

PRELIMINARY

# Technics

ORGAN

SX-EX15 (L)

SX-EX25 (L)

SX-EX35



Vol. 1

# Technics

## OWNER'S MANUAL

### Caution

Voltage (except North America, West Germany, Norway, Sweden, Denmark and Finland)

Be sure the voltage adjuster (located on the rear panel) is in accordance with local voltage in your area before using this unit. Use a screwdriver to set the voltage adjuster to the local voltage.

**WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRICAL SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.**

BEFORE YOU PLAY, PLEASE READ THE CAUTIONARY COPY APPEARING ON PAGE 17.

**IMPORTANT (for UNITED KINGDOM)**  
THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:

BLUE — NEUTRAL  
BROWN — LIVE

As the colours of the wires in the mains lead of this unit may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows.

The wire which is coloured BLUE must be connected to the terminal with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal marked with the letter L or coloured RED.

This apparatus was produced to BS 800: 1977.

#### FOR CANADA

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

#### POUR CANADA

L'interférence radioélectrique générée par cet appareil numérique de type B ne dépasse pas les limites énoncées dans le Règlement sur les perturbations radioélectriques, section appareil numérique, du Ministère des Communications.

Vol. 1 comprises a basic explanation of the Technics Organ and its functions, and Vol. 2 details practical applications, particularly of the many storage functions. A thorough understanding of the basic functions should be acquired before attempting to use the advanced applications.

# BASIC FUNCTIONS

This section comprises an explanation of voices and effects, rhythm and the fundamental workings of the Technics Organ. The circled numbers on the separate sheet correspond to the section numbers in this instruction manual.

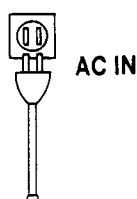
## Part I Introduction

# ① Playing your Technics is easy!

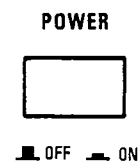
### Let's get ready.

1. Plug the power cord into an outlet.
2. Turn the **POWER** switch on.

①



②



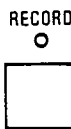
### Let's set the standard settings <initial mode>.

Various recording operations are possible with this organ. By performing this <initial mode> operation, the factory preset settings are designated. On the EX25/EX35, the contents stored in the **PLAY SEQUENCER** and **FULLBAND SETTING COMPUTER** are left as they are.

#### ■ EX15

1. Press the **RECORD** button. The indicator flashes.
2. Press the **MODE SET (ONE TOUCH PLAY)** button. The indicator flashes slowly.
3. Press the **INITIAL** key on the lower keyboard.

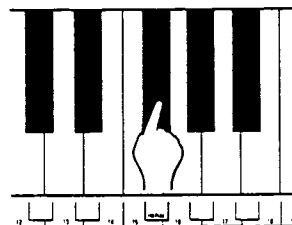
①



②



③



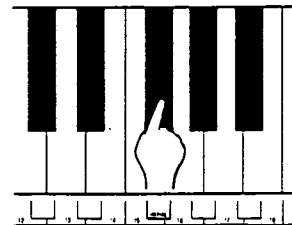
#### ■ EX25/EX35

1. Press the **FSC** button to turn it on.
2. Press the **INITIAL** key on the lower keyboard.

①



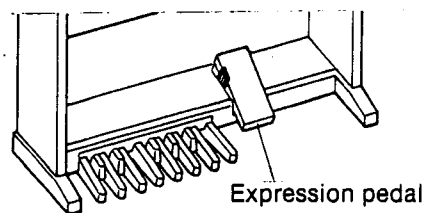
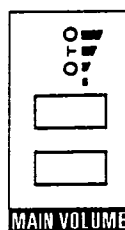
②



### Let's play.

Now let's play a song. Adjust the **MAIN VOLUME** to an appropriate level.

The sound can be regulated with the expression pedal.



Most buttons are equipped with indicators which light up when in operation.

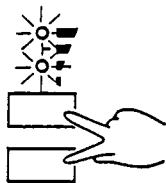
### Controls

Volumes and effects on this organ are controlled by 4-stage buttons, except the **TRANSCOPE** and **TEMPO** controls.

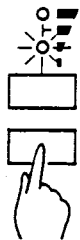
#### VOLUME, REVERB (EX35)



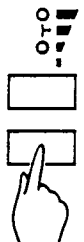
•When the upper button is pressed, the upper indicator lights up and the volume or effect is at the maximum.



•If both buttons are pressed simultaneously, the volume or effect returns to the normal or intermediate level and both indicators turn on.

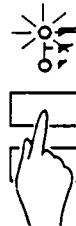


•When the lower button is pressed, the lower indicator lights up and the volume or the effect is decreased.

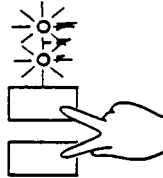


•If the lower button is pressed again, the volume or effect is at the minimum (or turned off, in the case of **DRUMS**, **ACCOMP** and **REVERB** [EX35]) and both indicators are off.

### SUSTAIN



•When the upper button is pressed, the upper indicator lights up and the sustain effect is at the maximum.



•If both buttons are pressed simultaneously, the sustain effect returns to the normal or intermediate level and both indicators turn on.



•If the lower button is pressed when either or both of the indicators are lit, the sustain effect is turned off and both indicators turn off.

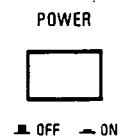
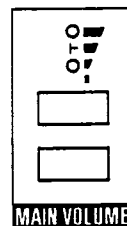


•When the lower button is pressed again, the lower indicator lights up and the sustain effect is at the minimum.

### Power/main volume

Pressing the **POWER** switch turns the organ on.

**MAIN VOLUME** adjusts the loudness of the entire organ.



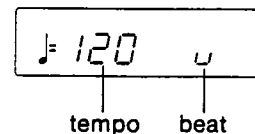
## Musical Display

In the normal performance mode, the tempo and beat of the rhythm are displayed.

- If **TRANSCOPE** is active, the transposed key is also displayed.
- When you play using the Auto Play Chord feature or **PROGRAM CHORD COMPUTER**, the rhythm tempo and chord name are displayed.
- When storing the **PROGRAM CHORD COMPUTER**, **PLAY SEQUENCER**, etc., the contents being stored are displayed. (Refer to each section for details.)

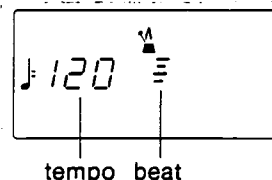
### MUSICAL DISPLAY

■EX15



■EX25/EX35

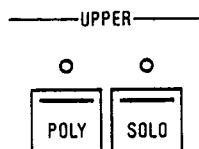
When the rhythm starts, the metronome on the display begins swinging.:



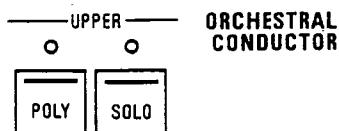
# Part II Basic creation of voices and effects

## ② Orchestral Conductor

ORCHESTRAL CONDUCTOR

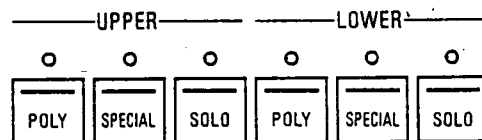


(EX15)



(EX25)

ORCHESTRAL CONDUCTOR



(EX35)

The **ORCHESTRAL CONDUCTOR** is the nerve center of the Technics organ. It allows you to instantly set up complete groups of voices or instrumental effects; you can even change them as you play. This adds a versatility to your playing that few professionals enjoy.

Understanding the **ORCHESTRAL CONDUCTOR** is easy if you think of each button as an "on-off switch" that controls the voice group indicated. The buttons each have an indicator that illuminates when the button is pressed. Here is a basic description of each button that appears on the various models:

- **EX15/EX25:** **UPPER POLY** and **UPPER SOLO** can be selected.
- **EX35:** **POLY**, **SPECIAL** and **SOLO** can be selected independently for **UPPER** and **LOWER**. **SPECIAL** and **SOLO** can each be selected for either **UPPER** or **LOWER**, but not for both.

All of these buttons are self-canceling. To deactivate one, you must press another. If you wish to combine some of the sounds, press two or more buttons at the same time or hold one down and press another.

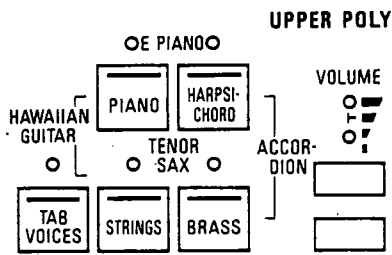
All voices of the Technics organ are reproductions of true instrumental effects made possible by the PCM system. Treble and bass sounds outside the range of the real instruments can also be produced. Particularly in the bass range, the tones start up slowly. Therefore, if you play fast, use the treble range for the most effective performance.

- **Number of notes that sound simultaneously from both upper and lower keyboards.**

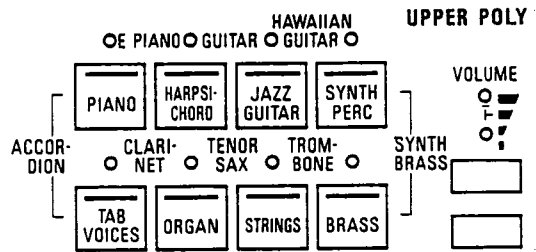
	Upper	Lower
EX15	7*	4
EX25	6	8*
EX35	8	8

\*4 when **ACCOMP VOLUME** is on

# 3 Upper Poly



(EX15)



(EX25/EX35)

**POLY** brings in both diminishing sounds such as the piano and sustained sounds such as the trombone. (The **TAB VOICES** button must be off.)

- On the EX35, you can choose one of the 10 factory-preset organ voices and set it in the **ORGAN** button. (Refer to 25.)
- Adjust the volume using the **VOLUME** buttons for **UPPER POLY**.

- Pressing two adjacent buttons simultaneously will produce the voice which is indicated between the two buttons.
- Voices cannot be mixed.

## Tab Voices

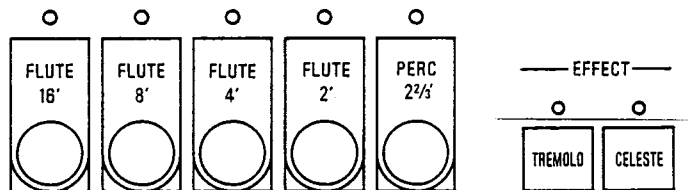
If the **TAB VOICES** button is pressed on, the flute sounds can be set with the buttons of the **UPPER TAB VOICES** section.

- On the EX25/EX35, pressing the **TAB VOICES** button and the **PIANO** button at the same time selects the **ACCORDION** voice.

**FLUTE:** Press these buttons to select flute sounds and combine them as desired. When two or more **FLUTE** buttons are selected, pressing only one key on the keyboard produces the sound of multiple keys.

**PERC:** This feature adds a tone with a fast initial attack to any of the flute sounds; or it may be used alone. The effect is what you hear when a player strikes a piano key or plucks a banjo string.

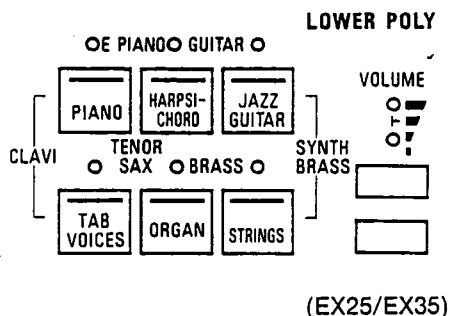
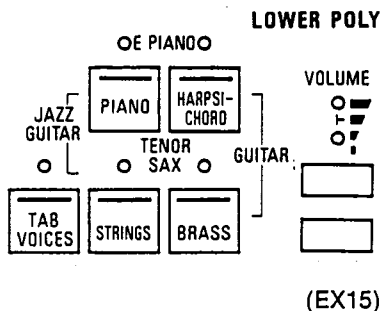
### UPPER TAB VOICES



## Footage marks

To help you use the flute sounds most effectively, you should know something about the numbers that appear on the **FLUTE** buttons. These are called footage marks because they refer to the lengths of pipe used to create musical tones on a pipe organ. The bigger the number (or length of pipe), the lower the tone.

