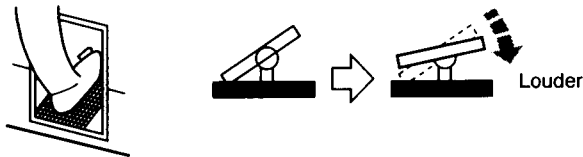
3. Set the TOTAL VOLUME switches at mid range of volume.
   Note: All volume controls on your XR300 feature a convenient set of tiny instantaneously acting electronic switches, placed vertically on each volume control. The switch at the bottom of the control will turn off that block.
   As you press the switch higher up on the control the volume will increase. When two adjacent switches are pressed at the same time, the volume is set to the mid point between the levels by the two switches.
4. Depress the expression pedal halfway.
   This pedal controls the volume of the organ's overall volume.
   During a performance, using the pedal gives music strong and weak expressions.

Note: About the unit's internal memory
The XR300 is equipped with a back-up battery to maintain data in memory even when the power is turned off. This battery has a lifetime of 6 -10 years although this can depend somewhat on operating conditions. When the back-up battery begins to run down, the WRITE button in the REGISTRATION MEMORY section blinks several times when you turn the power on. You cannot back up the internal memory once the back-up battery has run out of power. For a replacement back-up battery, ask at the store where you made your purchase or any authorized KAWAI dealer.

4

Chapter 1 BASIC OPERATION

■ Selecting Sounds

Play a key on the UPPER KEYBOARD. You will hear the combination sounds of the UPPER MANUAL blocks (TIBIA, ORCHESTRA, PRESET INSTRUMENT, and SYNTHESIZER blocks). Two or more sounds can be mixed for the TIBIA block. Only one sound can be selected for each of the other blocks. For example, if you press the PIANO switch when the VIBRAPHONE sound is selected, the sound for the PRESET INSTRUMENT block will change from VIBRAPHONE to PIANO. Adjust the volume of each tone block using the VOLUME switches. (Setting the VOLUME level of a block at its minimum level turns off the block.) If you want to play TIBIA block only for the UPPER KEYBOARD, set the volume level of the other blocks at its minimum level.

Mixed sounds of the LOWER MANUAL blocks (TIBIA, ORCHESTRA, and PRESET INSTRUMENT blocks) will be played for the LOWER KEYBOARD.

Mixed sounds of the PEDAL blocks (TIBIA and ORCHESTRA blocks) will be played for the PEDAL KEYBOARD.

■ EFFECT SETTING SECTION
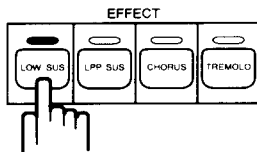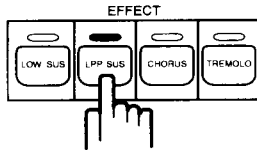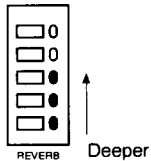
REVERB

Adjust the reverb (echo) effect to be added to the sound for UPPER, LOWER and PEDAL KEYBOARDs using the REVERB switches. Pressing the highest switch set the reverb at maximum level. And the lowest switch deactivates the reverb.

UPP.SUS

This adds a lingering SUSTAIN effect to the ORCHESTRA, PRESET INSTRUMENTS and TIBIA sounds of the UPPER KEYBOARD. Pressing the switch turns the switch lamp on and activates an effect. Press the switch again to turn off the lamp light and to deactivate the effect.

LOW.SUS

This adds a lingering SUSTAIN effect to the ORCHESTRA and PRESET INSTRUMENTS sounds of the LOWER KEYBOARD.

(PEDAL KEYBOARD ORCHESTRA CONTROL BLOCK)

PEDAL SUS
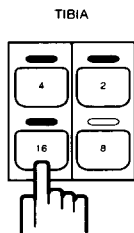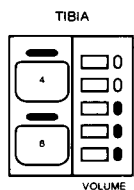
This adds a lingering SUSTAIN effect to the ORCHESTRA sounds of the PEDAL KEYBOARD.

■ TIBIA

1

TIBIA

2

TIBIA

VOLUME

TIBIA

VOLUME

3

TIBIA

VOLUME
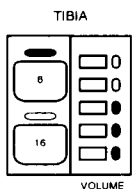
TIBIA sounds can be selected for LOWER, UPPER, and PEDAL KEYBOARDs.

1. **UPPER TIBIA**

   Select the TIBIA sound for use on the UPPER KEYBOARD. The TIBIA section can be played by selecting from four types of foot pitch combinations. (2', 4', 8' and 16')

   (1) Press the pitch switch in the UPPER TIBIA section to select the sound you want to play, and the lamp for the corresponding switch will light. Turn on some switches at the same time to select a desired tone combination.
   Note: These switches are toggles. Pressing the switch turns on the effect. Pressing it a second time turns it off.

   Press a key on the UPPER KEYBOARD to play the sound.

2. **LOWER TIBIA**

   Select the TIBIA sound for use on the LOWER KEYBOARD.

   (1) Press the pitch switch (4' and 8') in the LOWER TIBIA section to select the sound you want to play, and the lamp for the corresponding switch will light. Turn on two switches at the same time to select a tone combination.
   Note: These switches are toggles. Pressing the switch turns on the effect. Pressing it a second time turns it off.

