

YAMAHA
FM VOICE EDITOR

FED-1 Ver. 1.00

User's Guide

Thank you for purchasing a Yamaha FM Voice Editor FED-1. FED-1 is a software program that allows you to display the data of the built-in Voices of an HX-Series Electone, FVX-1 Voice Expander Module, or other device at a computer's screen so you can freely edit the various parameters of the FM Tone Generator. To take full advantage of the numerous functions offered by FED-1 under optimum operating conditions, please read through this User's Guide carefully before actual use.

- When using the FED-1 program, be sure to also refer to your computer's instruction manual as well as the User's Guide for the devices that make up your HX Expanded System.
- To avoid unexpected accidents, be sure to read "Handling Precautions" prior to actual use.
- The contents of this Guide are subject to change without advance notice.
- While every precaution has been taken to ensure the accuracy of this Guide, please contact the Yamaha Music Dealer where you purchased this unit in the case you have any questions or detect any error or omission.

Contents

	Page
I. INTRODUCTION	<ul style="list-style-type: none"> 1. Handling Precautions.....2 2. Connection Procedures.....3 3. Description of the Keyboard.....4 4. Making a Working Copy of the System Disk.....5 5. Summary of Program Operation.....6
II. STARTING UP THE PROGRAM	<ul style="list-style-type: none"> 1. How to Start Up the Program8 2. Specifying the Model for Editing9
III. DIRECTORY MODE	<ul style="list-style-type: none"> 1. The DIRECTORY Display and Menu.....10 2. Specifying the Voice Group to be Edited.....11 3. Reading the Voice Data.....12 4. Switching Modes.....13 5. Writing the Voice Data.....14 6. Other Operations in DIRECTORY Mode.....15
IV. EDIT MODES	<ul style="list-style-type: none"> 1. EDIT 1 Display and Menu18 2. Parameter Editing in EDIT 1 Mode.....19 3. EDIT 2 Display and Menu20 4. Parameter Editing in EDIT 2 Mode.....21 <ul style="list-style-type: none"> ■ List of EG Parameters.....22 ■ List of OSC Parameters23 ■ List of LEVEL Parameters.....24 ■ List of LFO Parameters25 ■ List of ETC Parameters26 5. Changing the Algorithm27 6. Copying Parameters.....28 7. Other Operations in EDIT Modes.....28
V. ALGORITHM EDIT MODE	<ul style="list-style-type: none"> 1. ALGORITHM EDIT Display and Menu30 2. Selecting/Reading the Algorithm Data31 3. Editing an Algorithm.....32 4. Writing the Algorithm Data.....34 5. Other Operations in ALGORITHM EDIT Mode.....35
VI. FILTER MODE	<ul style="list-style-type: none"> 1. FILTER Display and Menu36 2. Operations in FILTER Mode.....37
VII. UTILITY MODE	<ul style="list-style-type: none"> 1. UTILITY Display and Menu38 2. Formatting a Data Disk39 3. Converting Voice Data40
VIII. OTHER INFORMATION	<ul style="list-style-type: none"> • Warnings and Error Messages41 • Specifications.....41 • Blank Voice Data Charts.....42

Thank you for purchasing a Yamaha FM Voice Editor FED-1.

FED-1 is a software program that allows you to display the data of the built-in Voices of an HX-Series Electone, FVX-1 Voice Expander Module, or other device at a computer's screen so you can freely edit the various parameters of the FM Tone Generator. To take full advantage of the numerous functions offered by FED-1 under optimum operating conditions, please read through this User's Guide carefully before actual use.

- When using the FED-1 program, be sure to also refer to your computer's instruction manual as well as the User's Guide for the devices that make up your HX Expanded System.
- To avoid unexpected accidents, be sure to read "Handling Precautions" prior to actual use.
- The contents of this Guide are subject to change without advance notice.
- While every precaution has been taken to ensure the accuracy of this Guide, please contact the Yamaha Music Dealer where you purchased this unit in the case you have any questions or detect any error or omission.

Contents

	Page
I. INTRODUCTION	<ul style="list-style-type: none"> 1. Handling Precautions.....2 2. Connection Procedures.....3 3. Description of the Keyboard.....4 4. Making a Working Copy of the System Disk.....5 5. Summary of Program Operation.....6
II. STARTING UP THE PROGRAM	<ul style="list-style-type: none"> 1. How to Start Up the Program8 2. Specifying the Model for Editing9
III. DIRECTORY MODE	<ul style="list-style-type: none"> 1. The DIRECTORY Display and Menu10 2. Specifying the Voice Group to be Edited11 3. Reading the Voice Data12 4. Switching Modes.....13 5. Writing the Voice Data14 6. Other Operations in DIRECTORY Mode.....15
IV. EDIT MODES	<ul style="list-style-type: none"> 1. EDIT 1 Display and Menu18 2. Parameter Editing in EDIT 1 Mode.....19 3. EDIT 2 Display and Menu20 4. Parameter Editing in EDIT 2 Mode.....21 <ul style="list-style-type: none"> ■ List of EG Parameters.....22 ■ List of OSC Parameters23 ■ List of LEVEL Parameters.....24 ■ List of LFO Parameters25 ■ List of ETC Parameters26 5. Changing the Algorithm27 6. Copying Parameters.....28 7. Other Operations in EDIT Modes.....28
V. ALGORITHM EDIT MODE	<ul style="list-style-type: none"> 1. ALGORITHM EDIT Display and Menu30 2. Selecting/Reading the Algorithm Data31 3. Editing an Algorithm32 4. Writing the Algorithm Data.....34 5. Other Operations in ALGORITHM EDIT Mode.....35
VI. FILTER MODE	<ul style="list-style-type: none"> 1. FILTER Display and Menu36 2. Operations in FILTER Mode.....37
VII. UTILITY MODE	<ul style="list-style-type: none"> 1. UTILITY Display and Menu38 2. Formatting a Data Disk39 3. Converting Voice Data40
VIII. OTHER INFORMATION	<ul style="list-style-type: none"> • Warnings and Error Messages41 • Specifications.....41 • Blank Voice Data Charts.....42

I-1 Handling Precautions

Compatible Personal Computer

- FED-1 can be used by loading it in the Toshiba personal computer model below:
 - ▶ **Toshiba T3100**
- To use the FED-1 program, you must install the Yamaha MIDI Interface Board MI-3100 in the expansion slot at the rear panel of the computer. (→page 3)