# ④ Lower Poly



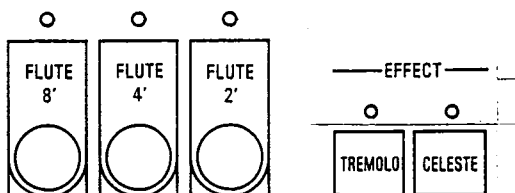
These voices are heard when you play on the lower keyboard; they are used mostly for accompaniment, played by your left hand.

The LOWER POLY buttons are operated and function like the UPPER POLY buttons.

## Tab Voices

When the TAB VOICES button is on, you can press the LOWER TAB VOICES buttons to select flute voices and combine them as desired.

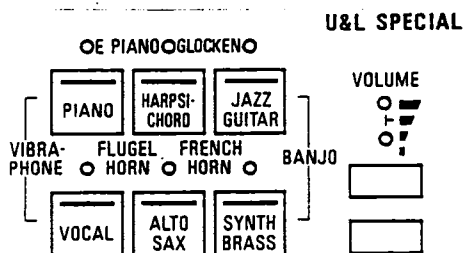
### LOWER TAB VOICES



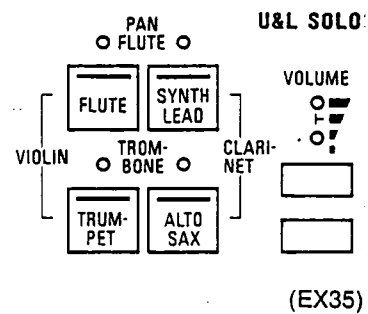
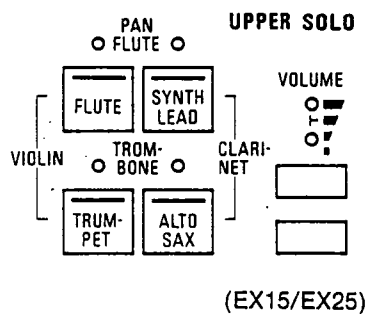
# ⑤ Special (EX35)

SPECIAL is comprised of both diminishing sounds and sustained sounds, and can be selected for either the upper or lower keyboard by the ORCHESTRAL CONDUCTOR buttons.

- SPECIAL voices cannot be mixed.



## 6 Solo



All these sounds are monophonic, which means they will sound on only one key at a time no matter how many keys you press.

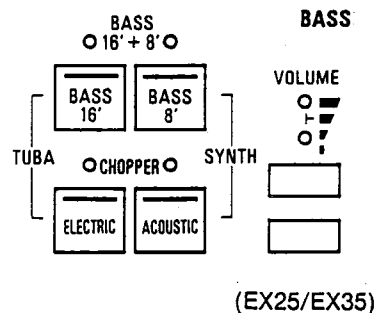
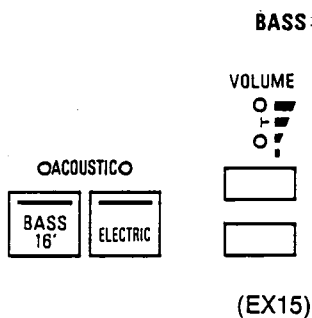
EX15/EX25: UPPER SOLO only is available.

EX35: you can select either UPPER or LOWER SOLO.

VOLUME buttons let you adjust volume levels.

- When selecting only **SOLO** on the **ORCHESTRAL CONDUCTOR**, the key pressed will sound without any lag, so that rapid passages can be easily played up and down the keyboard.
- You can combine **SOLO** and **POLY** voices for the upper keyboard (EX15/EX25) or for either keyboard (EX35) using the **ORCHESTRAL CONDUCTOR**. Play the chord with your left hand and the melody with your right hand. If you remove your right hand from the keyboard, the **SOLO** voice will not shift to the left hand so that the melody can be successfully played. (When the interval between the chord and melody is less than three keys away, the **SOLO** voice will shift to the left hand.)

## 7 Bass

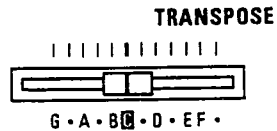


These buttons also utilize the PCM system to provide the full body of real-life bass sounds.

VOLUME allows you to adjust the loudness of the pedal voices in relation to the upper and lower keyboard voices.



# 8 Transpose



Suppose you learn to play a song—in the key of C, for example—and decide you want to sing it, only to find it's either too high or too low for your voice. Your choice is to either learn the song all over again, in a different key, or to use the **TRANSPOSE** feature.

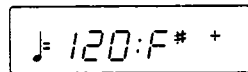
Adjust the key by moving the slide control from the normal key of C.

If the key is transposed, the uppermost or lowermost range of the keyboard may be subject to octave shift.

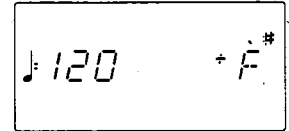
## MUSICAL DISPLAY

The transposed key is shown.

■EX15



■EX25/EX35



•Key names C#, D#, G $\flat$ , G#, and A# are displayed as D $\flat$ , E $\flat$ , F#, A $\flat$  and B $\flat$ , respectively.

# 9 Techni-Chord

TECHNI-CHORD



(EX15)

TECHNI-CHORD



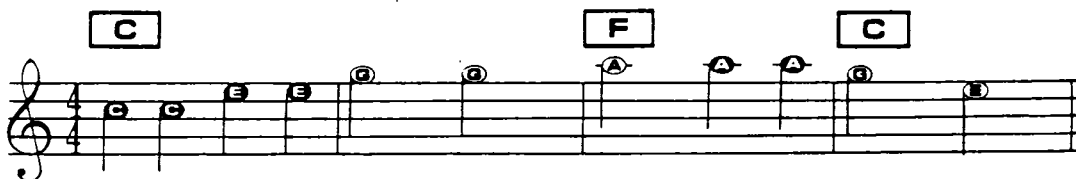
SONG SELECT

(EX25/EX35)

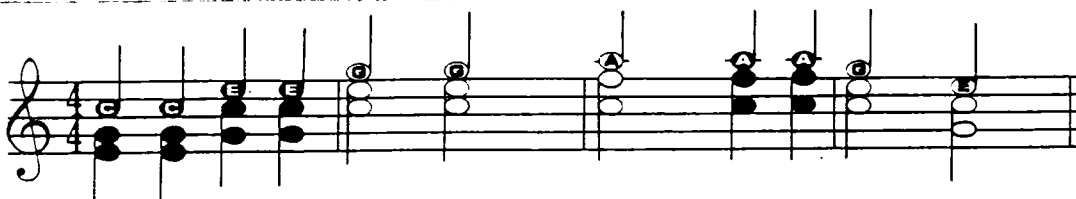
**TECHNI-CHORD** makes your melodies sound like those of a professional organist by transferring the chord notes you play on the lower keyboard to each melody note you play on the upper keyboard.

Set up your organ to play the example below—use either the one-finger mode, or form your own.

## Holy, Holy, Holy



Now press the **ON** button and play the example again. Here's how your one-finger melody looks when written out—three-note melody chords! (For the EX25/EX35, the **CLOSE/PROGRAM** button should be off.)

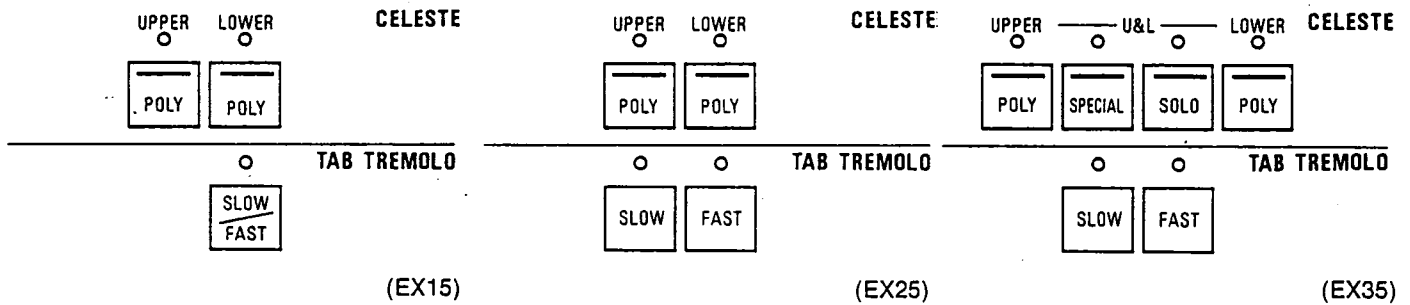


**TECHNI-CHORD** functions for any sound other than the **SOLO** sounds.

**TECHNI-CHORDs** cannot be played using the lower seven keys of the upper keyboard.

On the EX25/EX35, now press the **CLOSE/PROGRAM** button to play the harmony style selected from among four different preset harmony styles. (Refer to 27.)

# 10 Effect (Celeste/Tremolo)



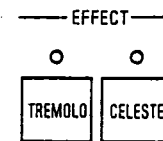
## Celeste

**CELESTE** is a multi-directional effect which makes you feel you are playing in a huge concert hall or cathedral.

When the **UPPER POLY** button is on, the **CELESTE** effect is applied to all the **UPPER POLY** voices other than **TAB VOICES** and **ORGAN** (EX25/EX35). **LOWER POLY** allows you to do the same with **LOWER POLY** voices.

**U&L SPECIAL** and **U&L SOLO** apply the celeste effect to these voice groups (EX35 only).

- To apply the **CELESTE** effect to the **TAB VOICES** or **ORGAN** voice (EX25/EX35) of the **POLY** section, turn on the **CELESTE** button in the **UPPER** or **LOWER TAB VOICES** section.



## Tremolo

The basic effect of **TREMOLO** is a rapid change in volume (loudness).

This effect works only for the **TAB VOICES** and the **ORGAN** (EX25/EX35) in the **POLY** section. To use the tremolo effect, press to turn on the **TREMOLO** button in the **TAB VOICES** section.

- The **TREMOLO** and **CELESTE** effects cannot be used together. To use the **TREMOLO**, turn off the **CELESTE** buttons for all voice groups which are turned on in the **ORCHESTRAL CONDUCTOR**.

Two **TREMOLO** speeds, **SLOW** and **FAST**, are selectable.

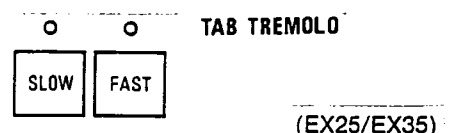
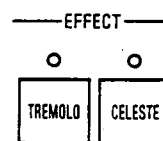
### EX15

When the **SLOW/FAST** button in the **TAB TREMOLO** section is on, the **FAST** tremolo speed is selected.

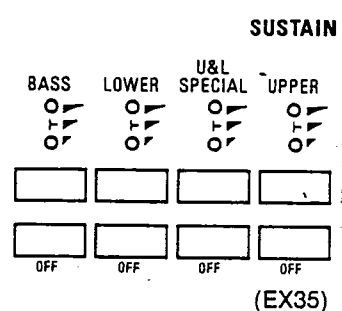
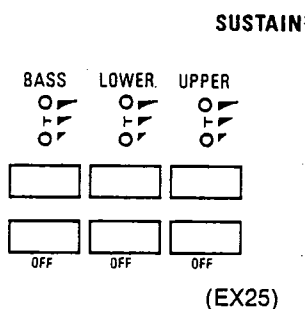
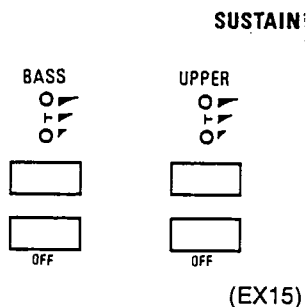
### EX25/EX35

Press the **SLOW** button or the **FAST** button in the **TAB TREMOLO** section to select the tremolo speed.

- The **TREMOLO** speed can be adjusted. (Refer to 28.)



# 11 Sustain



These Technics models have sustain incorporated in their upper and lower keyboards and pedals (except for **LOWER POLY** on the EX15 and **SOLO**).

Regardless of where it is used, sustain allows the sound of the notes to gradually fade away (decay) after the key is released.