   Press a key on the LOWER KEYBOARD to play the sound. Adjust the volume as necessary using the VOLUME switches. (Setting at its minimum level turns off the LOWER TIBIA.)

3. **PEDAL TIBIA**

   Select the TIBIA sound for use on the PEDAL KEYBOARD.

   (1) Press the pitch switch (8' and 16') in the PEDAL TIBIA section to select the sound you want to play, and the lamp for the corresponding switch will light. Turn on two switches at the same time to select a tone combination.
   Note:
   • These switches are toggles. Pressing the switch turns on the effect. Pressing it a second time turns it off.
   • You cannot play TIBIA sound independently for pedal keyboard.
   Press a key on the PEDAL KEYBOARD to play the sound. Adjust the volume as necessary using the VOLUME switches. Setting at its minimum level turns off the sound of PEDAL KEYBOARD.

■ EFFECTS FOR TIBIA SOUND
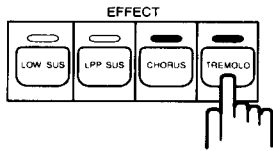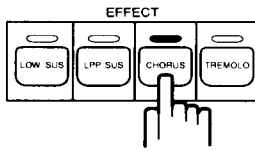
REVERB and CHORUS can be added to both UPPER and LOWER TIBIA sounds. And TREMOLO can also be added to the UPPER and LOWER TIBIA sound when CHORUS is "ON".

Note: These effect switches are toggles. Pressing the switch turns on the effect; pressing it a second time turns it off.

■ Effect Switches

1. CHORUS -This adds a slow swelling to the UPPER and LOWER KEYBOARDs TIBIA.
2. TREMOLO -This switches the UPPER and LOWER KEYBOARD CHORUS effects, if present, to TREMOLO. The sound swells much more quickly than CHORUS.

   Ex. Adding CHORUS or TREMOLO to the UPPER and LOWER KEYBOARDs.

   (1) Press the CHORUS switch to light the switch lamp on. The CHORUS effect will be added to the TIBIA sound for the UPPER and LOWER KEYBOARDs.

   (2) Press the TREMOLO switch while the CHORUS switch lamp is lit. The CHORUS effect will be canceled and the TREMOLO effect will be added to the TIBIA sound for the UPPER and LOWER KEYBOARDs.

   Note: It is impossible to use TREMOLO when the CHORUS switch is not lit.

7

■ ORCHESTRA

1

ORCHESTRA

STRINGS III BRASS III REEDS II

STRINGS | BRASS I | REEDS I | 0 0 ● ●
BRASS II | SELECT

STRINGS IV BRASS IV   VOLUME

ORCHESTRA

STRINGS III BRASS III REEDS II

STRINGS I | BRASS I | REEDS I | 0 0 ● ●
STRINGS II | BRASS II | SELECT

STRINGS IV BRASS IV   VOLUME

2

ORCHESTRA

STRINGS III VOCAL

STRINGS | REEDS I | 0 0 0 0 0
SELECT

BRASS II   VOLUME

3

PEDAL

ENS BASS   TIBIA
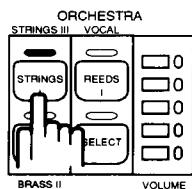
STRINGS BASS | SELECT | 8 | 0 0 ● ● ●
SUSTAIN | 16

TUBA   VOLUME

PEDAL

ENS BASS   TIBIA

STRINGS BASS | SELECT | 8 | 0 0 ● ● ●
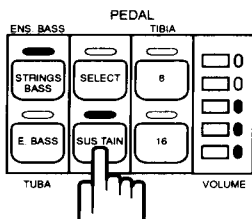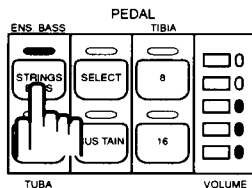E BASS | SUSTAIN | 16

TUBA   VOLUME

The XR300 offers ORCHESTRA section for the UPPER, LOWER, and PEDAL KEYBOARDs.

1. UPPER ORCHESTRA
   (Ex. Select the STRINGS I sound for the UPPER KEYBOARD.)
   (1) Press the STRINGS I switch in the UPPER MANUAL section to turn on the switch lamp. Adjust the volume as necessary using the VOLUME switches in the UPPER ORCHESTRA section. Set the volume at the lowest level if you do not want to play sounds in the UPPER ORCHESTRA section. (Ex. Select the STRINGS III sound for the UPPER KEYBOARD.)
   (2) Press the SELECT switch in the UPPER MANUAL section to turn on the switch lamp. (Press the SELECT switch again to turn off the switch lamp to return to the STRINGS I sound.)
   When the SELECT switch is activated, you can select the alternate sound (Ex. STRINGS III) indicated outside of the selector switches.