Compatible Disks

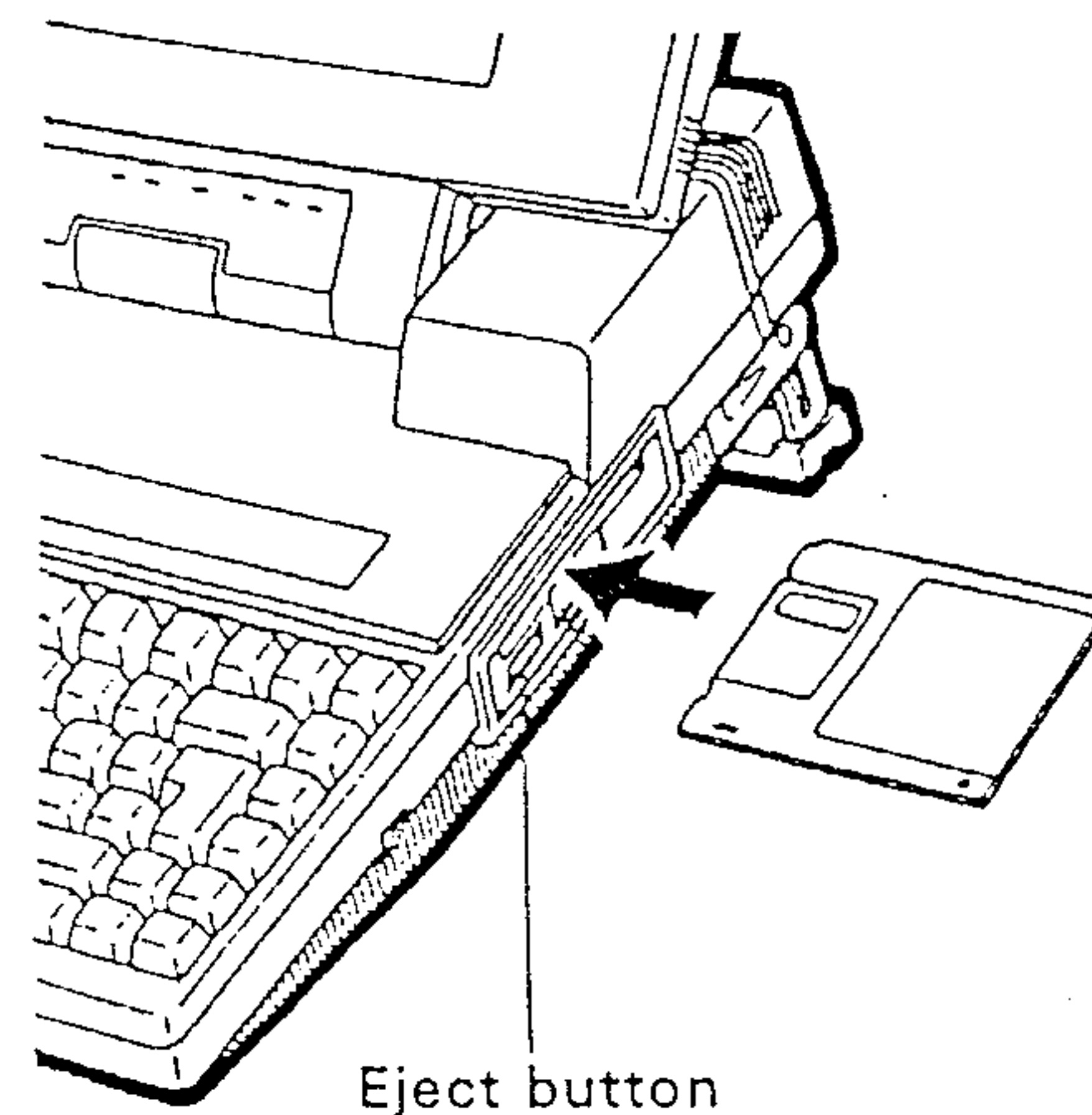
- Before initial use of FED-1, make a working copy of the FED-1 system disk by backing it up on an unformatted floppy disk (or the built-in hard disk). (→page 5)
- If you wish to save the edited Voice data on a disk separate from your working copy of the system disk or the hard disk, prepare a data disk. (→page 39)
- Use only the 3.5" microfloppy disk type indicated below for your working copy of the system disk and your data disks. Use of other types of disks may result in malfunctions of the computer or software program and in data errors.
 - ▶ **2DD 3.5" microfloppy disk**

Handling Your Floppy Disks

- Never open the shutter section of the disk. Data errors may be caused if dirt or dust contacts its internal magnetic surface.
- Do not place your disks close to any device that emits a strong magnetic field, such as a speaker or TV.
- Never expose the disks to direct sunlight or sources of high temperature.
- Do not place heavy objects, such as books, on top of the disks.
- Take care not to spill water or otherwise moisten the disks.
- Make sure to store the disks in the below environment:
 - ▶ Storage temperature: 39° to 127°F
 - ▶ Storage humidity: 8% to 90% RH
 - ▶ Area not exposed to dust, sand, smoke, etc.
- Apply the disk label in the proper position. If you wish to change the label, always remove the old label before applying a new one.

Installing or Removing a Disk

- To install a disk in the disk drive, insert it horizontally with the label facing upward as shown below. Press the disk into the drive until it clicks into place.