- **SUSTAIN** does not function for the following voices:  
**POLY:** ACCORDION, BRASS, CLARINET,  
 TENOR SAX, TROMBONE  
**U&L SPECIAL:** VOCAL, ALTO SAX, FLÜGELHORN,  
 FRENCH HORN

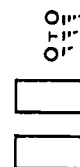
Sustain can be applied selectively to individual groups of sounds.

- **UPPER POLY** sustain is adjusted with the **SUSTAIN UPPER** buttons.
- On the EX25/EX35, use the **SUSTAIN LOWER** buttons to adjust the **LOWER POLY** sustain.
- Operation of the **SUSTAIN** controls is explained in detail on page 3.

# 12 Reverb (EX35)

Reverb is an abbreviation for reverberation. If you've walked down a narrow, uncarpeted hallway, you may recall that your footsteps "echoed," or became louder than usual. This was due to the sound waves bouncing from the walls and ceiling instead of being absorbed into the carpeting, furniture and draperies. Because the furnishings in most rooms usually absorb all of the echo, your Technics organ is equipped with **REVERB** to electronically replace the echo which is lost. **REVERB** is effective with most general settings.

**REVERB**

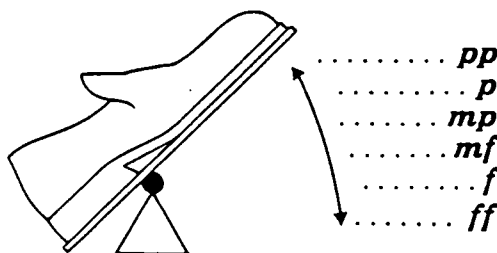


# 13 Expression pedal

The expression pedal regulates the loudness of ALL the organ voices, regardless of how individual volume controls may be set.

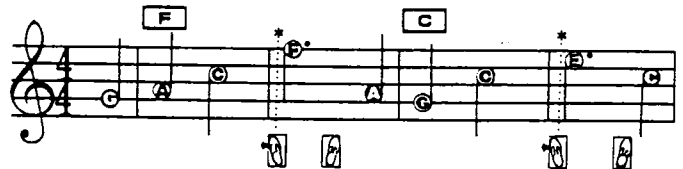
Pushing down with your toe makes the organ louder; pushing down with your heel makes the tone softer.

The "halfway down" position of the pedal represents the medium volume range—this is always a good starting point if dynamic marks don't appear in the music.



## 14 Glide control

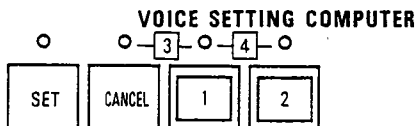
The glide control switch is located on the left side of the expression pedal. When pressed to the left with the side of your foot, the pitch is lowered by about one half-tone. The example below shows how you can achieve the Hawaiian guitar effect. Press the glide switch just before you play the note you want to "bend" (\*).



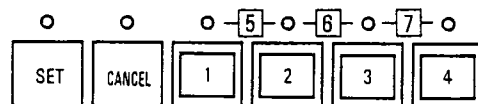
- Other functions can be turned on and off using this foot switch. (Refer to 29.)
- The glide effect does not function for the following voices:  
**POLY:** PIANO, HARPSICHORD, CLAVI, E PIANO, STRINGS  
**U&L SPECIAL:** PIANO, HARPSICHORD, E PIANO, GLOCKEN, VIBRAPHONE, FRENCH HORN, VOCAL  
**BASS:** All voices

## 15 Voice Setting Computer (EX25/EX35)

### VOICE SETTING COMPUTER



(EX25)



(EX35)

All voices and effects can be programmed into the **VOICE SETTING COMPUTER**. NOTE: No slide control setting can be recorded in the computer.

The button marked **CANCEL** lets you turn off the **VOICE SETTING COMPUTER** and change to the registration which was in use before the **VOICE SETTING COMPUTER** was activated.

Buttons 1~4 (EX25) or 1~7 (EX35) are used to store the voices and effects for both keyboards and pedals.

1. Set the desired voices and effects.
2. With the **SET** button held down, press the 1 button. This stores your settings in the 1 button memory. That's all it takes!

To change a button memory, just set up the registration you want, and then press **SET** and the desired number button. The previous setting is automatically replaced by the new one.

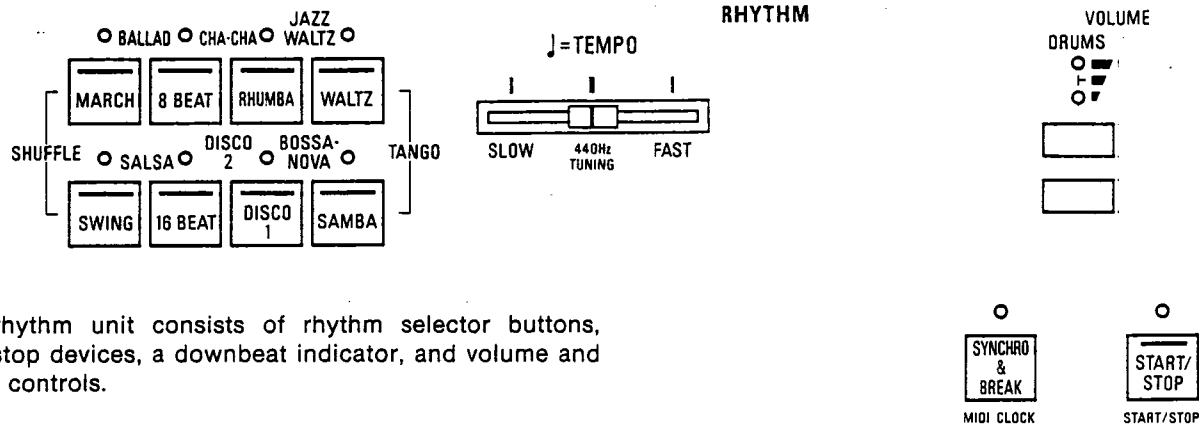
You can manually change the selected voices and effects. The memory contents in the **VOICE SETTING COMPUTER**, however, remain unchanged.

You can store in the number buttons any of the 32 factory-preset voice combinations. (Refer to 24.)

The on/off state of the **CLOSE/PROGRAM** button of the **TECHNI-CHORD** is stored, but the programmed contents are not.

# Part III Using the rhythm section

## 16 Rhythm



The rhythm unit consists of rhythm selector buttons, start/stop devices, a downbeat indicator, and volume and tempo controls.

The **RHYTHM** buttons themselves are self-canceling—if one is pressed and you choose a new rhythm, the indicator(s) for the first rhythm goes out when you press the button for the new pattern. Pressing the two adjacent buttons simultaneously selects the rhythm indicated between them.

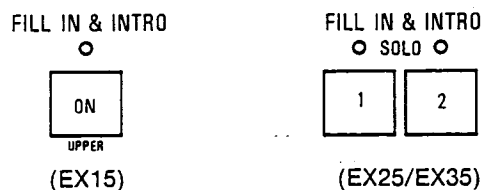
The **START/STOP** button instantly starts and stops the drum rhythm. The rhythm always starts on the first beat of a measure. The indicator above the button indicates the downbeat by flashing on the first beat of each measure. This helps you relate the drum rhythms to the music and helps you keep track of “where you are” while playing.

**SYNCHRO & BREAK** starts the drum rhythm you’ve chosen only when a key on the lower keyboard or a pedal is pressed.

**DRUMS VOLUME** buttons allow you to adjust the loudness of the drums to be in balance with the keyboard voices.

**TEMPO** adjusts how fast or slow the rhythm is played.

## 17 Fill in & Intro



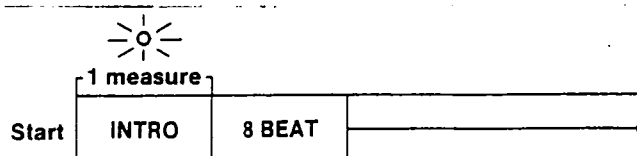
This feature lets you use a one-measure drum solo as an introduction to a song, or to connect different sections of a song. Using the **8 BEAT** rhythm, let’s see how this works.

**As an intro** (introduction):

1. Press **8 BEAT**.

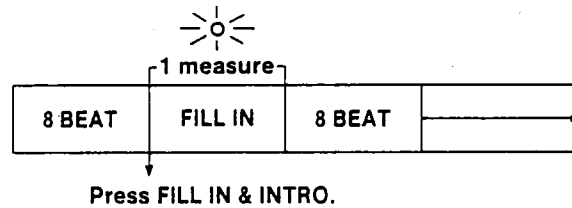
2. Press **FILL IN & INTRO**—the indicator lights up.

3. Start the rhythm (press **START/STOP**). You’ll hear the drums start with the intro and continue on to the **8 BEAT** rhythm. After the intro, the indicator goes out.



**As a fill-in:**

1. Press **8 BEAT**.
2. Start the rhythm (press **START/STOP**).
3. Whenever you want the "drummer" to "fill in," press **FILL IN & INTRO**—the fill-in is immediately played for one measure, after which the **8 BEAT** rhythm resumes.

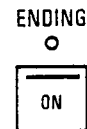


- For the EX25/EX35, two patterns, 1 and 2, are available.

**SOLO (EX25/EX35)**

Pressing the **FILL IN & INTRO 1** and **2** buttons simultaneously produces solo effects.

- The **SOLO** only slightly affects the sound of the automatic rhythm performance when there is constant movement on the keyboard, but a brilliant drum solo is produced when the notes are held or when the keyboard is not being played. Pressing the 1 or 2 button returns the rhythm to normal after one measure of fill-in is played.
- If the rhythm starts after the 1 and 2 buttons are pressed simultaneously, a solo introduction is brought in for 8 measures before the normal rhythm begins.

**18 Ending**

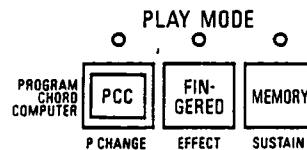
If this button is pressed at the end of a rhythm tune, one measure of the ending pattern will sound, and then the rhythm will stop.

- The ending patterns for the **BASS & ACCOMP** (explained later) are also produced by pressing this button.

**19 One Touch Play**

If this button is pressed, the appropriate voice and effect registration for the rhythm chosen are automatically set. Therefore, immediate play is possible if a rhythm is selected and this button is pressed for several seconds until the indicator stops flashing.

## 20 Play Mode



These buttons are used to select the desired type of accompaniment.

- **Normal mode** (PCC and FIN-GERED buttons are off)
  - The accompaniment is formed from the pedal and lower keyboards.
  - When the rhythm is started, pressing keys on the lower keyboard starts the rhythmic ACCOMP.
  - With the MEMORY button on, a BASS & ACCOMP which matches the fingered chord on the lower keyboard starts.
- **Auto Play Chord mode** (the FIN-GERED button is on)
  - The chord and bass sound when the lower keyboard is played.
  - When the rhythm is started, the rhythmic ACCOMP automatically starts. (The voice selected for the lower keyboard with the LOWER POLY, U&L SPECIAL [EX35] or U&L SOLO [EX35] buttons is not rhythmic. To turn off this sound completely, press the TAB VOICES button of the LOWER POLY, and turn off all the FLUTE buttons.)
  - With the MEMORY button on, the played chord is memorized and continues to sound until another chord is played. (Refer to 21.)
- **PROGRAM CHORD COMPUTER mode** (the PCC button is on)
  - The accompaniment is automatically played following the chord progression which was stored in the PROGRAM CHORD COMPUTER. (Refer to 23.)

### ■ About voice, volume and pattern

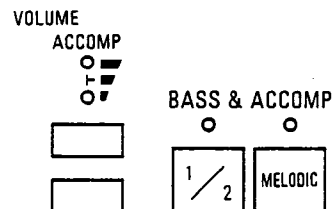
**ACCOMP:** The ACCOMP is performed in a voice and pattern which is automatically matched to the selected rhythm.

Adjust the volume with the ACCOMP VOLUME buttons.

■ **EX15/EX25:** Turning on the MELODIC button of the BASS & ACCOMP changes the rhythmic pattern to a melodic pattern.

■ **EX35:** With the MELODIC button of the BASS & ACCOMP on, a melodic pattern is added.

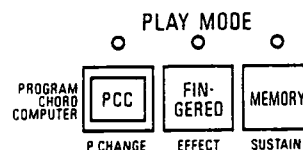
The BASS and ACCOMP patterns also change depending on whether the 1/2 button is on or off.