2. LOWER ORCHESTRA
   (Ex. Select the STRINGS I sound for the LOWER KEYBOARD.)
   (1) Press the STRINGS I switch in the LOWER MANUAL section to turn on the switch lamp. Adjust the volume as necessary using the VOLUME switches in the LOWER ORCHESTRA section. Set the volume at the lowest level if you do not want to play sounds in the LOWER ORCHESTRA section.
   (2) Press the SELECT switch in the LOWER MANUAL section to turn on the switch lamp. When the SELECT switch is activated, you can select the alternate sound (Ex. STRINGS II) indicated outside of the selector switches.
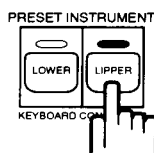
3. PEDAL ORCHESTRA
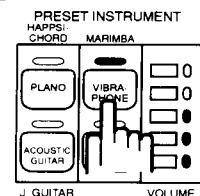   (Ex. Select the STRING BASS sound for the PEDAL KEYBOARD.)
   (1) Press the STRING BASS switch in the PEDAL MANUAL section to turn on the switch lamp.
   Note: Press the SELECT switch if you want to select the alternate sound (Ex. ENSEMBLE BASS) indicated outside of the selector switches.
   (2) If you want to add extra resonance (prolongs sound), press the SUSTAIN switch to turn the switch lamp on.

■ PRESET INSTRUMENT

1

PRESET INSTRUMENT

LOWER | UPPER

KEYBOARD CO...

2

PRESET INSTRUMENT

HAPPSI-CHORD   MARIMBA

PIANO | VIBRA-PHONE | 0 0 ● ●
ACOUSTIC GUITAR

J GUITAR   VOLUME

The XR300 provides PRESET INSTRUMENT for the LOWER or UPPER KEYBOARD.
(Ex. Select VIBRAPHONE sound for the UPPER KEYBOARD)
(1) Press the UPPER switch in the KEYBOARD CONDUCTOR section.
    (Press the LOWER switch if you want to play the PRESET INSTRUMENT sound with the LOWER KEYBOARD.)
    Note: It is impossible to play PRESET INSTRUMENT sound with UPPER and LOWER KEYBOARDs simultaneously.
(2) Press the VIBRAPHONE switch in the PRESET INSTRUMENT section.
    Notes:
    ● Adjust the volume as necessary using the VOLUME switches in the PRESET INSTRUMENT section. Set the volume at the lowest level if you do not want to play sounds in the PRESET INSTRUMENT section.
    ● Press the SELECT switch if you want to select the alternate sound (Ex. MARIMBA) indicated outside of the selector switches.
    ● PRESET INSTRUMENT sound will not play when the ACCOMP MELODY switch (which will be described later in this manual) lamp is lit.

8
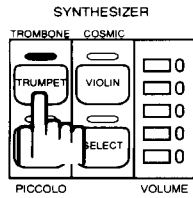
■ SYNTHESIZER

The XR300 provides SYNTHESIZER for UPPER KEYBOARD.
(Ex. Select TRUMPET sound for the UPPER KEYBOARD)
(1) Press the TRUMPET switch in the SYNTHESIZER section.
   Notes:
   • Only one note can be played at a time with the SYNTHESIZER section.
   • Adjust the volume as necessary using the VOLUME switches in the PRESET INSTRUMENT section. Set the volume at the lowest level if you do not want to play sounds in the SYNTHESIZER section.
   • Press the SELECT switch if you want to select the alternate sound (Ex. TROMBONE) indicated outside of the selector switches.

■ Hand Percussion
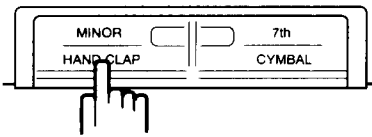
The XR Series organs provide not only prerecorded rhythm patterns, but also solo percussion instruments. These are accessible through two means: the LOWER keyboard and touch bars located just below that keyboard.

Touch bars
Press the left TOUCH BAR to play the hand clap sound. Press the right TOUCH BAR to play the cymbal crash sound.
Notes:
• When the HAND PERCUS switch lamp is lit, you cannot play HAND PERCUSSION sounds with the TOUCH BARS.
• Touch bars cannot be used for percussions on the ONE FINGER chord function. TOUCH BAR switch: allows you to select three types of DRUM SETs when the HAND PERCUS switch lamp is lit. When the HAND PERCUS switch lamp is lit, you cannot play HAND PERCUSSION sounds with the TOUCH BARS.

LOWER KEYBOARD
1 Press the HAND PERCUS switch so that the LED lights.
2 You can select three types of DRUM SET.
   Note: See page 20 for the drum sounds assignments.
   Press the left TOUCH BAR to select the DRUM SET 2. Press the right TOUCH BAR to return to the DRUM SET 1. If you press the right TOUCH BAR when the DRUM SET 1 is selected, the DRUM SET 3 will be selected. Press the right TOUCH BAR to return to the DRUM SET 1.
3 Press the keys on the LOWER KEYBOARD for the desired percussion instruments.(Refer to P.20)
4 Press the HAND PERCUS switch again to turn off the HAND PERCUSSION.
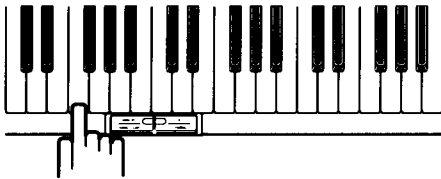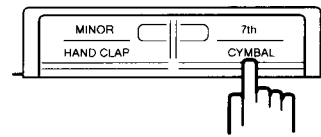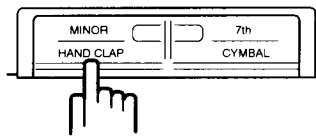
Drum set 2 ← → Drum set 1 ← → Drum set 3