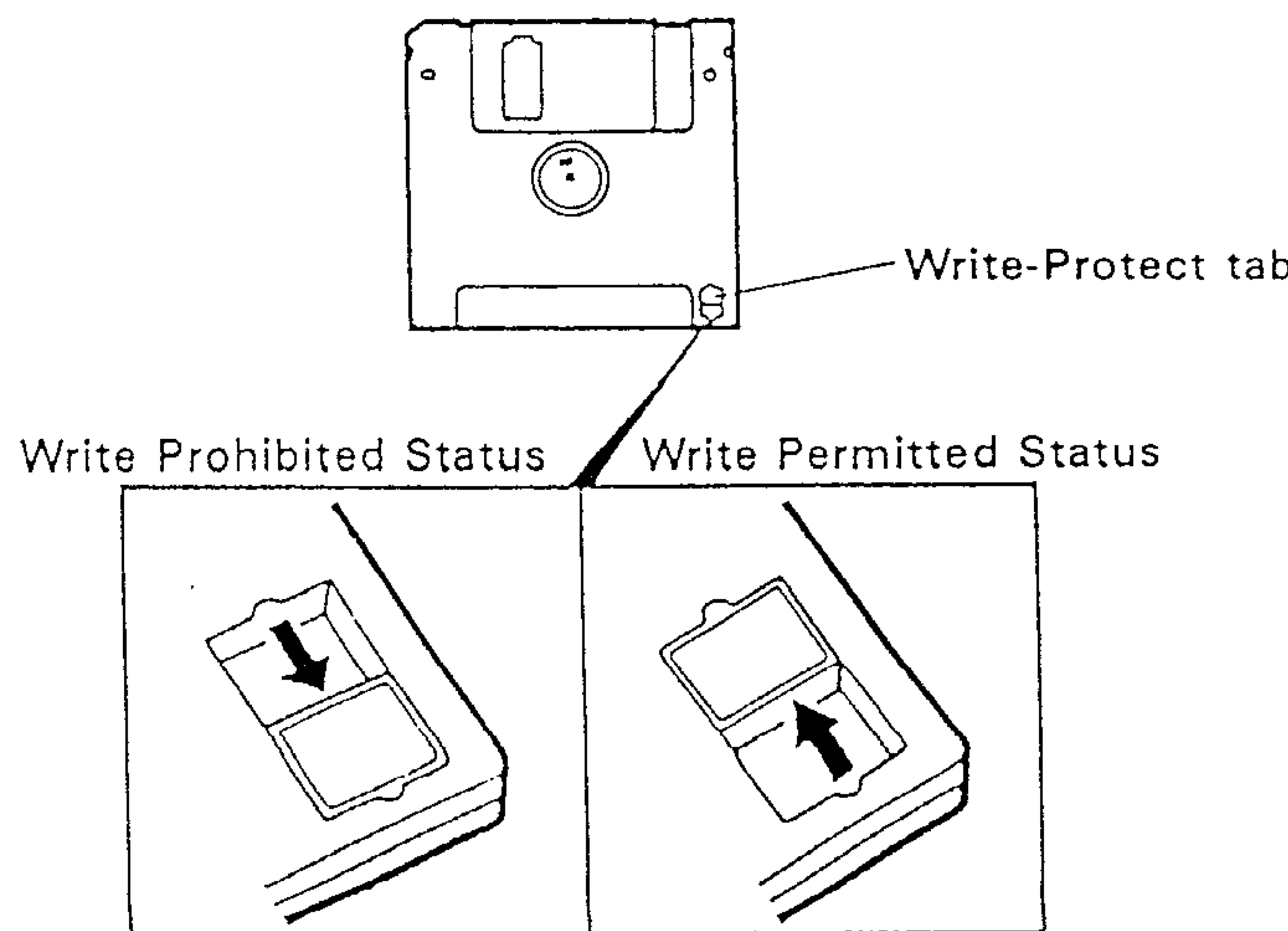


- To remove the disk from the drive, press the Eject button.

CAUTION: The Disk in Use lamp located below the screen lights up whenever data is being read or written, so never remove the disk while this lamp is lit.

The Disk's Write-Protect Feature

- **Write Prohibited Status:** If you slide the Write-Protect tab toward the disk's outer edge, writing of data to the disk is prohibited.
- **Write Permitted Status:** If you slide the Write-Protect tab toward the inside, data can be written to the disk.



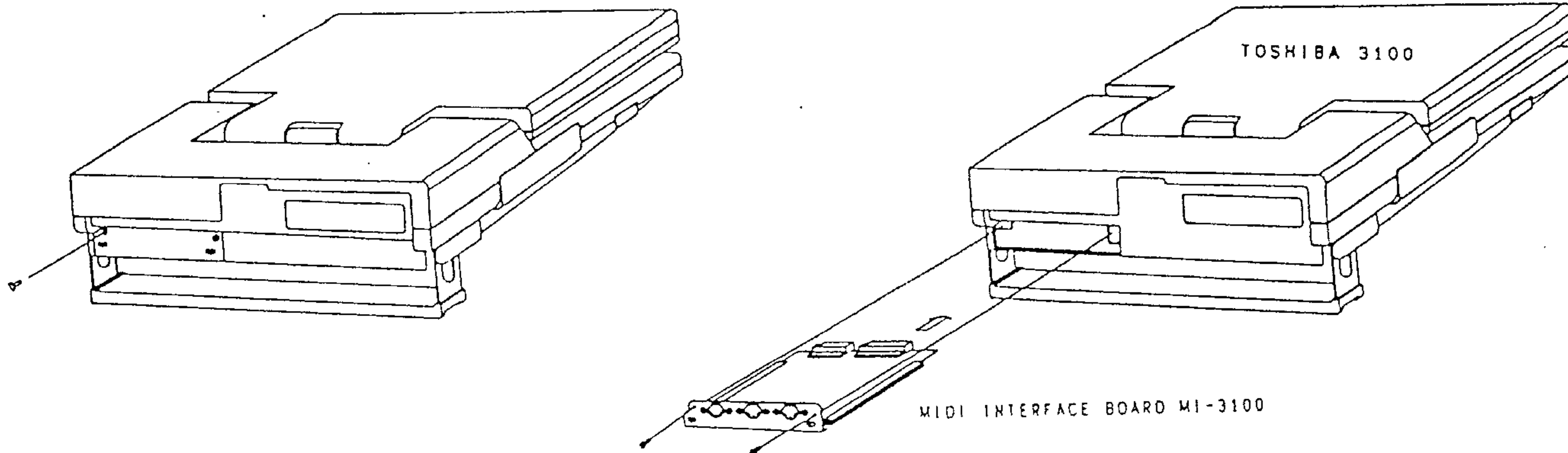
I-2

Connection Procedures

Installing the MIDI Interface Board

- As shown below, remove the two screws that secure the cover of the expansion slot at the rear panel of the computer, then remove the cover.