**BASS:** The BASS sound is determined by the BASS voice buttons and VOLUME buttons.

- The sounds selected for the lower keyboard with the LOWER POLY, U&L SPECIAL (EX35) or U&L SOLO (EX35) buttons are controlled by their respective voice and VOLUME buttons.

## 21 Auto Play Chord



Auto Play Chord is an effective musical aid and a source of enjoyment regardless of your previous musical experience. Combined with other exciting Technics features—automatic **RHYTHM**, and **TECHNI-CHORD**—Auto Play Chord can help you create orchestral and full organ sounds using only one finger on each hand. Further, it can actually help you learn to play the organ in the traditional manner. Let's see how...

The **FINGERED** button, if pressed, automatically selects the one-finger mode when you play only one key on the lower keyboard or the fingered mode when playing 3 or more keys.

The one-finger mode allows you to play a full chord and a bass tone by pressing any single key on your lower keyboard; these chords are called *major*, indicated by a chord symbol letter (C, E $\flat$ , etc.). To play *seventh* chords (G7, B $\flat$ 7, etc.), press any long, light-colored bass pedal as you play the appropriate key. To play *minor* chords (Am, F $\sharp$ m, etc.), press any short, black bass pedal as you play the appropriate key. Occasionally you'll play *minor seventh* chords (Dm7, Gm7, etc.). As you play the lower keyboard key with the appropriate letter-name, press any long and short bass pedals, at the same time, with your left foot.

The **FINGERED** mode also allows you to form your own chords on the lower keyboard; the correct bass note is automatically provided. If you play the pedal keyboard at this time, the bass pattern beginning with the pressed note is played.

**MEMORY** provides the sound of the chord and bass note even if you release the lower keyboard key(s). The chord and bass continue to sound until you play another chord or stop the rhythm.

In addition to the features listed above, your Technics organ has a walking bass feature available at all times. This allows you to automatically re-create professional bass parts when you use either pedal voice along with any of the automatic rhythms.

Pressing the **FINGERED** button again shuts off the Auto Play Chord feature, permitting normal play.

Set up lower keyboard and pedal voices and play the chord example below. If you use the one-finger mode, play the chord key indicated by the letter-name in each chord symbol. If you play in the fingered mode, form the chords as shown with your left hand. Use **MEMORY** to allow yourself time to find the correct notes.

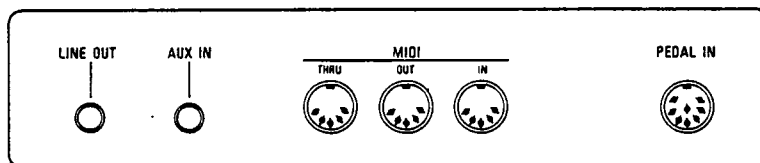
### ■ About the break function

When the **FINGERED** and **SYNCHRO & BREAK** buttons are turned on and the **MEMORY** button is turned off, the rhythm is heard as long as the keys on the lower keyboard are pressed. If the keys are released, the rhythm will stop. Press the keys again and the rhythm will start from the first beat.

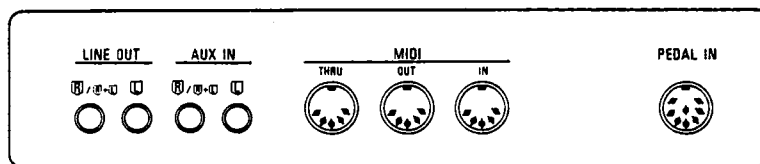


# Connection terminals

(On the rear of the organ)



(EX15/EX25)



(EX35)

## LINE OUT

By plugging into a high-power amplifier, the organ sound, including microphone and auxiliary instruments, can be reproduced at a very high volume level.

**EX35:** 2-channel stereo output is available with the two **LINE OUT** terminals, R/R+L and L. For monaural output, use only the R/R+L terminal.

## AUX IN

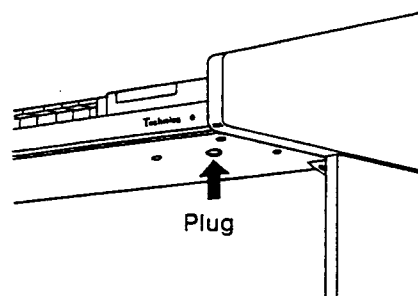
Other instruments such as a rhythm machine or sound module can be connected to the organ so that the sound is output from the organ.

**EX35:** 2-channel stereo input is available with the two **AUX IN** terminals, R/R+L and L. For monaural input, use only the R/R+L terminal.

- For an explanation of the **MIDI** terminals, refer to the separate MIDI manual.

## PHONES (🎧)

For silent practice headphones may be used. When plugged in, the organ's speaker system is automatically switched off, and the entire organ is heard only through the headphones. (Use headphones with 16 ohm impedance.)



# Cautions for safest use of this unit

## Installation location

### 1. A well-ventilated place.

Take care not to use this unit in a place where it will not receive sufficient ventilation, and not to permit the ventilation holes to be covered by curtains, or any similar materials.

### 2. Place away from direct sunlight and excessive heat from heating equipment.

### 3. A place where humidity, vibration and dust are minimized.

## Power source

### 1. Be sure the line voltage selector is in accordance with local voltage in your area before connecting the plug to the socket.

### 2. DC power cannot be used.

## Handling the power cord

### 1. Never touch the power cord, or its plug, with wet hands.

### 2. Don't pull the power cord.

## Metal items inside the unit may result in electric shock or damage.

Do not permit metal articles to get inside the unit.

Be especially careful with regard to this point if children are near this unit. They should be warned never to try to put anything inside.

If, nevertheless, some such article does get inside, disconnect the power cord plug from the electrical outlet, and contact the store where the unit was purchased.

## If water gets into the unit . . .

Disconnect the power cord plug from the electrical outlet, and contact the store where it was purchased.

As a precaution, it is suggested that flower vases and other containers which hold liquids not be placed on the top of this unit.

## If operation seems abnormal . . .

Immediately turn off the power, disconnect the power cord plug from the electrical outlet, and contact the store where it was purchased.

Discontinue using the unit at once. Failure to do so may result in additional damage or some other unexpected damage or accident.

## A word about the power cord . . .

If the power cord is scarred, is partially cut or broken, or has a bad contact, it may cause a fire or serious electrical shock if used. NEVER use a damaged power cord for any appliance. Moreover, the power cord should never be forcibly bent.

## Don't touch the inside parts of this unit.

Some places inside this unit have high voltage potential. Never try to remove the top or back panels of this unit, or to touch inside parts by hand or with tools.

Contact someone who is qualified in order to inspect the inside, or to replace a fuse, if such becomes necessary. Never attempt to do these things yourself.

## Maintenance

The following suggestions will assist you in keeping the unit in top condition.

- Be sure to switch the instrument off after use, and do not switch the unit on and off in quick succession, as this places an undue load on the electronic components.

- To keep the luster of the keys and buttons, simply use a clean, damp cloth; polish with a soft, dry cloth. Polish may be used but do not use thinners or petro-chemical-based polishes.

- A wax-based polish may be used on the cabinet, although you will find that rubbing with a soft cloth will suffice.

**SERVICE MUST BE CARRIED OUT  
BY DEALER OR OTHER QUALIFIED PERSON.**

# Specifications

		SX-EX15	SX-EX25	SX-EX35
KEYBOARD		UPPER MANUAL 44 KEYS, LOWER MANUAL 44 KEYS, PEDAL KEYBOARD 13 KEYS		
UPPER VOICES	POLY	PIANO, E PIANO, HARPSICHORD, HAWAIIAN GUITAR, STRINGS, TENOR SAX, BRASS, ACCORDION, TAB VOICES (16', 8', 4', 2', PERC 2-2/3'), VOLUME	PIANO, E PIANO, HARPSICHORD, GUITAR, JAZZ GUITAR, HAWAIIAN GUITAR, SYNTH PERC, SYNTH BRASS, ACCORDION, CLARINET, ORGAN, TENOR SAX, STRINGS, TROMBONE, BRASS, TAB VOICES (FLUTE 16', 8', 4', 2', PERC 2-2/3'), VOLUME	
	SPECIAL			PIANO, E PIANO, HARPSICHORD, GLOCKEN, JAZZ GUITAR, BANJO, VIBRAPHONE, VOCAL, FLÜGELHORN, ALTO SAX, FRENCH HORN, SYNTH BRASS, VOLUME
	SOLO	FLUTE, PAN FLUTE, SYNTH LEAD, CLARINET, ALTO SAX, TROMBONE, TRUMPET, VIOLIN, VOLUME		
LOWER VOICES	POLY	PIANO, E PIANO, HARPSICHORD, GUITAR, JAZZ GUITAR, STRINGS, TENOR SAX, BRASS, TAB VOICES (8', 4', 2'), VOLUME	PIANO, E PIANO, HARPSICHORD, GUITAR, JAZZ GUITAR, SYNTH BRASS, CLAVI, TENOR SAX, ORGAN, STRINGS, TAB VOICES (8', 4', 2'), VOLUME	
	SPECIAL			○ (UPPER/LOWER)
	SOLO			○ (UPPER/LOWER)
BASS VOICES		BASS 16', ACOUSTIC BASS, ELECTRIC BASS, VOLUME	BASS 16', 16'+8', 8', SYNTH BASS, TUBA, ELECTRIC BASS, CHOPPER BASS, ACOUSTIC BASS, VOLUME	
ORCHESTRAL CONDUCTOR		UPPER (SOLO, POLY)		UPPER (POLY, SPECIAL, SOLO) LOWER (POLY, SPECIAL, SOLO)
EFFECT	SUSTAIN	UPPER, BASS	UPPER, LOWER, BASS	UPPER, LOWER, U&L SPECIAL, BASS
	TREMOLO	UPPER TAB VOICES, LOWER TAB VOICES, TAB TREMOLO (SLOW/FAST)	UPPER TAB VOICES, LOWER TAB VOICES, TAB TREMOLO (SLOW, FAST)	
	CELESTE	UPPER POLY, LOWER POLY, TAB VOICES		UPPER POLY, U&L SPECIAL, U&L SOLO, LOWER POLY
	REVERB			○
GLIDE		FOOT SW		
TECHNI-CHORD		ON	ON, CLOSE/PROGRAM, RECORD*	
RHYTHM	SELECTOR	MARCH, BALLAD, 8 BEAT, CHA-CHA, RHUMBA, JAZZ WALTZ, TANGO, SHUFFLE, SWING, SALSA, 16 BEAT, DISCO 1, 2, BOSSA NOVA, SAMBA		
	CONTROLS	SYNCHRO & BREAK, START/STOP, DRUMS VOLUME, TEMPO		
FILL IN & INTRO		ON	1, 2, SOLO	
ENDING		ON		
PLAY MODE		PCC, FINGERED, MEMORY		
BASS & ACCOMP		1/2, MELODIC, ACCOMP VOLUME		
ONE TOUCH PLAY		○		
TRANSPOSE		CONTROL (G-C~F#)		
VOICE SETTING COMPUTER		_____	SET, 1~4, CANCEL	SET, 1~7, CANCEL
PROGRAM CHORD COMPUTER		PCC, RECORD*, (LOWER KEYBOARD... 1/4, 1/2, 3/4, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, D.S., 1/4, 1/2, 3/4, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12)		
PLAY SEQUENCER		_____	SOLO, UPPER, LOWER, BASS, RECORD*	
FULLBAND SETTING COMPUTER		_____	FSC, RECORD*, LOWER KEYBOARD 1-5	
MUSICAL DISPLAY		○	○	
PROGRAMMABLE FUNCTION SWITCH		FOOT SWITCH, RECORD*		
TUNING		○		
MODE SET		MODE SET, RECORD*, P CHANGE, EFFECT, SUSTAIN, MIDI CLOCK, START/STOP, OCTAVE +/-	MODE SET, RECORD*, P CHANGE, EFFECT, SUSTAIN, MIDI CLOCK, START/STOP, SONG SELECT, OCTAVE +/-	
OTHERS		LINE OUT, AUX IN, MIDI (IN, OUT, THRU), HEADPHONE JACK, POWER SWITCH, MAIN VOLUME, EXPRESSION PEDAL, AC CORD INPUT, INITIAL KEY (LOWER KEYBOARD)	LINE OUT, AUX IN, MIDI (IN, OUT, THRU), HEADPHONE JACK, POWER SWITCH, MAIN VOLUME, EXPRESSION PEDAL, AC CORD INPUT, INITIAL KEY (LOWER KEYBOARD), DIGITAL DISK RECORDER SLOT	LINE OUT, AUX IN, MIDI (IN, OUT, THRU), HEADPHONE JACK, POWER SWITCH, MAIN VOLUME, EXPRESSION PEDAL, AC CORD INPUT, INITIAL KEY (LOWER KEYBOARD), DIGITAL DISK RECORDER SLOT
OUTPUT		40W	50W	50W X 2
SPEAKERS		20cm X 1    6.5cm X 2	20cm X 1    13cm X 6cm X 1    6.5cm X 1	20cm X 2    13cm X 6cm X 1    6.5cm X 2
POWER REQUIREMENT				
CABINET (W X H X D)				
NET WEIGHT (WITHOUT BENCH)				

\*Common RECORD button is used for these buttons.