■ TRANSPOSE Function

TEMPO DISPLAY

TEMPO DISPLAY
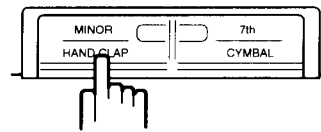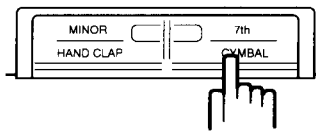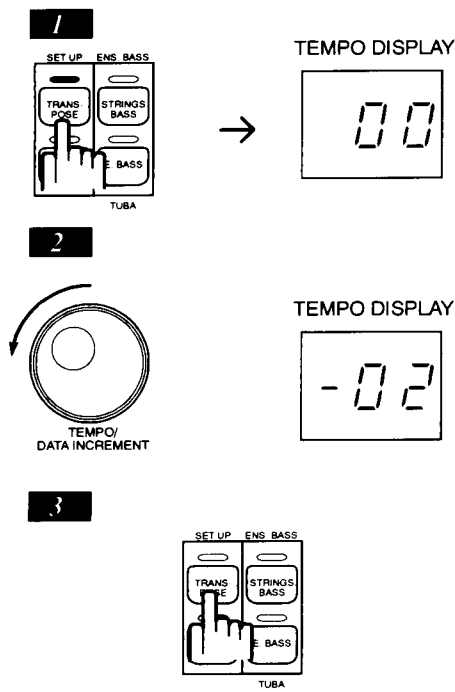
The transpose function allows you to adjust the key up 6 semi tones or down 6 semitones in semitone increments to match a vocalist or other instrument.

(1) Press the TRANSPOSE switch. The TRANSPOSE switch lamp lights and the display changes as follows.

(2) Use the Dial to change the parameter of the Display. You can adjust the parameter from -6 halfsteps to +6 halfsteps.

(3) Press the TRANSPOSE switch again to leave the TRANSPOSE setup mode.

■ TUNE CONTROL Function

TEMPO DISPLAY

TEMPO DISPLAY
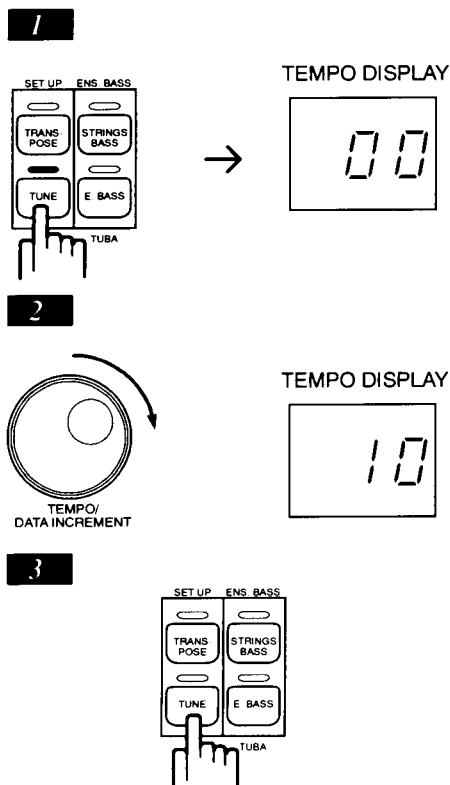
This function allows you to adjust the organ's pitch to match recordings or other instruments in an ensemble.

(1) Press the TUNE switch. The TUNE switch lamp lights and the display changes as follows.

(2) Use the Dial to change the parameter on the Display.

(3) Press the TUNE switch twice to leave TUNING CONTROL mode.

10

■ SYNTH. DETUNE Function

1

SET UP ENS. BASS

TRANS·POSE | STRINGS BASS

TUNE | E BASS

TUBA

→

TEMPO DISPLAY

```
00
```

2

TEMPO/
DATA INCREMENT

TEMPO DISPLAY

```
10
```

3

SET UP ENS. BASS

TRANS·POSE | STRINGS BASS

TUNE | E BASS

TUBA
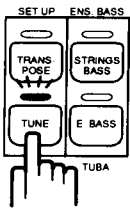
This function allows you to vary the pitch of the SYNTHESIZER sounds on the XR300 slightly from the other sounds pitch for a rich "Detune" sound effect.

(1) Press the TUNE switch twice. The TUNE switch lamp lights and the display changes as follows.

(2) Use the Dial to change the parameter on the Display.

(3) Press the TUNE switch again to leave SYNTH DETUNE mode.

■ SELECTING AN AUTO PLAY ORCHESTRA STYLE

The AUTO PLAY ORCHESTRA section of your XR300 provides 24 styles of automatic accompaniment. Each style consists of three elements (rhythm, bass, and accompaniment melody parts).