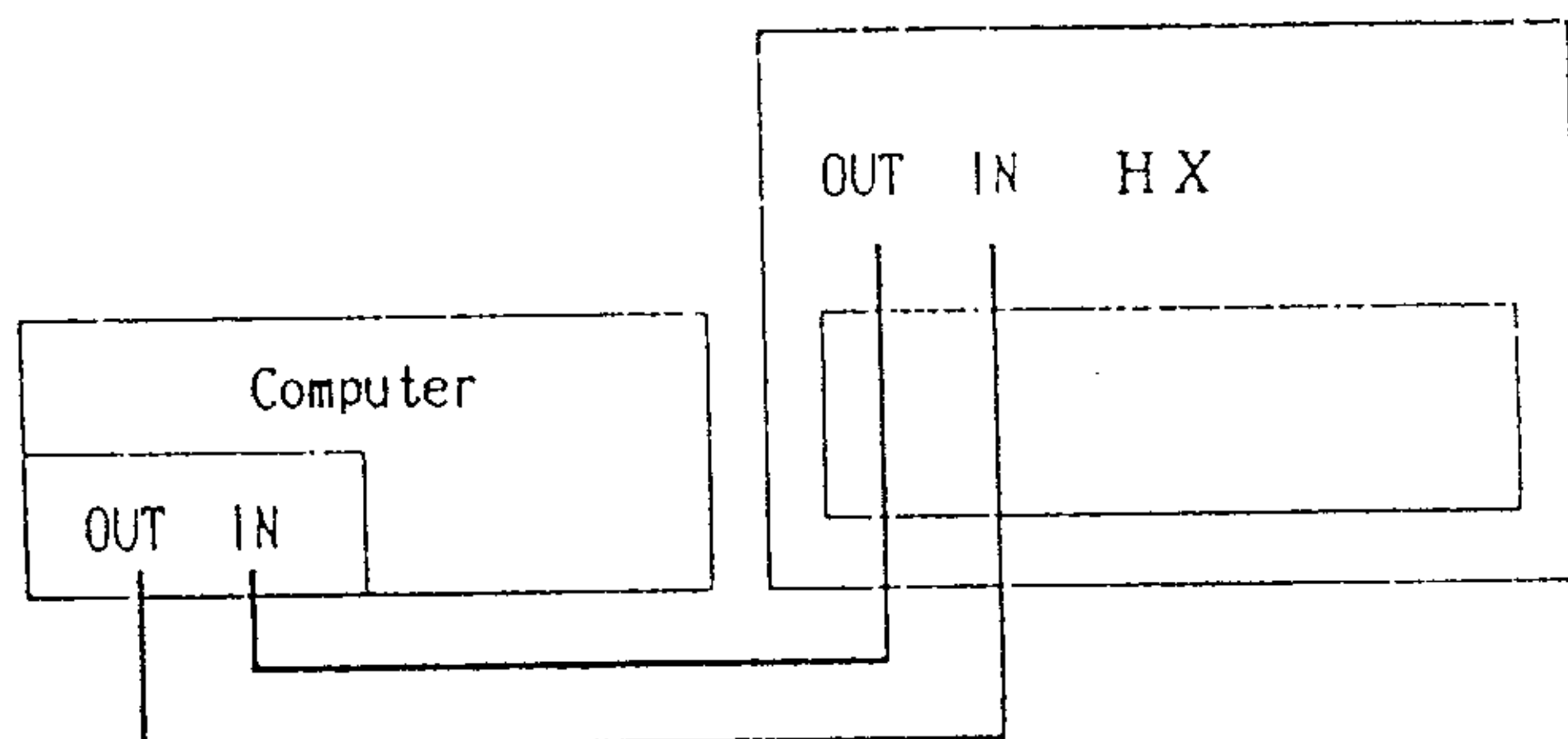
- Install the MIDI Interface Board MI-3100 in the expansion slot, then secure the expansion slot cover by tightening its two screws as shown below.



Connecting the Model to be Edited *The input/output of Audio signals have been omitted in the description below.

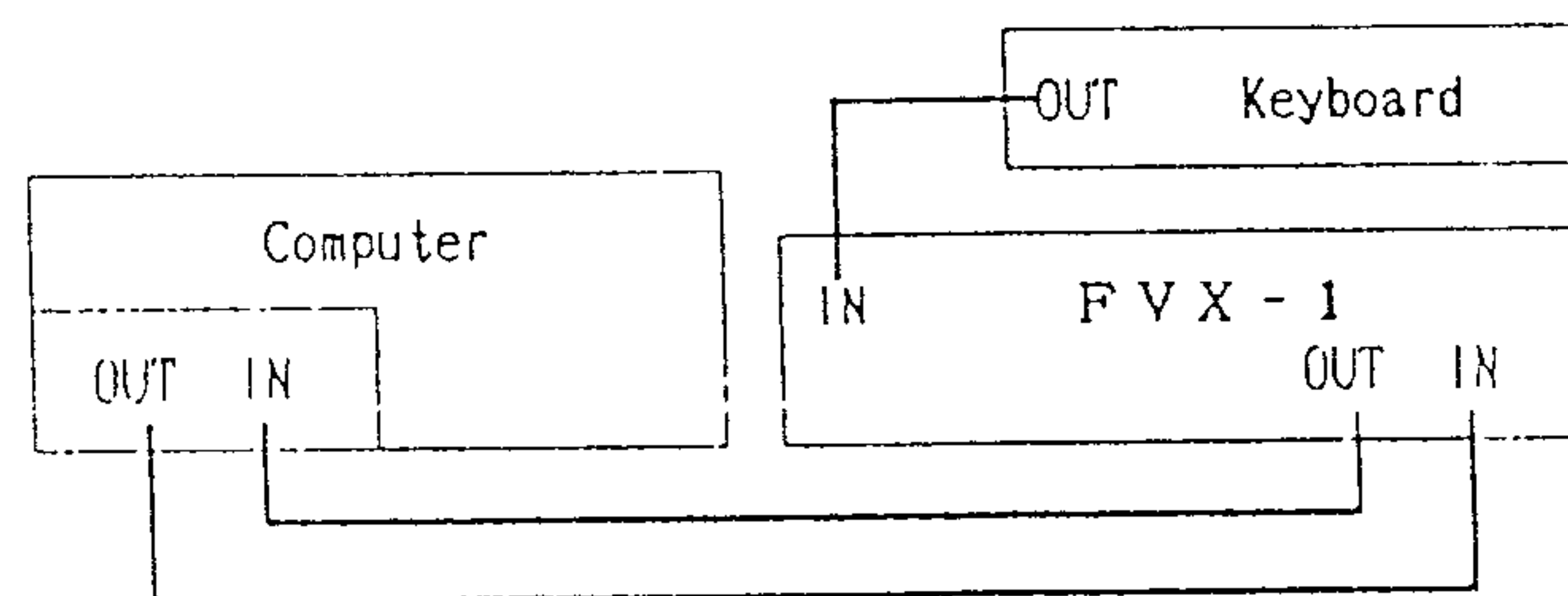
■ Connecting to HX

Respectively connect the MIDI IN/OUT jacks of the MIDI Interface Board to the MIDI IN/OUT jacks of HX.