PRELIMINARY

# Technics

ORGAN

SX-EX15 (L)

SX-EX25 (L)

SX-EX35



Vol. 2

# Technics

## OWNER'S MANUAL

### Vol. 2

#### PRACTICAL APPLICATIONS

It is advised that you be familiar with the functions described up to this point and can set voices, effects and rhythms smoothly before you attempt to use the functions explained in the following sections.

This part describes the storage functions incorporated in your Technics Organ, including how to use the **PROGRAM CHORD COMPUTER** to store chord progressions and recording your performance with the **PLAY SEQUENCER (EX25/EX35)**.

# Part IV Storage functions

Refer to Parts I-III for basic operations of each function. (The section number corresponding to each operation is indicated in parentheses following the heading.)

## 22 Record

RECORD  
○



**RECORD** creates no effect of its own. This button is used to store functions such as the **PROGRAM CHORD COMPUTER**. When you press **RECORD**, its indicator and the indicators of all programmable features flash quickly. Press the button for the feature you wish to use. Its indicator will flash slowly and the indicators of the other features will go out.

**NOTE:** If you don't make your selection within about five seconds, all of the indicators will go out—just press **RECORD** again and then make your choice.

Contents stored by using the **RECORD** button remain in the memory for about one week even when the power switch is turned off.

## Upper keyboard split functions

When recording certain functions, the lower keyboard is used to enter program information. At this time the lower keyboard voices may be monitored using the lower 19 keys on the upper keyboard.

Upper keyboard

To check lower keyboard voices and effects

(19 keys)

To check upper keyboard voices and effects

(25 keys)

Lower keyboard

Used for storage operation

## INITIAL key

The **INITIAL** key is used to reset the voices and effects of the Technics organ or to return the stored contents to their factory-preset state.

### EX15

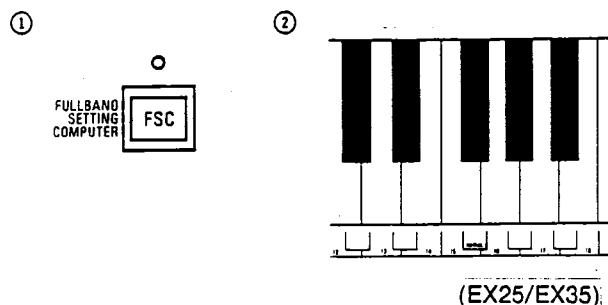
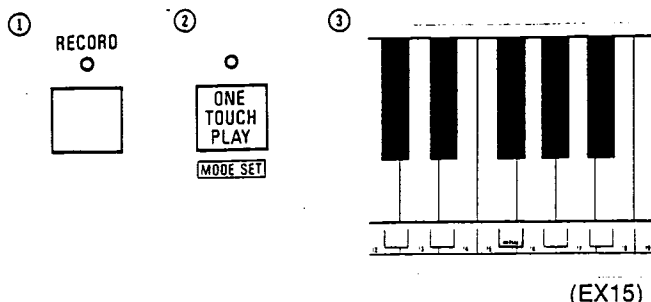
1. Press the **RECORD** button. The indicator flashes.
2. Press the **MODE SET (ONE TOUCH PLAY)** button. The indicator flashes slowly.
3. Press the **INITIAL** key on the lower keyboard.

### EX25/EX35

1. Press the **FULLBAND SETTING COMPUTER (FSC)** button to turn it on.
2. Press the **INITIAL** key on the lower keyboard.

This returns the stored contents to their factory-preset state.

- The contents stored in the **PLAY SEQUENCER** and **FULLBAND SETTING COMPUTER** are left as they are.
- If the **INITIAL** key is pressed during storage, only the function involved returns to its factory-preset state. (For details, see the appropriate sections.)




# 23 Program Chord Computer

The **PROGRAM CHORD COMPUTER**, complete with a memory bank, is an amazing device that is exclusive to most Technics organ models. This makes it possible for you to program the chord accompaniment of an entire song and store it right inside the organ. The main advantage of this is that, while you're learning to play a song, the computer can play the accompaniment, complete with rhythm, while you concentrate on practicing the melody.


This feature is also used in conjunction with the **FULLBAND SETTING COMPUTER**, which is discussed on later pages.


There are two groups of controls that operate the **PROGRAM CHORD COMPUTER**—the buttons illustrated at right, and the 9 keys on the right of the lower keyboard.


**NOTE:** A total of 100 chord entries may be made before the built-in computer memory is full. A quarter-measure (  ) or *D.S* key is counted as two chords. When the computer memory is full, short beeps will sound.



The **PCC** button prepares the computer for the storage of the chords of your choice (after **RECORD** is pressed).

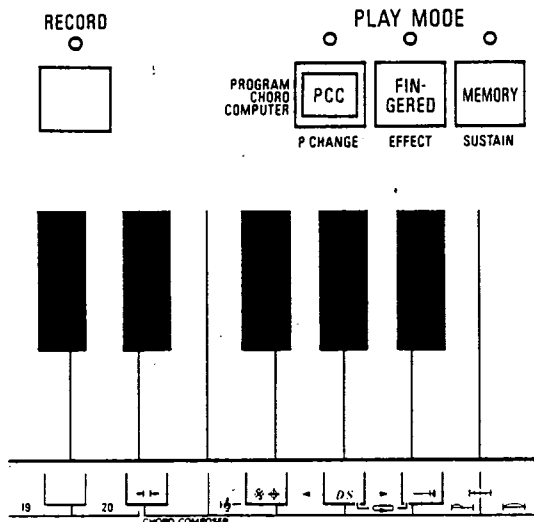
The 9 keys are used for the actual process of storing chords in the computer. Here is what they do:


 stores a chord for an entire measure (one chord per measure).

 stores a chord for a half-measure (two chords per measure).


 (pressing two keys at a time) stores a chord for a quarter-measure (four chords per measure).


Amend keys (   ) are used to correct individual chords in a sequence, or to change chords already in the memory bank.




 can be pressed should you wish to start programming over from the beginning.

 (end) is pressed after the last chord has been stored.

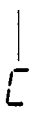
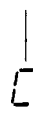






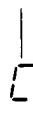
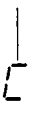










 (pressing two keys at one time) completes storage so that performances can be automatically repeated.

 allows you to input a pause at any time during the recording. This pause is reproduced when the recording is played back.

The use of the  and *D.S* keys allows you to store chords following repeat marks in the music sheet, making storage operation easy. This is explained later in detail.

## MUSICAL DISPLAY

It's possible to store these types of chords:

Major	Minor	Seventh	Minor Seventh	Augmented	Diminished	Minor Seventh Flat Fifth	Major Seventh	Minor Major Seventh	Seventh Suspended Fourth
C	Cm	C7	Cm7	Caug	C° or C dim.	C <sup>♭</sup> or Cm7 <sup>b5</sup>	CM7 or C maj. 7	CmM7	C7sus4
									
									





• If you try to store a chord other than these, the computer will select and store the nearest match.

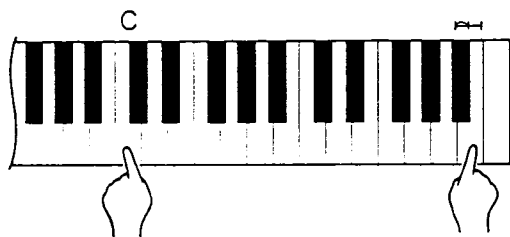
Some of these chord types are not available as a one-finger chord; no matter, however, since your computer easily mixes one-finger and fingered chords.


Use the following example to learn operations of the **PROGRAM CHORD COMPUTER**. The variety of chords presented will help you do this.


# Storing chords in the computer


1. Press **RECORD** and then **PCC**. Computer memory is now ready to receive the chords in the example.


Press and hold the C chord on your lower keyboard, either in the one-finger or fingered mode. **DON'T PRESS THE FINGERED BUTTON** however, since doing so cancels the record feature. While holding the C chord key(s), press the key marked . The chord sounds while you're holding it; as you press the  key, you'll hear a "beep"—this tells you the chord is now in the memory. **ALWAYS REMEMBER:** When you hear the chord you want, **THEN** press  or .



Since the C# diminished seventh chord is not available in the one-finger mode, you'll have to form it yourself (C#-E-G-Bb). Hold it and press the  key again. The "beep" sounds and the first measure is complete.

The second measure contains only the Dm7 chord. If you don't form it yourself, you can press the one-finger D chord and add a short bass pedal (for minor) and a long pedal (for seventh). While holding this chord, press the  key; the second measure is now complete.

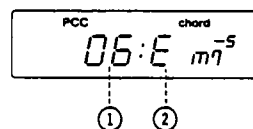
Continue with the remaining chords in the example, entering half and whole measures as required. Incidentally, the notes of the Em7<sup>b5</sup> chord are E-G-Bb-D. The last chord, C, is played for two measures. As you hold down the key(s), press the  key twice—once for each measure.

2. Press the  (end) key. This closes the memory to further storage, and turns off the **RECORD** button. The indicator for the **PCC** button stays on, however.






## MUSICAL DISPLAY

The sequence number and chord name are displayed.

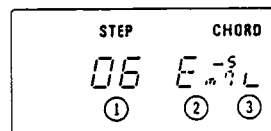
### ■EX15



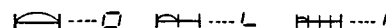
- ① Sequence number
- ② Chord name






Keys *D.S.*, ,  and  are displayed as *d*, *5* and *E* respectively. Pressing the *D.S.* key and  key simultaneously displays .

### ■EX25/EX35














- ① Sequence number
- ② Chord name
- ③ Chord length



Keys *D.S.*, ,  and  are displayed as *d*, *5* and *E* respectively. Pressing the *D.S.* key and  key simultaneously displays .

### Other facts you should know about storing chords...

- To store "no chord" (N.C.) press the  or  key, as necessary, without playing a chord.
- When the programmed chord sequence is automatically played back, it stops after one play. For repeat automatic play, follow the procedures below in step 2 above.
- To repeat the programmed chord sequence until the rhythm is stopped: Instead of the  key, press the  keys (pressing the *D.S.* and  keys at the same time).
- To specify the number of repetitions (up to 8 times): While holding the *D.S.* key down, press one of the keys 2 to 8 (on the lower keyboard) corresponding to the number of repetitions (e.g. the 3 key to repeat 3 times). Then press the  key.

- If you press the  key when storing the chord sequence, the sequence will stop at the first beat of the next chord during automatic playback. Pressing the **START/STOP** button resumes the sequence at the chord next to the stopped one.
- For example, press the G7 , , C  and Am  keys for storage. When automatically played back, the chord sequence stops at the first beat of the C chord after the G7. Pressing the **START/STOP** button resumes the sequence at the Am chord.



## Playing the programmed chords

After making sure the **PCC** indicator is on, start the automatic rhythm of your choice. The stored chords are automatically repeated in sequence for the correct number of measures.

When you are playing a programmed chord sequence and you wish to replay a certain part of the program—maybe you missed a melody note—press the **START/STOP** button. This stops the automatic rhythm and the chords; at the same time, the program returns to the beginning of the chord sequence, allowing you to restart and play again.