◆ Selecting a Rhythm Pattern

AUTO PLAY ORCHESTRA

AUTO PLAY ORCHESTRA

PROCEDURE
(Ex. Selecting the LATIN II rhythm.)
(1) Press the LATIN II switch. The switch lamp lights. To select a variation pattern, press the VARI switch and the switch lamp lights. To return to the normal pattern, press the VARI switch again to turn off the switch lamp.
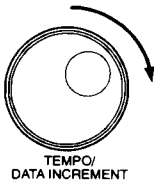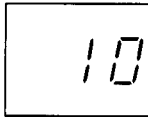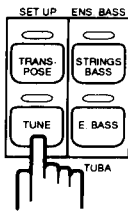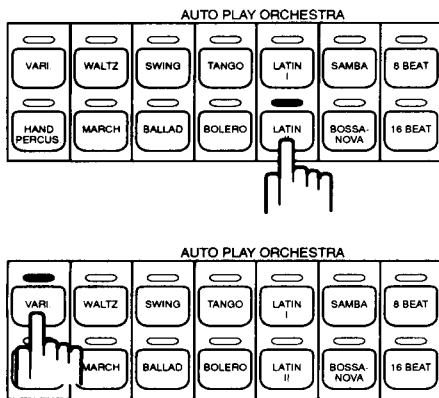   Note: AUTO PLAY ORCHESTRA switches allow you to select any one of the 12 patterns. VARI (Variation) switch allows you to select variation pattern for each of the 12 preset patterns.

(This illustration shows Japanese version of XR300.)

◆ RHYTHM CONTROL

or
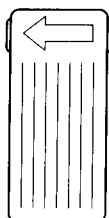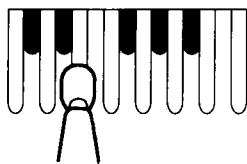
Procedure 1. How to start the rhythm pattern.
(1) Press the RHYTHM switch to turn on the switch lamp.
(2) Play a note on the LOWER or PEDAL KEYBOARD to start the rhythm accompaniment.
    Note: Use the RHYTHM VOLUME switches to control the rhythm volume. Change the rhythm tone using the RHYTHM TONE switches. The upper end of the RHYTHM TONE control emphasizes the percussion sounds of higher pitch while the lower end emphasizes the percussion sounds of lower pitch.

How to stop the rhythm pattern.
(1) Press the RHYTHM switch. The RHYTHM switch lamp turns off and the rhythm accompaniment will stop. You can also stop the rhythm using the left FOOT SWITCH.

■ FILL INs, INTRO, and ENDING

The three switches in this section offer the musician four prerecorded variations of the MAIN rhythm pattern -a pattern which normally just repeats. The first two, INTRO and ENDING, provide an introduction and ending respectively. The other two produce variations of rhythm fill-ins for use during the performance.
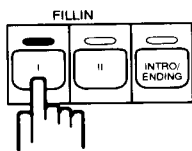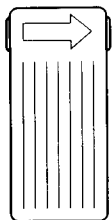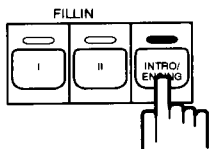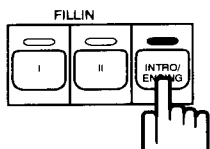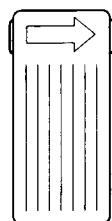
Procedure 2. FILL INs
(1) Make sure that the rhythm accompaniment is on standby -that is, the RHYTHM switch LED is on. If the LED is off, fill-ins are not available.
(2) Press the FILL IN I (or FILL IN II) switch.
   Note: You may also do this while the rhythm accompaniment is on.
(3) Activate the rhythm accompaniment and play. When you need a fill-in, press the right FOOT SWITCH. The rhythm pattern first switches to the Fill-in pattern and then back to the MAIN pattern when the fill-in is over.
(4) Alternatively, if the rhythm accompaniment is on standby, press the right FOOT SWITCH to play the fill-in followed by the MAIN pattern.

Procedure 3. INTRO and ENDING
(1) Make sure that the rhythm accompaniment is on standby -that is, the RHYTHM switch lamp is on. If the lamp is off, intro is not available.
(2) Press the INTRO/ENDING switch. After an introduction, the BASIC rhythm accompaniment starts. The INTRO/ENDING switch LED lights during the introduction and then goes out.
(3) Press the INTRO/ENDING switch.
(4) When you're near the point where you want the ending, press the right FOOT SWITCH. After the ending, the rhythm accompaniment stops. The LED in the INTRO/ENDING switch lights during the ending and then goes out.

INTRO/ENDING switch: provides an introduction or ending.
FILL IN I/II switches : produce variations of rhythm fill-ins for use during the performance.

◆ Tempo Control
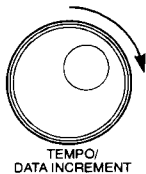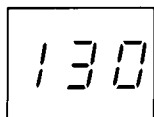
TEMPO DISPLAY
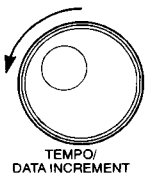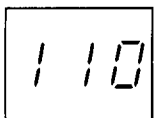
TEMPO DISPLAY

The tempo is shown on the TEMPO DISPLAY.
(1) Turning the TEMPO/DATA INCREMENT Dial to the right (clockwise) increases tempo.
(2) Turning the Dial to the left (counter-clockwise) decreases the tempo.
   Note: The organ's range is 50 -300 beats per minute.