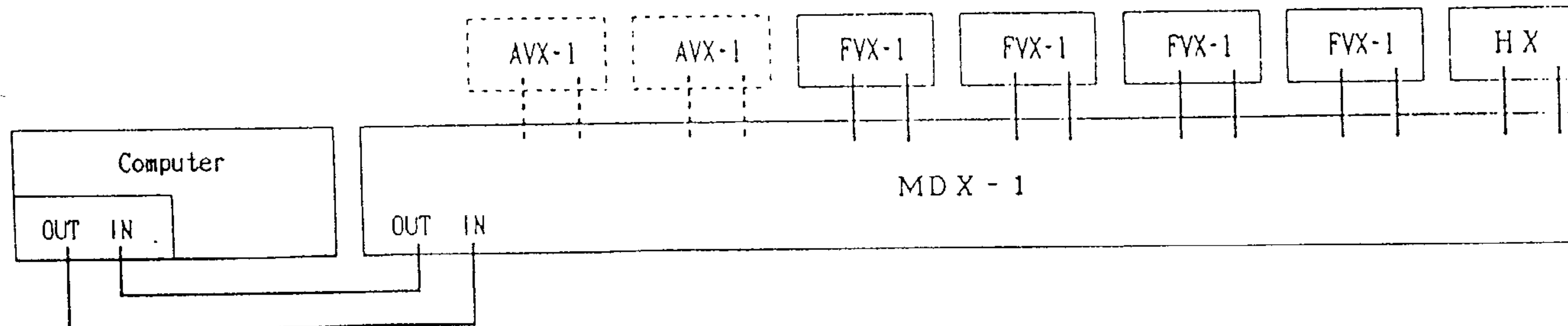
■ Connecting to FVX-1

Respectively connect the MIDI IN/OUT jacks of the MIDI Interface Board to the MIDI IN/OUT jacks on the FVX-1 rear panel; then connect the MIDI IN jack on the FVX-1 front panel to the MIDI OUT jack of the keyboard.



■ Connecting to MDX-1

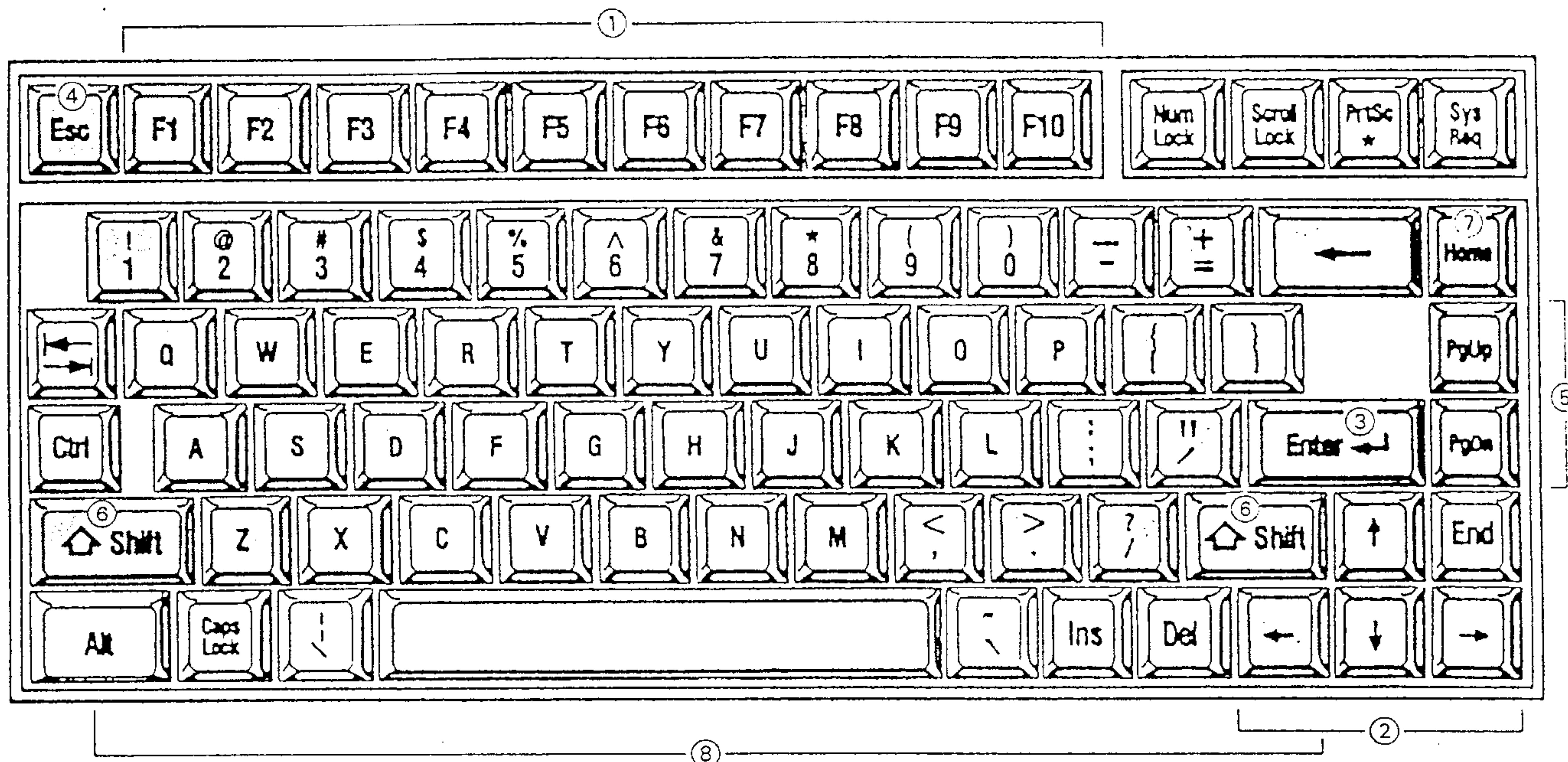
Respectively connect the MIDI IN/OUT jacks of the MIDI Interface Board installed in your computer to the CONTROL IN/OUT jacks of MDX-1. (For details, refer to the "HX-SERIES EXPANDED SYSTEM USER'S GUIDE.")



I-3 Description of the Keyboard

*While the computer is under FED-1 control, only the shaded areas of its keyboard can be used.

*For information on basic keyboard operation and other details, refer to your computer's instruction manual.



① Functions Keys [F1] to [F10]

These keys are used to execute various jobs, such as switching modes, selecting the Voice parameter group, saving/loading Voice data, and so on.

② Cursor Shift Keys [↑] [↓] [←] [→]

These keys are used to move the cursor on the screen in the direction indicated on each key. The cursor can only be moved to a parameter or menu position where the setting or editing of data is permitted.

③ Enter ↵ key

Press this key to start the operation indicated by the cursor, to input the data that was selected by another operation, and so on. This key can also be pressed after the "OK/Cancel" prompt to select "OK".

④ Escape key [Esc]

Press this key to cancel a job after pressing the wrong function key, to prevent a selected job (except the Mode Shift job) from being executed, etc. This key can also be pressed after the "OK/Cancel" prompt to select "Cancel."

⑤ UP/DOWN keys [PgUp]/[PgDn]

Press these keys to edit the setting of a parameter or other data indicated by the cursor. These keys let you increase/decrease numeric values, switch the ON/OFF status, switch the Parameter mode, and so on.