### Other facts you should know about chord playback...

- If you find it difficult to play a melody along with the automatic rhythm, it's possible to play the stored chords without starting the rhythm. Merely press any single key on your lower keyboard and you'll hear the first chord in the programmed sequence. Press it again for each following chord—this allows plenty of time for you to work on the melody.

## Modifying or correcting programmed chords



Suppose you wanted to change the A7 chord in the example to an E $\flat$ 7—here are a couple of ways you could do it.

### Using the rhythm


1. Press the **RECORD** and **PCC** buttons.
2. Press **START/STOP** to begin the chord sequence with the rhythm.
3. Stop the rhythm when the sequence reaches the A7 chord.
4. Play and hold the new chord (E $\flat$ 7) and press the  key. The new chord is now in the position of the original chord.
5. Press **PCC** again.

### Using the forward ( ) and back ( ) keys






Step 1 as above.

2. Press the  key once for each chord from the start of the program. In this case, the A7 is the seventh chord in the sequence; watch the example and press  seven times.
3. Stop when you hear the chord you want to change.

Steps 4 and 5 as above.

The  key is used the same way when you want to move one chord at a time from the end of the program to the beginning.

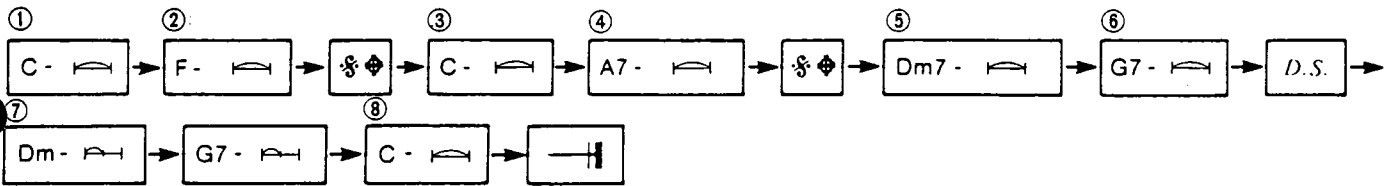
### Other facts you should know about changing chords...

- The  and  keys operate only when the rhythm is stopped and the **RECORD** and **PCC** buttons are on.
- Each press of the  key advances one unit and each press of the  key moves back one unit, whether the unit is a whole measure, a half-measure, or a quarter-measure.
- Should you enter the wrong chord, press the  key once and enter the correct chord.

# Using the $\$$ $\Phi$ , *D.S.* keys

After pressing the symbol keys according to the music sheet, the chord of the measure is stored. Let's try to store the following music.

The memory procedure is as follows.



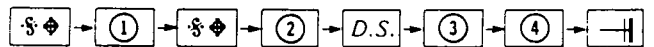
Music written with repeat marks other than  $\$$ ,  $\Phi$  and *D.S.* can be stored with the following correspondence.

Key	Repeat marks
$\$$ $\Phi$	,  , <i>Fine</i>
<i>D.S.</i>	<i>D.C., al Fine</i> ,

(For , press the  $\$$   $\Phi$ , *D.S.* keys in succession.)

Example

The memory procedure is as follows:



The following kinds of music cannot be stored by using  $\$$   $\Phi$ , *D.S.* keys.

- When the position of and "to  $\Phi$ " are the same.
- When the ranges of two repeats overlap.
- When the positions of and *D.C.* or *D.S.* are the same.

## Voice, fill in & intro, ending storage

This PROGRAM CHORD COMPUTER stores not only chords but also the FILL IN & INTRO, ENDING and the VOICE SETTING COMPUTER selection (EX25/EX35).

### For FILL IN & INTRO, ENDING storage

#### INTRO

Storage can be done by pressing a FILL IN & INTRO button at the beginning of a tune.

- When the FILL IN & INTRO 1 and 2 buttons are simultaneously pressed for storage, eight measures of a drum solo are stored as the intro (EX25/EX35).

#### FILL IN

After storing a chord, press a FILL IN & INTRO button, and that chord will be stored as the fill-in.

- When the 1 and 2 buttons are pressed simultaneously, a drum solo will be stored until 1 or 2 is pressed a second time (EX25/EX35).

#### ENDING

If the ENDING button is pressed at the end of a song, the last chord will be stored as an ending pattern. (The RECORD button will be turned off.)

### For voice storage (EX25/EX35)

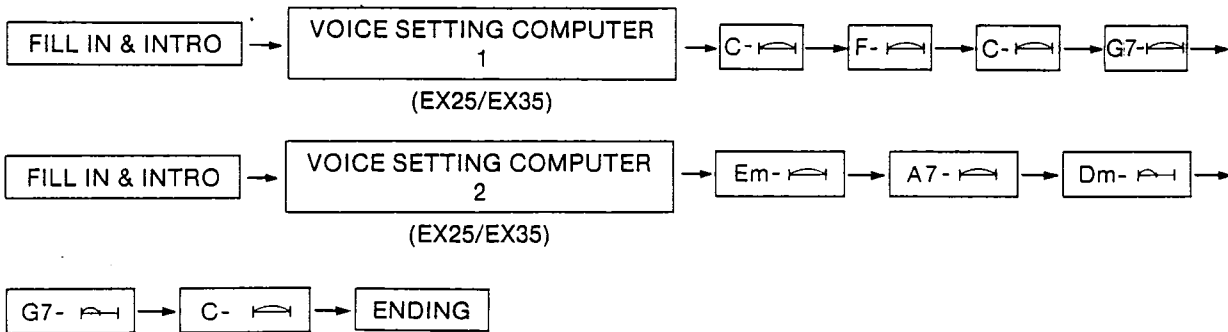
Before storing a chord, press a VOICE SETTING COMPUTER number button. This stores the selected voice at the beginning of the next measure. The voice will continue until the next voice is selected.

- When the chord sequence is over, you can continue playing with the last voice selected. But when you stop playing, the first voice will return after 10 seconds.
- The voice will change slightly ahead of the rhythm to help you remain in tempo with the rhythm.
- When the song is repeated, the last voice of the song continues through to the second sequence. In order to specify the first voice of the second sequence, store the desired voice after the last chord is stored.

Let's store the following:

Chord		C	F	C	G7	Em	A7	Dm G7	C
<b>FILL IN &amp; INTRO, ENDING</b>	<b>INTRO</b>				<b>FILL IN</b>				<b>ENDING</b>
<b>VOICE SETTING COMPUTER (EX25/EX35)</b>		1				2			

After first pressing the **RECORD** button then the **PCC** button, perform the storage operation as follows:

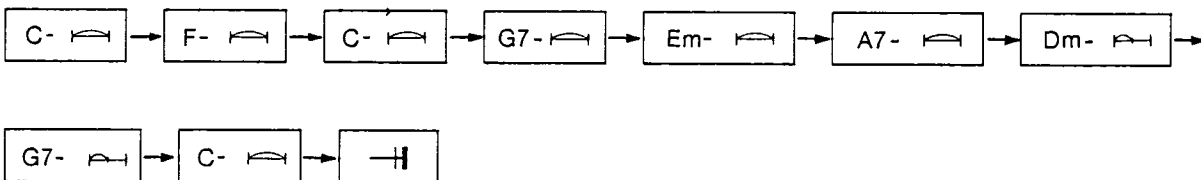


- Up to 10 selections of the voice, **FILL IN & INTRO** and **ENDING** can be stored. (Storing voice, **FILL IN & INTRO** and **ENDING** in sequence is counted as one selection.)

- It is also possible to store voices, **FILL IN & INTRO** and **ENDING** after a chord sequence has been entered.

Let's store the previous example using the following procedure.

1. First, store only the chords.



2. Press the **RECORD** button and then the **PCC** button.
3. Press the **FILL IN & INTRO** button.
4. Press the 1 button of the **VOICE SETTING COMPUTER (EX25/EX35)**.
5. Press the forward key (▶) four times to advance the chord to the G7 position.
6. Press the **FILL IN & INTRO** button.

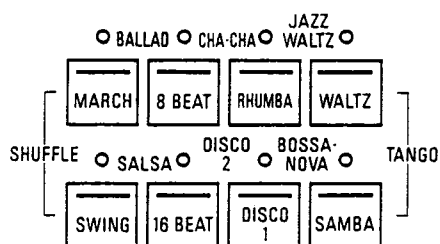
7. Press the 2 button of the **VOICE SETTING COMPUTER (EX25/EX35)**.
8. Press the forward key (▶) six times.
9. Press the **ENDING** button.

# 24 Voice Setting Computer (15) (EX25/EX35)

## How to use the factory-preset voice combinations

In addition to your own registrations, the 32 factory-preset voice combinations (16X2) allow you to choose your favorites for storage in VOICE SETTING COMPUTER buttons 1~4 (EX25) or 1~7 (EX35).

1. Press the RECORD button.
2. Press the 1 button to store the desired voices.
3. If you press RHYTHM button(s), a registration appropriate for the rhythm is selected.



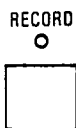
4. Pressing the 1 button again turns the RECORD button off, and the selected voice combination is stored in the 1 button.
- In step 4, when the 2 button is pressed instead of the 1 button, the selected voice combination is stored in the 2 button and the storage operation can be immediately continued for the 2 button. After the desired voice combination is selected, pressing the 2 button again completes storage and turns the RECORD button off. If further storage is desired, however, press the 3 button instead of the 2 button and continue as with the 1 and 2 buttons.

- Playing the upper and pedal keyboards lets you check the voices and effects.
- With the 1/2 button of the BASS & ACCOMP, a total of 32 combinations is available.

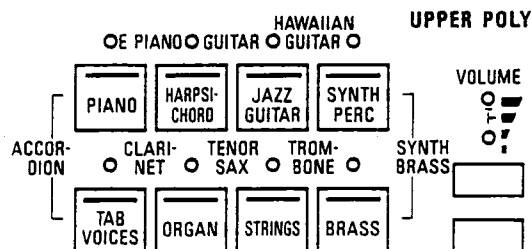
# 25 Organ (2) (EX35)

You can choose from among 10 preset sounds by using the lower keyboard keys 1~10 and storing the selected sound in the ORGAN button(s) of UPPER POLY and LOWER POLY.

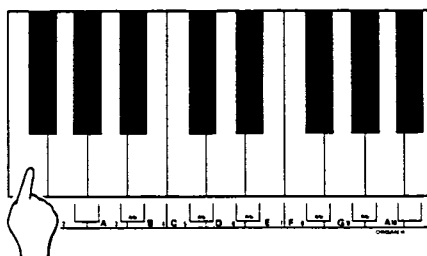
1. Press the RECORD button. Its indicator will flash.



2. Press the ORGAN button of UPPER POLY or LOWER POLY. Its indicator will flash slowly.



3. Select your favorite sounds using the keys marked 1 to 10 on the lower keyboard.
- Playing the upper keyboard lets you check the sounds and effects since the upper keyboard splits in function.



4. Press the RECORD button to turn it off.

The following organ tone groups are preset in keys 1 to 10.

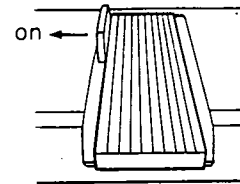
- 1~3: Classical organs
- 4~10: Jazz and rock organs

- These organ tones include unique sounds and effects unavailable from using the buttons.

## ②⑥ Programmable function switch (14)

The function desired during play can be stored in the foot switch. Thus, the voice and effects can be easily changed with your foot.

- The switch normally works as a glide switch.
- Functions for storage  
**START/STOP**  
**VOICE SETTING COMPUTER (EX25: 1~4, EX35: 1~7)**  
**TREMOLO SLOW/FAST**



**TECHNI-CHORD**  
**FILL IN & INTRO (EX15: ON, EX25/EX35: 1, 2, SOLO)**  
**ENDING**

### ● For storage

1. Press the **RECORD** button.
2. Press the foot switch to the left.
  - This causes a short beep to sound, and the indicators of the buttons available for recording flash.
3. Press the button of the function you wish to store. (Press the **START/STOP** button, for example.) This automatically turns the **RECORD** button off and completes storage of the selected function in the foot switch. (In this example, the rhythm will start when the foot switch is pressed to the left.)
  - To return the foot switch to the original function (glide switch), press the **INITIAL** key on the lower keyboard instead of the button described in step 3 above.