◆ SELECTING A PART
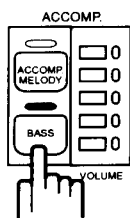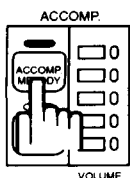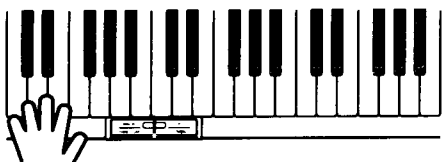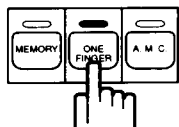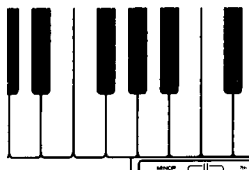
This section offers automatic bass accompaniment as well as automatic accompaniment by piano, guitar, and other instruments.

(Ex. Playing the rhythm, bass, and accompaniment melody parts.)

(1) Select a rhythm using the AUTO PLAY ORCHESTRA switches. Then, activate the RHYTHM switch.
(2) Select the parts.
Press the BASS switch to activate the "BASS" Part.
(3) Press the ACCOMP MELODY switch to activate the "accompaniment melody" Part.
Note: PRESET INSTRUMENT sound will not play when the ACCOMP MELODY switch lamp is lit.
(4) Play a chord on the LOWER KEYBOARD. You will hear the bass, rhythm, and accompaniment melody parts.
Note: Adjust the overall volume of the ACCOMP MELODY and BASS parts using the ACCOMP VOLUME switches.

■ CHORD DETECTION
ONE FINGER
This function allows you to play a complete major chord with only one finger and others with two fingers: one on the base (root) note and the other on TOUCH BARs.
(1) Press the ONE FINGER switch to turn on the switch lamp.
(2) – Press a root note in the LOWER KEYBOARD to play the major chord.
– Press a root note and the left TOUCH BAR to play the minor chord.
– Press a root note and the right TOUCH BAR to play the seventh chord.
– Press a root note and the two TOUCH BARs simultaneously to play the minor seventh chord.
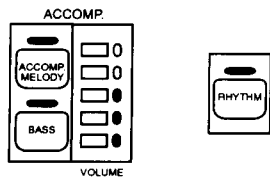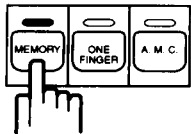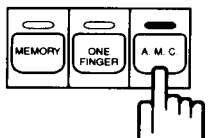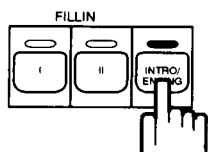
MEMORY

This repeats the current chord pattern even after you remove your hand from the LOWER KEYBOARD.

Let's select a chord for the introduction using the MEMORY function.

(1) Select the part you want to play.
(2) Press the MEMORY switch to turn on the switch lamp.
(3) While holding down the left foot switch, play a chord on the LOWER keyboard to assign the chord for the introduction.
(4) Depress the left foot switch
(5) Press the INTRO/ENDING switch to start the introduction.

Pressing the left foot switch

■ AUTO MELODY CHORD

If you press the A.M.C. switch to turn the lamp on, automatic harmony will be added to the UPPER KEYBOARD melody line according to the chord you are playing in the LOWER KEYBOARD. Press the A.M.C. switch again to turn off this function.

Chapter 3 REGISTRATION

■ Registration Memory
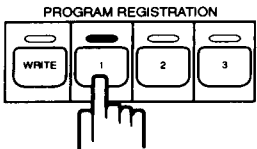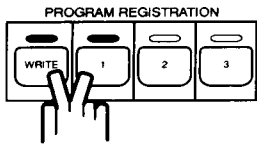
The registration memory section allows you to store up to 3 of your registration combinations for instant recall.

Note: The following types of data cannot be stored on the REGISTRATION section.

• TOTAL VOLUME, ONE TWO PLAY, TUNE, INTRO/ENDING switches

■ Storing a Registration

(1) Set the registration to be stored.
(2) While pressing the WRITE switch, press the numbered switch to be used for storage. The registration will be stored. If the numbered switch stores other data, the previously stored data will be erased.

■ Recalling a Registration

(1) Press the appropriate number switch so that it lights. The registration will be recalled.

■ ONE TWO PLAY

The ONE TWO PLAY function automatically selects an appropriate registration for the current AUTO PLAY ORCHESTRA pattern.

(1) Press the ONE TWO PLAY switch. Panel settings automatically change to ones appropriate for the current Auto Play Orchestra pattern.

Note: Pressing the ONE TWO PLAY switch when a registration switch lamp is lit changes the current registration.

Chapter 4 MIDI

The letters MIDI stand for the Musical Instrument Digital Interface, an industry standard for connecting synthesizers, drum machines and other electronic musical instruments so that they can exchange keyboard program and other types of data. Through this interface, the organist can play a wide variety of instruments from a single instrument. (The types of data that may be controlled vary with the instruments connected through this interface.)

■ Connectors

To transmit MIDI data from your XR300 to another MIDI instrument, use an optional MIDI cable to connect the MIDI OUT jack of your XR300 to the MIDI IN jack of the other instrument. Make sure that the MIDI "transmit" channels on your XR300 match the MIDI "receive" channels of the other instrument.