▶ [PgUp] key = UP

▶ [PgDn] key = DOWN

⑥ Shift Keys [Shift]

By pressing the UP or DOWN key while holding down a Shift key, you can change a data value by multiple units using single operation.

⑦ Home Key [Home]

Pressing this key in any mode activates the Help function.

⑧ Alphanumeric Keys

Besides being used for keying in the Voice Names and Voice filenames, the alphanumeric keys also perform the special functions below:

- ▶ [1] to [0]: Used to input the Voice No. during Load and Save jobs.
- ▶ [1] to [8]: Used to set the output level of a specific Operator to zero in the DIRECTORY, EDIT 1, EDIT 2, or ALGORITHM EDIT mode. During 4-Operator voice editing, note that only keys [1] to [4] can be used; in case of 16-Operator voice editing, keys [Q] to [I] are also used.
- ▶ [A] to [K]: Used to select the Operator to be edited in EDIT 1 mode. During 4-Operator voice editing, note that only keys [A] to [F] can be used; in case of 16-Operator voice editing, keys [Z] to [,] are also used.
- ▶ [O] and [C]: Used to respectively select OK and Cancel during Load/Save jobs of Voice data, and other operations.

• Other Keys

- ▶ Space Bar: Used to insert a space when keying in a Voice Name.
- ▶ Backspace Key [←]: Used to cancel an input character during the input of Voice Names, Voice filenames, etc.

Outline

► Before you can actually start up your FED-1 program, you must first make a working copy of the FED-1 system disk by following the procedure below. After you finish making the working copy, be sure to store the original system disk in a safe place and use your working copy for everyday use.

• The procedure below indicates only the commands to be input after you have turned on your computer. For details on the use of other commands, refer to the "MS-DOS Manual" provided with your computer.

Procedure

■ The Required Disks

- MS-DOS System Disk (2/2)
- A new, unused 3.5" microfloppy disk (2DD)
- FED-1 System Disk

① Turn ON the computer's POWER switch to start up MS-DOS.

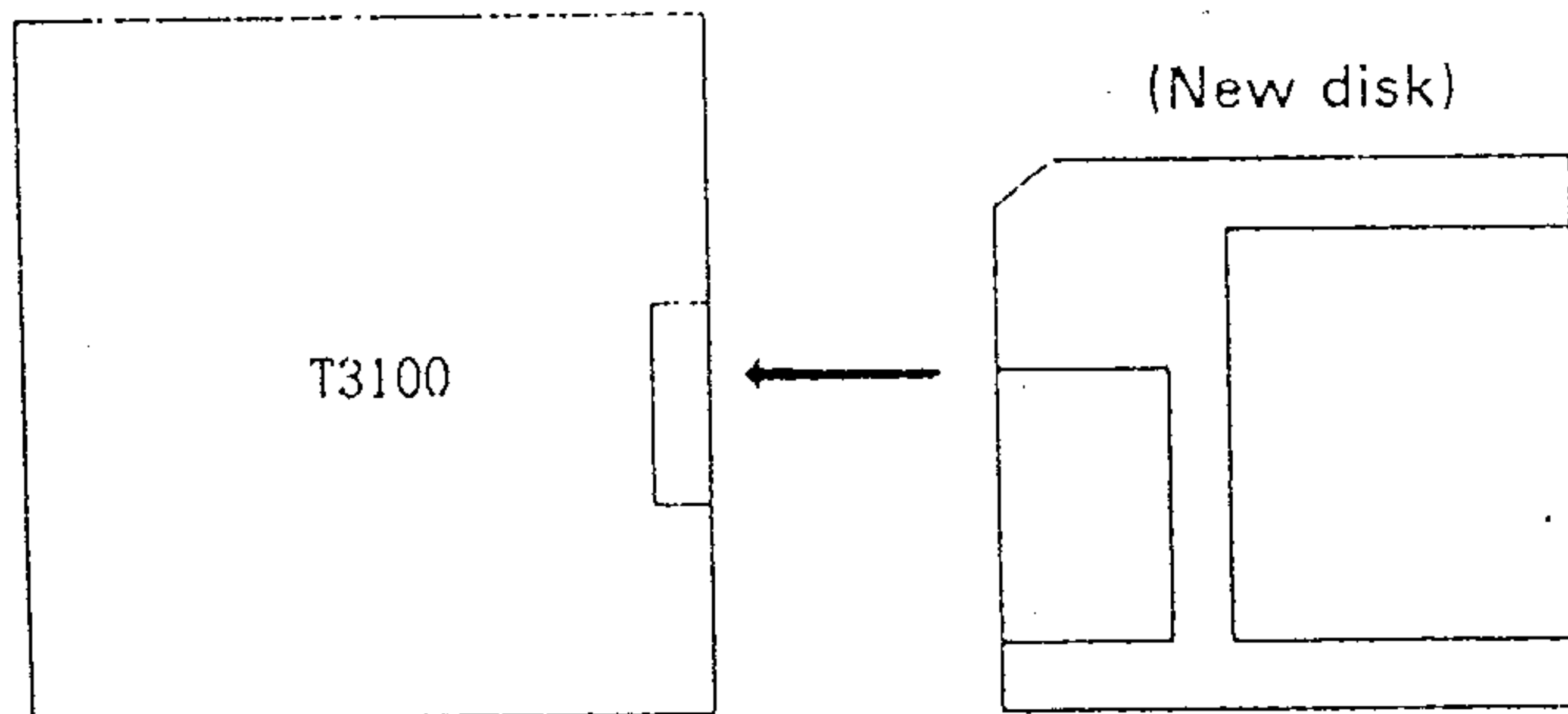
After inserting the MS-DOS system disk (2/2) in the disk drive, turn ON the computer to start up MS-DOS.

② Execute a FORMAT command.

After checking that the system prompt "A>" appears on the screen, input the command below then press the Enter ↵ key:

```
A>format b:/s/3
```

Following the instructions displayed on the screen, replace the MS-DOS system disk (2/2) with a new, unformatted disk.



Next, continue to follow the instructions displayed on the screen to format the new disk. After formatting is completed, remove the disk and re-insert the MS-DOS system disk (2/2).

③ Copy the FORMAT.COM file to your newly formatted disk.