## ②⑦ Techni-Chord (9) (EX25/EX35)

You can select and store the harmony style which is heard when the **TECHNI-CHORD** feature is used with the **CLOSE/PROGRAM** button on.

1. Press the **RECORD** button. Its indicator will flash.
2. Press the **CLOSE/PROGRAM** button of the **TECHNI-CHORD**. Its indicator will flash slowly.

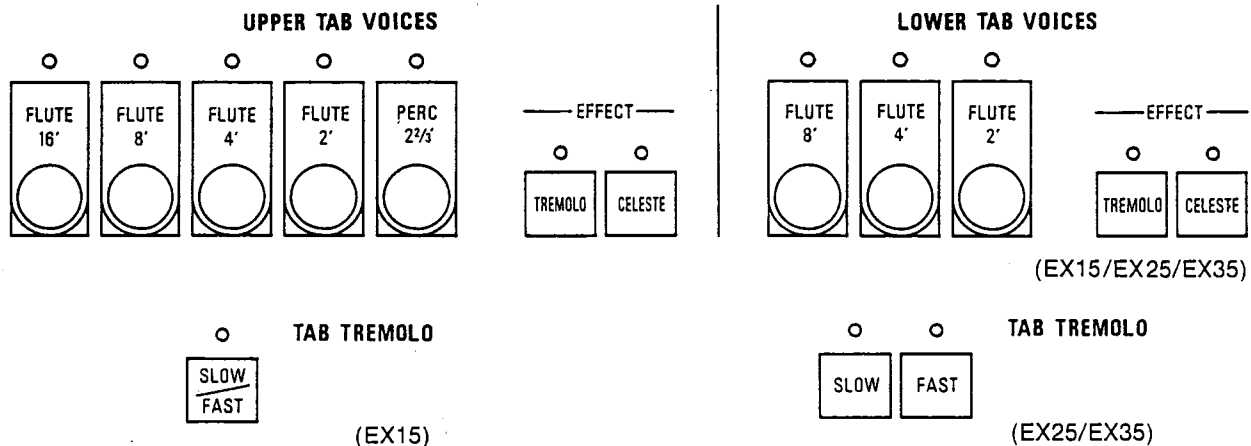
3. Select the desired harmony style from keys 1~4 on the lower keyboard.
  - The harmonic style selected can be monitored on the upper keyboard. (The chord is played on the lower 19 keys, the melody on the upper 25 keys.)
  - The following four harmony styles are available.

Lower keyboard	Style	Display
1	open 1	01
2	open 2	02
3	duet 1	01
4	duet 2	02

\*Open 1 is the initialized condition.

4. Press the **RECORD** button.

## 28 Tremolo speed adjustment <sup>(10)</sup>



The Technics organ allows the **TREMOLO** speed to be adjusted. The **TREMOLO** creates an effect like two speakers rotating at different speeds. The fast and slow speeds are both adjustable.

1. Press the **RECORD** button.

2. **Fast speed adjustment:**

Press the **TREMOLO** button of the **UPPER TAB VOICES** section. The indicator above the button will flash slowly.

3. ■ **EX15**

Each time you press the **SLOW/FAST** button of the **TAB TREMOLO** section, the frequency is increased. If the button is pressed again after the maximum frequency is reached, the frequency returns to the minimum.

■ **EX25/EX35**

Tap the **FAST** button of the **TAB TREMOLO** section to increase the frequency. Tap the **SLOW** button to decrease it.

- During speed adjustment, the **TREMOLO** is automatically turned on. This allows you to carefully check on the upper keyboard how the tremolo effect is applied.

4. **Slow speed adjustment:**

Press the **TREMOLO** button of the **LOWER TAB VOICES** section.

5. Adjust the frequency using the **SLOW/FAST** button (EX15) or the **SLOW** and **FAST** buttons (EX25/EX35).

6. When the adjustment is completed, press the **RECORD** button to turn it off.

- The **CELESTE** speed remains unchanged during this adjustment.

- Adjustment range

Fast speed: 8.4 Hz to 30.5 Hz

Slow speed: 4.9 Hz to 8.1 Hz

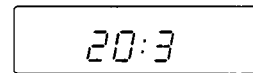
- If you wish to return the speed to the factory-preset state (20.3 Hz and 6.4 Hz), press the **INITIAL** key in step 3 or 5 above.

### MUSICAL DISPLAY

The tremolo speed is displayed.

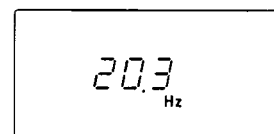
Example: 20.3 Hz

■ **EX15**



This colon (:) represents a decimal point.

■ **EX25/EX35**



## 29 Tuning

This function facilitates the adjustment of pitches when used for an ensemble with other instruments.

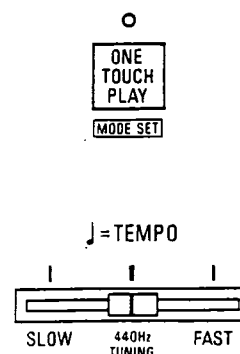
1. Press the **RECORD** button. The indicator flashes.

2. Press the **MODE SET (ONE TOUCH PLAY)** button. The indicator flashes slowly.

3. Adjust the pitch with the sliding **TEMPO** control (to the right to raise the pitch, to the left to lower it). The center position is 440 Hz.

- The initial setting is 440 Hz.

4. Press the **RECORD** button to turn it off.



## Part V Storage of performance contents (EX25/EX35)

If the separately sold optional SY-FD3 Digital Disk Recorder has been installed in your instrument, please read the separate booklet "Optional Digital Disk Recorder" instead of sections ⑩~⑫.

### ⑩ Internal memory

Your performance as well as the contents of the registration, **VOICE SETTING COMPUTER**, **PROGRAM CHORD COMPUTER** and other functions can be stored in the internal memory of this organ. The following two modes are available using the internal memory.

#### ■ PS (Play Sequencer) mode

The entire contents of a single tune, including the performance, voices and effects, can be stored and automatically recalled. (Refer to ⑪.)

#### ■ FSC (Fullband Setting Computer) mode

The contents of the initial registration, **VOICE SETTING COMPUTER**, **PROGRAM CHORD COMPUTER** and other functions for five tunes can be stored. The contents are recalled by simply using the **FSC** button. (Refer to ⑫.)

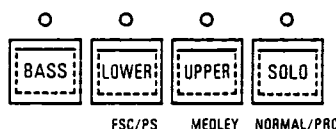
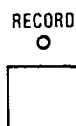
### Changing the mode

1. Press the **RECORD** button. The indicator will flash.
2. Press the **FSC** button. The indicator will flash slowly.
3. The mode will be indicated by the appearance of *FSC* or *PS* on the **MUSICAL DISPLAY**.  
The mode will change each time the **FSC/PS** button (the **LOWER** button of the **PLAY SEQUENCER**) is pressed.
- The mode also changes when the **INITIAL** key on the lower keyboard is pressed.
4. Turn off the **RECORD** button when the desired mode is set.

- After the contents are stored in the **PS** mode, if the mode is changed to **FSC** and other contents are stored, the contents stored in the **PS** mode are erased.
- When the optional Digital Disk Recorder is used, the contents of the internal memory cannot be stored or played back.

### ⑪ Play Sequencer

#### PLAY SEQUENCER



All parts—**BASS**, **LOWER**, **UPPER** and **SOLO**—can be stored at one time, or parts can be played separately and then synchronized for storage.

For example, a bass line played on the pedal keyboard is first recorded. As it is played back, chords can be added using the lower keyboard. Then, as the new recording is played back, a melody line can be added using the upper keyboard. **SOLO** voices can also be used. The combined recording, or any of its elements, can be retrieved at any time.

#### SOLO button

A different melody from that stored in the **UPPER** button can be stored in the **SOLO** button using one of the **SOLO** voices from the **ORCHESTRAL CONDUCTOR** section. Automatic performance using the **LOWER**, **UPPER**, and **SOLO** buttons of the **PLAY SEQUENCER** produces the sound of three keyboards played at once.

## For storage:

### I. Setting modes and registration

1. Set the internal memory to the **PS** mode. (Refer to ③⑩ Internal memory, "Changing the mode.")
2. Set the voices and effects for the song to be stored.
  - If an introduction is needed, turn on the **FILL IN & INTRO 1** or **2** button.
- If **PLAY SEQUENCER** storage operation is performed, this setting will be automatically stored in the memory.
- If necessary, store in advance the **VOICE SETTING COMPUTER**, the **PROGRAM CHORD COMPUTER**, etc.

### II. For storage of ordinary performances

1. Press the **RECORD** button. Its indicator will flash.
2. Press the **PLAY SEQUENCER** buttons one at a time for the parts you wish to store (for example, the **BASS**, **LOWER** and **UPPER**.) The button indicators will then flash slowly.
  - Check that the indicators for the parts you wish to store flash slowly.
  - At this time, turn off the **SOLO** button.
3. Play the song to be stored.
  - Start the rhythm if desired and play the parts you wish to store. You can turn the rhythm on and off while playing the song.
4. After playing, press the **RECORD** button to turn it off.
  - Instead of the **RECORD** button, you may press the **PLAY SEQUENCER** button with the flashing indicator. This ends the recording.

### III. To store by parts for automatic performance (multiplex storage)

1. Turn off all four **PLAY SEQUENCER** buttons.
2. Press the **RECORD** button. Its indicator will flash.
3. Press the **PLAY SEQUENCER** button for the part to be stored first. Its indicator will flash slowly.
4. Play the part to be stored.
5. After playing the part, press the **PLAY SEQUENCER** button for the next part to be stored. Its indicator will flash slowly.
  - The rhythm automatically stops.
  - Check at this time that the indicator for the previously stored part is still lit.
  - Instead of step 5, you may press the **RECORD** button to turn it off. Then press the button again (its indicator will flash) and press the **PLAY SEQUENCER** button for the part you wish to store next. Its indicator will then flash slowly.
6. Pressing the **START/STOP** button begins the automatic performance of the previously stored part, to which you can add a second part.
  - You can also begin a song which has no rhythm by pressing the **START/STOP** button.
  - To store one portion of a song, press the button for the part to be stored next. You need not wait for the automatic performance to be completed. In this case, do not stop the rhythm.
7. Repeat steps 5 and 6 to complete storage in the other **PLAY SEQUENCER** buttons.
8. Press the **RECORD** button to turn it off.
  - For storage in the **SOLO** button, the **UPPER SOLO** button of the **ORCHESTRAL CONDUCTOR** is automatically turned on. Play a melody on the upper keyboard and it will be stored.

### IV. To modify previously stored parts or add a solo part

1. Turn on the **PLAY SEQUENCER** button for the part to be automatically played.
2. Press the **RECORD** button. Its indicator will flash slowly.
3. Press the **PLAY SEQUENCER** button for the part to be replaced. Its indicator will flash slowly.
  - Check at this time that the indicator for the part to be automatically played is still lit.
4. Pressing the **START/STOP** button begins automatic performance of the stored part which may be modified or added to.
  - You can also begin a song which has no rhythm by pressing the **START/STOP** button.
5. After playing, press the **RECORD** button to turn it off.



The storage capacity is as follows:

UPPER LOWER	200 notes 200 notes	} *400 notes
SOLO BASS	150 notes 150 notes	
Control	**35 steps	

\*The storage capacity of **UPPER** or **LOWER** is doubled if either is used alone without the other.  
The same also applies to **SOLO** and **BASS**.

In this case, follow the storage procedure below.

1. Press the **RECORD** button.
2. Press the **PLAY SEQUENCER** button to be used.
3. Press the **FSC** button.
4. Press the white key 2 on the lower keyboard.
  - The flash time of the indicator for the part with double storage capacity becomes longer.
  - Pressing the white key 1 returns the display to the original mode.
5. Press the **FSC** button.

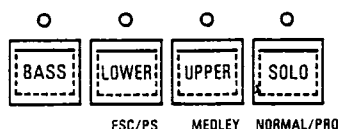
\*\*During storage using the upper keyboard, control data such as changes in the voices and effects being played can also be stored.

### • How to count the number of notes

The cycle of one key being pressed and released is counted as one note.