To receive MIDI data from another MIDI instrument to your XR300, use a MIDI cable to connect the MIDI OUT jack of the other instrument to the MIDI IN jack of your XR300. Make sure that the MIDI "receive" channels on your XR300 match the MIDI "transmit" channels of the other instrument.

■ Channels

If the MIDI channels of the transmitting instrument and receiving instrument do not match, data cannot be exchanged.
The MIDI channels of the XR300 cannot be changed. The organ always assigns the following MIDI channels to the keyboard in transmitting and receiving MIDI data.

UPPER KEYBOARD:	Channel 1
LOWER KEYBOARD:	Channel 2
PEDAL KEYBOARD:	Channel 3
HAND PERCUSSION:	Channel 10
SYSTEM CONTROL CHANGE:	Channel 16

```
┌─────────────────────────┐
│                         │
│     Synthesizer         │
│     (KII or other)      │
│                         │
├──────────┬──────────────┤
│ MIDI IN  │    LINE OUT  │
│          │              │
│ MIDI OUT │    LINE IN   │
├──────────┴──────────────┤
│                         │
│        XR300            │
│                         │
└─────────────────────────┘
```

```
┌─────────────────────────┐
│                         │
│      Sequencer          │
│      (Q-55 or other)    │
│                         │
│             ┌───────────┤
│             │  MIDI OUT │
│             │           │
│             │  MIDI IN  │
├─────────────┴───────────┤
│                         │
│        XR300            │
│                         │
└─────────────────────────┘
```

```
┌─────────────────────────┐
│                         │
│     Drum Machine        │
│                         │
├──────────┬──────────────┤
│ MIDI IN  │    LINE OUT  │
│          │              │
│ MIDI OUT │    LINE IN   │
├──────────┴──────────────┤
│                         │
│        XR300            │
│                         │
└─────────────────────────┘
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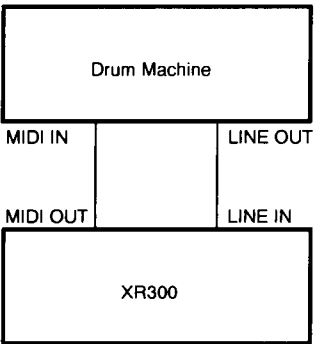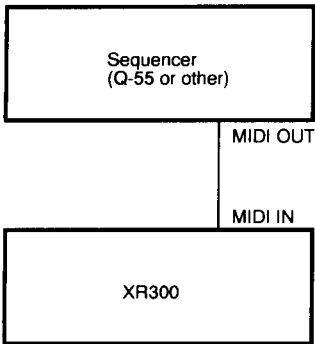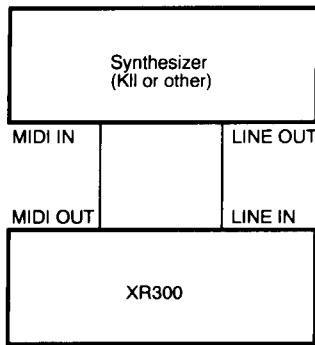
■ Connecting Examples

(Ex. Playing a synthesizer from the UPPER KEYBOARD of the organ.)

(1) Using a MIDI cable, connect the MIDI OUT terminal on the organ to the MIDI IN terminal on the synthesizer. Then, connect the LINE OUT jacks on your synthesizer to the LINE IN jacks on your XR300 using audio cables.

(2) Play a note on the UPPER KEYBOARD. Both the XR300 and your synthesizer will play if your synthesizer set to receive on channel 1. That is, you can use both tone colors of the XR300 and your synthesizer.

(Ex. Playing the XR300 using an external sequencer.)

(1) Using a MIDI cable, connect the MIDI IN terminal on the organ to the MIDI OUT terminal on the sequencer so that the sequencer can control the organ.

(2) Make sure that the MIDI "receive" channels on your XR300 match the MIDI "transmit" channels of your sequencer. (Ex. Channel 10 for percussion sounds.)

(3) Start playing the song on your sequencer and the XR300 will play.

Note:
- Some data cannot be recognized with the XR300. See the MIDI implementation chart at the end of this manual for the data that can be recognized by the XR300.
- Tempo is controlled on XR300.

⚠️ *Turning off the power or disconnecting the interface cable while a sound is being played may cause the receiving instruments to sound continuously. Cut the power to silence the instrument.*

(Ex. Playing a drum machine from the organ.)

If your MIDI device is designed to receive clock signals, rhythm tempo of the MIDI device can be played synchronously with the AUTO PLAY ORCHESTRA of the XR300. A start/stop signal is output from the XR300 when you start or stop a rhythm or automatic accompaniment. Tempo is controlled on the XR300.