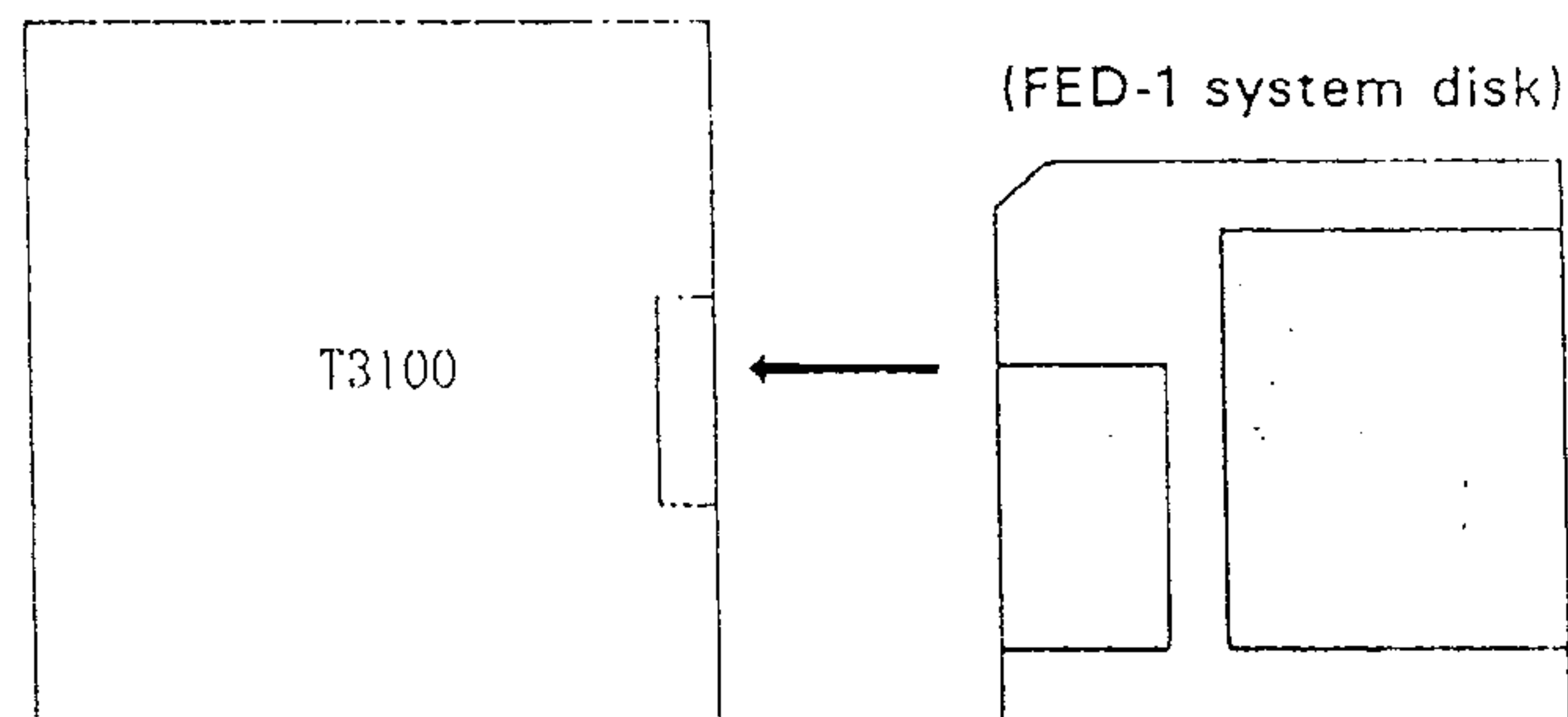
After checking that the system prompt "A>" appears on the screen, input the command below then press the Enter ↵ key:

```
A>copy format.com b:
```

Following the instructions displayed on the screen, replace the MS-DOS system disk (2/2) with the disk you formatted in Step ②, then press the Enter ↵ key. Now, the FORMAT.COM file will be copied to your new disk so you will be able to format data disks in UTILITY mode. (→page 39)

④ Make a backup copy of the FED-1 system disk.

First, insert the FED-1 system disk into the disk drive.



After checking that the system prompt "A>" appears on the screen, input the command below then press the Enter ↵ key:

```
A>backup b
```

Following the instructions displayed on the screen, alternately insert your newly formatted disk and the FED-1 system disk into the disk drive to back up the FED-1 system disk. (You will need to switch the disks a little over 10 times.)

The above procedure creates a working copy of the FED-1 system disk that you insert in your computer for actual daily use.

NOTE: To make a backup copy of the FED-1 program onto your hard disk, input [backup c] then press the ENTER ↵ key to execute the Backup operation. (For details on the Backup operation, refer to the "MS-DOS Manual" provided with your computer.)

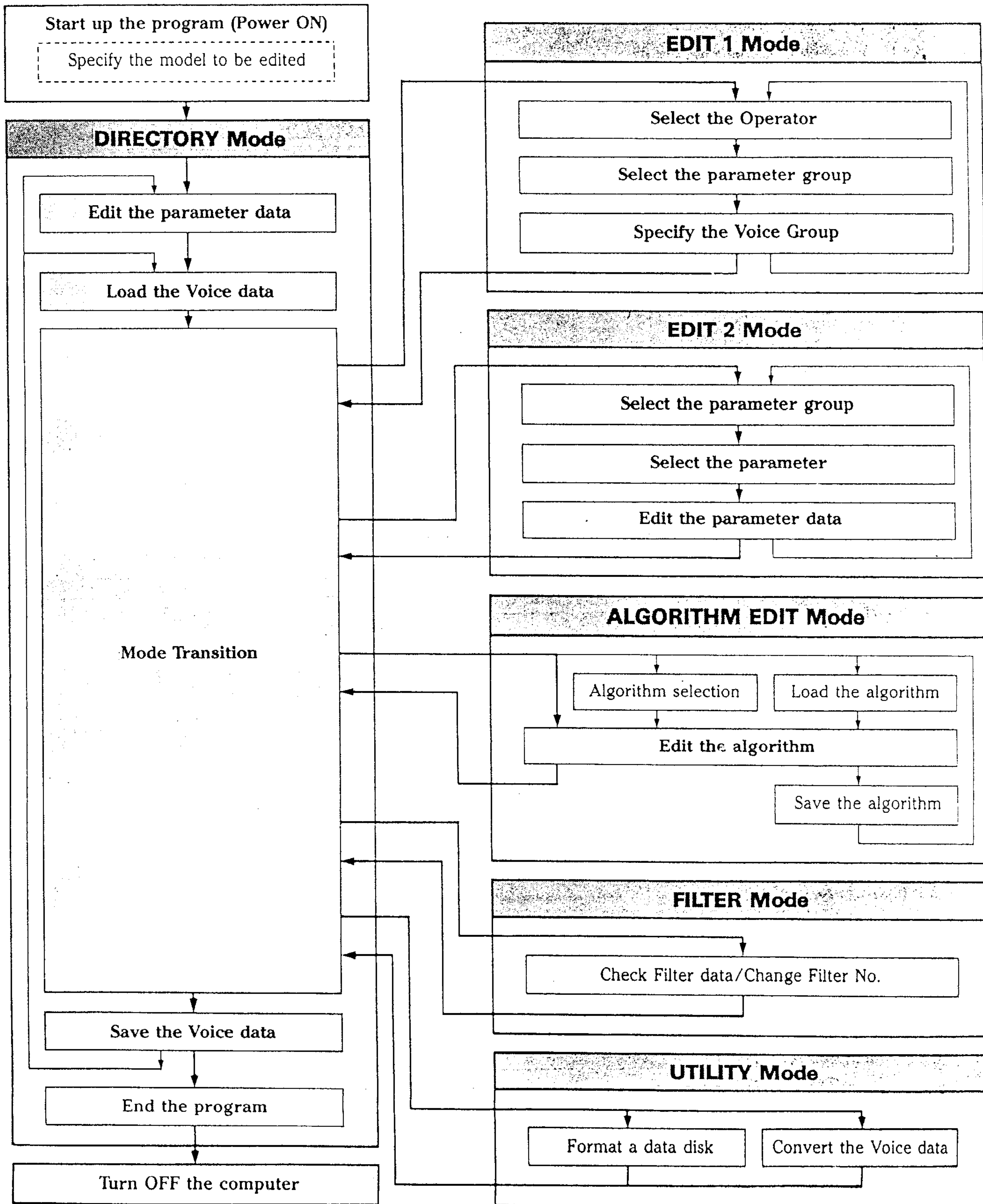
NOTE: If your computer has two floppy disk drives, first insert the MS-DOS system disk (2/2) in Drive A, and turn on your computer to start up MS-DOS. Next, insert the unformatted disk in Drive B then consecutively execute the same FORMAT and COPY commands shown in Steps ② and ③. Now, insert the FED-1 system disk in Drive A and the newly formatted disk in Drive B, then execute the same BACKUP command shown in Step ④.