- The rhythm tempo can be freely adjusted during playback. Therefore, it is possible to store the contents by playing the keyboard slowly.
- If new songs are stored over songs already stored, the previously stored songs are cleared.

### PLAY SEQUENCER

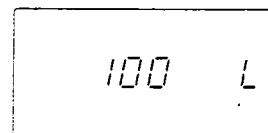


### MUSICAL DISPLAY

The **MUSICAL DISPLAY** indicates the number of notes that can still be stored.

In the example below, 100 more notes can be stored in the **LOWER** part.

U...UPPER  
L...LOWER  
S...SOLO  
B...BASS



If two or more **PLAY SEQUENCER** parts are stored simultaneously, the number of notes displayed is for the part with the least number of notes remaining.  
E.F.F. is displayed when no more storage is possible.

## V. Registration storage

### ■ Registration storage

When **PLAY SEQUENCER** storage operation is performed, the current registration is automatically stored in the memory when the **RECORD** button is pressed.

### ■ Checking and modifying registration before performance

When the **RECORD** and **PLAY SEQUENCER** indicators flash before performance, no modification or addition can be stored. If you wish to check or modify the registration, turn on the **FSC** button. After checking and modifying the contents, turn off the **FSC** button.

### ■ Readout of the stored registration

Turn on the **FSC** button and press the **PS/1** key on the lower keyboard. This will load the stored registrations.

### ■ Modification of the stored registration

To modify the registration for a song already stored in the **PLAY SEQUENCER** buttons:

1. Set the registration you wish to store.
2. Press the **RECORD** button. Its indicator will flash.
3. Press the **FSC** button. Its indicator will flash slowly.
4. Press the **PS/1** key on the lower keyboard.

### ■ Storage of changes in registration during performance

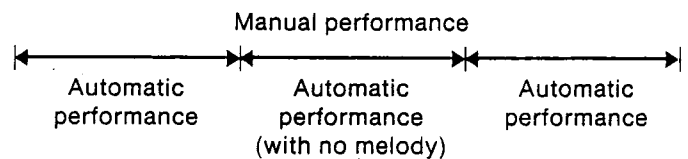
The **UPPER** button of the **PLAY SEQUENCER** stores changes in registration in the buttons on the control panel, excluding the **MAIN VOLUME**, **PLAY SEQUENCER**, and **FSC** buttons. This information is stored along with the upper keyboard information.

## For automatic performance of the stored contents

- To use the stored voices and effects, turn on the **FSC** button and then press the **PS/1** key on the lower keyboard.
- 1. Press the **PLAY SEQUENCER** button to turn on the part you wish to perform automatically.
- Make sure that only the **PLAY SEQUENCER** indicator for the part you wish to perform automatically is lit. (If the **PLAY SEQUENCER** indicator for any other part is turned on, the wrong melody may be played or the rhythm may stop during performance.)
- If the **SOLO** button of the **ORCHESTRAL CONDUCTOR** is turned on during automatic performance of the melody stored in the **SOLO** part of the **PLAY SEQUENCER**, manually played notes will also be produced. This may adversely affect the **SOLO** sound.
- 2. Start the rhythm for automatic performance of the selected part.
- Press the **START/STOP** button to begin a song which has no rhythm.

### ■ Ensemble-like playing during manual performance

- **UPPER and LOWER**  
During an automatic performance, you can also play the upper and lower keyboards to produce an ensemble-like effect. The maximum number of notes that can be simultaneously created on each of the upper and lower keyboards is 8. For more than 8 notes, top priority is always given to those manually played.
- **BASS and SOLO**  
These parts are monophonic and do not allow simultaneous automatic and manual performance. However, you can play these parts during automatic performance without a melody. (For the **SOLO** part, manual performance is possible only when the **SOLO** button of the **ORCHESTRAL CONDUCTOR** is selected.)



## Solo

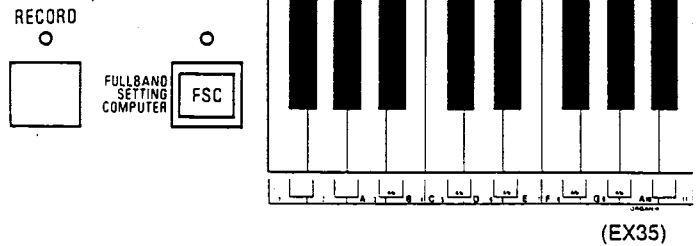
■ When the **PLAY SEQUENCER SOLO** button is off:  
If the **SOLO** button of the **ORCHESTRAL CONDUCTOR** is turned on, the **SOLO** can be performed by the **PLAY SEQUENCER UPPER** or **LOWER** button as in ordinary performances.

- When the **PLAY SEQUENCER SOLO** button is on:  
**SOLO** can be performed as an independent melody.
- In this case, the **SOLO** button of the **ORCHESTRAL CONDUCTOR** need not be selected.
  - If the **SOLO** button of the **ORCHESTRAL CONDUCTOR** is also selected, priority is given to manually played notes.
  - **SOLO** cannot be performed by the **PLAY SEQUENCER UPPER** or **LOWER** button.

## 32 Fullband Setting Computer

The **FULLBAND SETTING COMPUTER (FSC)** is used to set voices, effects and rhythm combinations. It also allows storage in the memory of information needed to play songs such as the contents stored in the **PROGRAM CHORD COMPUTER**. The stored contents can be freely retrieved for use whenever required.

- The contents, for up to five tunes, excluding the performance, can be stored.



### For storage

- Set the internal memory to the **FSC** mode. (Refer to 30 Internal memory, "Changing the mode.")
- The voice and effect combinations registered for playing the song should be stored in the **VOICE SETTING COMPUTER**.
- Store the functions, such as the **PROGRAM CHORD COMPUTER**, that you require.
- Set the voices, effects and rhythms at the beginning of the song being played.
  - If you desire an intro, press the **FILL IN & INTRO 1** or **2** button after stopping the rhythm.

Now you can store the above contents in the memory.

- First press the **RECORD** button and then the **FSC** button.

- Press key 1, 2, 3, 4 or 5 on the lower keyboard within 5 seconds. This stores the contents in the track of the memory that corresponds with the key number pressed.
  - At this time, the **FSC** indicator flashes and a confirming beep sounds once. (If a beep-beep-beep is heard, an error is indicated and storage cannot be performed.)



Pressing this key stores the contents in track 1 of the memory.

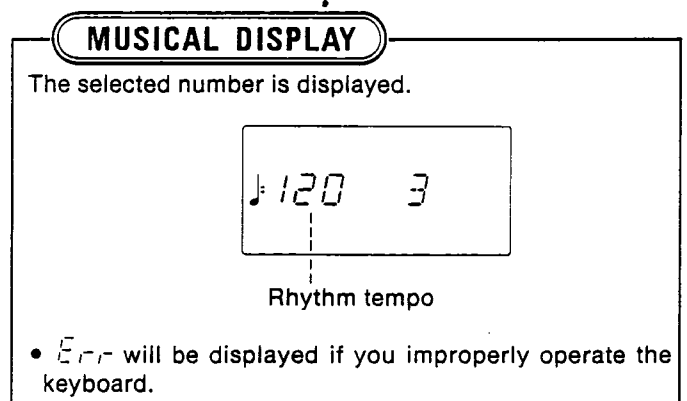
In a similar manner, store the contents of your favorite songs in the remaining tracks of the memory.

- Steps 2 to 6 above replace the stored memory contents with the new contents.

### To recall the stored FSC contents to set the voices and effects




- Press the **FSC** button.
- Press the key on the lower keyboard that corresponds to the number of the song you wish to play. The voices and effects played at the beginning of the song will be indicated by the button indicators.
  - At the same time, the contents stored in the **PROGRAM CHORD COMPUTER** and **VOICE SETTING COMPUTER**, etc. are also set automatically.
  - TRANSPOSE** is also played back, but once the slide control is moved, the key indicated by the position of the slide control is set.

**NOTE:** You can manually change the voice and effect controls when you play back the programmed songs; the musical contents in the **FSC** memory are not changed, however.



# Symptoms which appear to be signs of trouble

The following changes in performance may occur in the Technics organ but do not indicate trouble:

Phenomenon	Remedy
The buttons, keyboards, etc. malfunction.	<ul style="list-style-type: none"> <li>■ <b>EX15:</b> Press the <b>RECORD</b> button and then the <b>MODE SET</b> button. Then press the <b>INITIAL</b> key on the lower keyboard.</li> <li>■ <b>EX25/EX35:</b> Press the <b>FSC</b> button first to turn it on and then press the <b>INITIAL</b> key on the lower keyboard.</li> <li>● If the buttons, keyboards, etc. do not return to normal, turn the <b>POWER</b> switch off once, then turn on again.</li> </ul>
Different voices are heard in the lower and upper half keys on the upper keyboard.	The lower portion of the upper keyboard is used to monitor the lower keyboard voices when the lower keyboard is required for programming functions.
A rhythm does not start or no rhythm sounds.	<ul style="list-style-type: none"> <li>● No rhythm sounds if the <b>DRUMS VOLUME</b> buttons are turned off.</li> <li>● The rhythm does not start when you turn on a <b>PLAY SEQUENCER</b> button in which a tune with no rhythm is stored (<b>EX25/EX35</b>).</li> </ul>
The glide control does not operate properly.	Any functional on and off operation other than the glide is storable in the foot switch. (Refer to ⑳.)
The <b>TREMOLO</b> speed is improper.	The <b>TREMOLO</b> speed is adjustable. Adjust to your favorite speed. (Refer to ㉑.)
The contents of the <b>PROGRAM CHORD COMPUTER</b> , <b>FULLBAND SETTING COMPUTER</b> ( <b>EX25/EX35</b> ), etc. cannot be stored.	After pressing the <b>RECORD</b> button, press the necessary buttons within 5 seconds. The <b>RECORD</b> button turns off after a lapse of 5 seconds, making storage operation impossible. Press the <b>RECORD</b> button again.
When storing voices and effects in the <b>VOICE SETTING COMPUTER</b> , voices other than those desired are stored ( <b>EX25/EX35</b> ).	<ul style="list-style-type: none"> <li>● To store voices and effects, press the 1~4 (<b>EX25</b>) or 1~7 (<b>EX35</b>) buttons of the <b>VOICE SETTING COMPUTER</b> while the <b>SET</b> button is held down. (Refer to ⑬.)</li> <li>● To select your favorite registration from the 32 factory-preset voice combinations, press the <b>RECORD</b> button and depress one of the number buttons of the <b>VOICE SETTING COMPUTER</b> within 5 seconds. Then press <b>RHYTHM</b> button(s). Finally, press the selected number button again. (Refer to ㉒.)</li> </ul>
Storage is not possible with the <b>PROGRAM CHORD COMPUTER</b> .	<ul style="list-style-type: none"> <li>● Check that the <b>PCC</b> indicator is slowly flashing. Pressing the <b>FINGERED</b> button turns off the <b>RECORD</b> button, making storage operation impossible.</li> <li>● Do not release the left hand (chord designation) before pressing the measure keys (  ,  and  ).</li> </ul>
The stored registration cannot be used when performance is started with the <b>PLAY SEQUENCER</b> button turned on ( <b>EX25/EX35</b> ).	To use the stored registration, turn on the <b>FSC</b> button and then press the <b>PS/1</b> key on the lower keyboard.
The stored introduction is not reproduced during automatic performance ( <b>EX25/EX35</b> ).	<ul style="list-style-type: none"> <li>● Set the beginning of a song, such as an introduction, before turning on the <b>RECORD</b> button.</li> <li>● To add an introduction after the <b>RECORD</b> indicator and <b>PLAY SEQUENCER</b> indicator flash, set it after turning on the <b>FSC</b> button. Then turn off the <b>FSC</b> button.</li> </ul>
No storage is possible even when the <b>RECORD</b> indicator and <b>PLAY SEQUENCER</b> indicator are slowly flashing ( <b>EX25/EX35</b> ).	<ul style="list-style-type: none"> <li>● No storage is possible when the <b>FSC</b> button is turned on. Turn it off before playing.</li> <li>● If another <b>PLAY SEQUENCER</b> indicator is lit, press the <b>START/STOP</b> button for automatic performance of the stored part. Another part can then be stored.</li> </ul>