■ TROUBLE SHOOTING

Symptom	Check the following
1. The keyboard makes no sound.	When all the TIBIA switch lamps are turned off and the VOLUME switches are at their minimum level, the keyboard makes no sound. Set the appropriate volume using the VOLUME switches.
2. The product generates noise.	Motors, neon, or other equipment can be a source of electrical interference creating noise in the sound output. Try changing locations and plug into an outlet that is not being used by devices that draws a lot of current.
3. You can hear the TV or radio sound.	This may happen when there is a broadcasting station near the organ. Consult your KAWAI dealer.
4. TREMOLO is not available.	TREMOLO is not available when the CHORUS switch is off. Press both the TREMOLO and CHORUS switches on to activate the TREMOLO effect.
5. The AUTO PLAY ORCHESTRA does not play.	Turn the lamps of the RHYTHM, BASS, and ACCOMP MELODY switches on to play AUTO PLAY ORCHESTRA.

■ DRUM ASSIGNMENT

<XR300>

Key Name	Drum set 1	Drum set 2	Drum set 3
F1	Low F Tom		Belltree
G1	Hi F Tom	BOB BD	MuteSurdo
A1	Low F Tom	BOB SD	Elec.BD
B1	Low-Mid-Tom	BOB CloseHH.	Elec.Lo Tom2
C2	Hi-Mid-Tom	BOB LoTom1	Elec.Lo Tom1
D2	High F Tom	BOB OpenHH	Elec.Mid Tom1
E2	ChinaCym.	BOB Cym.	Elec.Hi Tom1
F2	RideBell	BOB HiTom2	ReverseCym.
G2	SplashCym2	BOB Cowbell	Brush Slap
A2	TopCym2	BOB MidConga	Jazz BD
B2	SidCym2	BOB Maracas	Concert BD1
C3	Hi Bongo	BOB Claves	Concert SD
D3	Mute Hi conga	Gated SD	Timpani F#
E3	Lo Conga	PowerTomLow1	Timpani G#
F3	Hi Timbale	PowerTomMid2	Timpani A
G3	High Agogo	PowerTomHi2	Timpani B
A3	Cabasa	**MUTE**	Timpani C#
B3	Short Whistle	Slap	Timpani D#
C4	Long Guiro	Scrach Push	Timpani E
D4	Long Guiro	Sticks	Concert Cym2
E4	Hi Wood Block	Metronome Click	Applause
F4	Lo Wood Block	Metronome Bell	Room Tom Low2
G4	Open Triangle	Bass Drum 1	Room Tom Mid2
A4	Open Triangle	Ac Snare 1	Room Tom Hi2
B4	Jingle bell	Ac Snare 2	EFF Clap
C5	Belltree	Low F Tom	Echo Gras

■ SPECIFICATIONS

KEYBOARDS (Upper/Lower/Pedal)		44/44/13
TONE COLORS		
TIBIA	UPPER LOWER PEDAL	2′, 4′, 8′, 16′ 4′, 8′ 8′, 16′
ORCHESTRA	UPPER LOWER PEDAL	10 Tone Colors 6 Tone Colors 4 Tone Colors
PRESET INSTRUMENTS	UPPER/LOWER	6 Tone Colors
SYNTHESIZER	UPPER	6 Tone Colors
EFFECTS	(TIBIA)	DIGITAL REVERB, SUSTAIN CHORUS, TREMOLO
PERCUSSION		128 Percussion Instruments
AUTO PLAY ORCHESTRA		24 Preset Styles (Rhythm, Bass, Accompaniment Melody, Rhythm Volume/Tone)
REGISTRATION MEMORY		3
DISPLAY		LED (3 letters)
CONTROL		Increment Dial, One Two Play, Tuning, Transpose, Expression Pedal, Foot Switch(L, R), Touch Bar (L, R)
JACK		Headphones, LINE IN (L, R), LINE OUT (L, R), MIDI (IN, OUT), LINE IN MODE
SPEAKER		25 cm × 1, 6 cm × 1 40W
DIMENSIONS		113 × 56 × 99 (cm)
WEIGHT		66 kg

Specifications subject to change without notice

Function		TRANSMITTED	RECEIVE	REMARKS
Basic Channel	(Default)	1,2,3,10,16 *1	1,2,3,10,16 *1	*1 1: UPPER
	(Changed)	X	X	2: LOWER
				3: PEDAL
				10: DRUMS
				16: CONTROL
				CHANGE
Mode	(Default)	3	3	
	(Changed)	X	X	
	(Altered)	X	X	
Note Number		31 – 102 *2	0 – 127	*2 UPPER: 48 – 102
	(True Voice)	–	–	LOWER: 36 – 90
				PEDAL: 31 – 54
Velocity	(Note ON)	X V = 64	O	
	(Note OFF)	X	X	
After Touch	(per Key)	X	X	
	(per Channel)	X	X	
Pitch Bend		X	X	
Control Change 7		O *3	O *3	Total Volume
11		O *3	O *3	Expression
				*3 : Channel 16 only
Program Change		X	X	
Exclusive		O		
System: Common				
(Song Position)		X		
(Song Select)		X		
(Tuning)		X		
System: Real Time				
(Clock)		O		
(Commands)		O		(FA, FC)
Others				
(Local ON/OFF)		X		
(All Notes OFF)		O		(123)
(Active Sense)		O		
(Reset)		X		

Mode 1: OMNI ON, POLY Mode 2: OMNI ON, MONO O : YES
Mode 3: OMNI OFF, POLY Mode 4: OMNI OFF, MONO X : NO

KAWAI