⑤ Remove the disk from the drive, then turn OFF your computer.

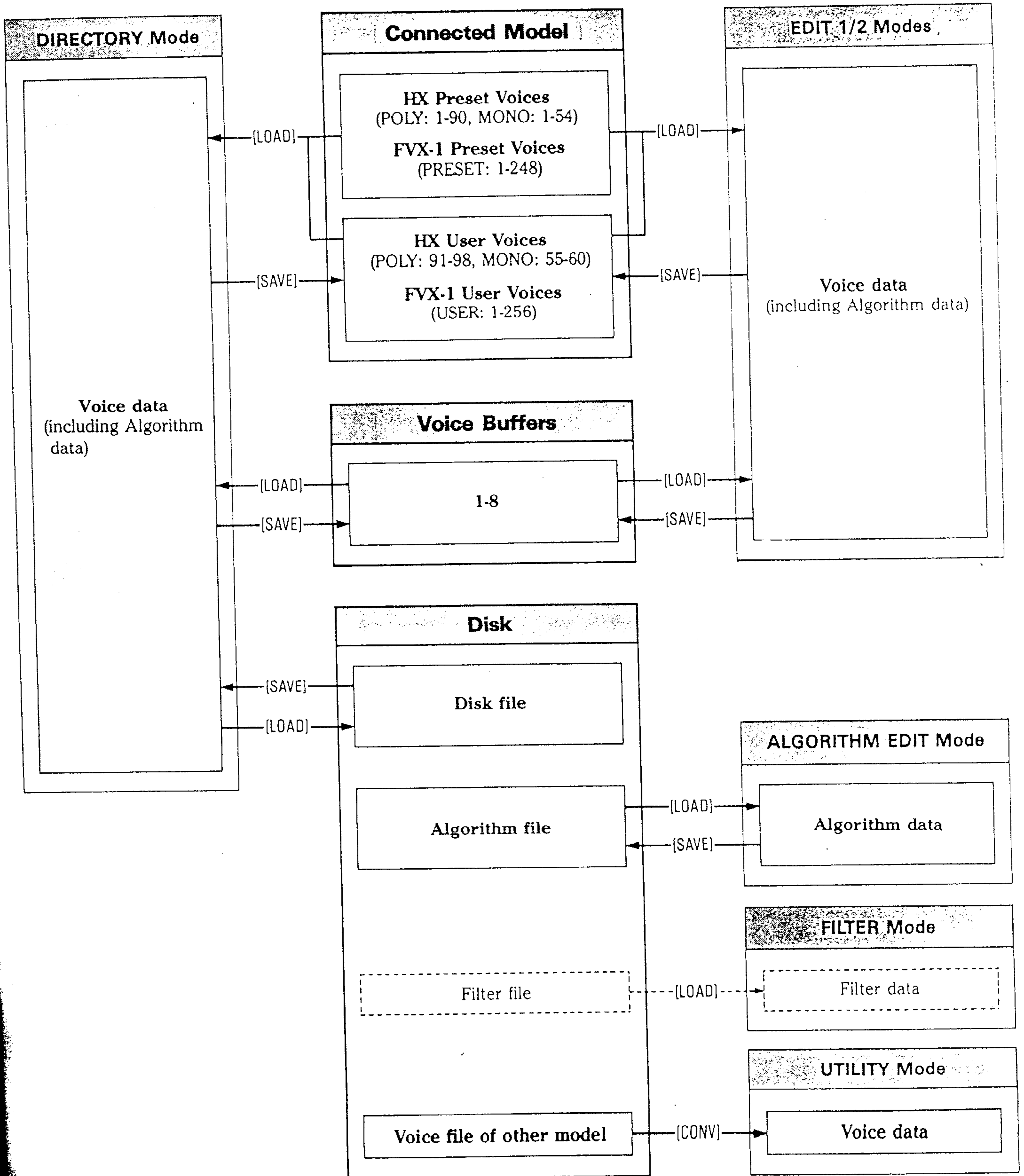
After making a working copy of the FED-1 system disk, write the disk's title on a label, and apply it to the disk.

I-5 Summary of Program Operation

Mode Transition and the Main Jobs in Each Mode



■ Loading/Saving the Data



II. STARTING UP THE PROGRAM

II-1 How to Start Up the Program

Outline

- By inserting your working copy of the FED-1 system disk and turning ON your computer, the FED-1 program starts up automatically.
- After program startup, the title display is shown then DIRECTORY mode is entered. If you have connected MDX-1, you will need to specify the model to be edited. (→page 9)

Procedure

① Check the connections.

Referring to the "Connection Procedures" described on page 3 of this Guide, make sure that the MIDI cables are properly connected.

② Turn ON the power of the connected device.

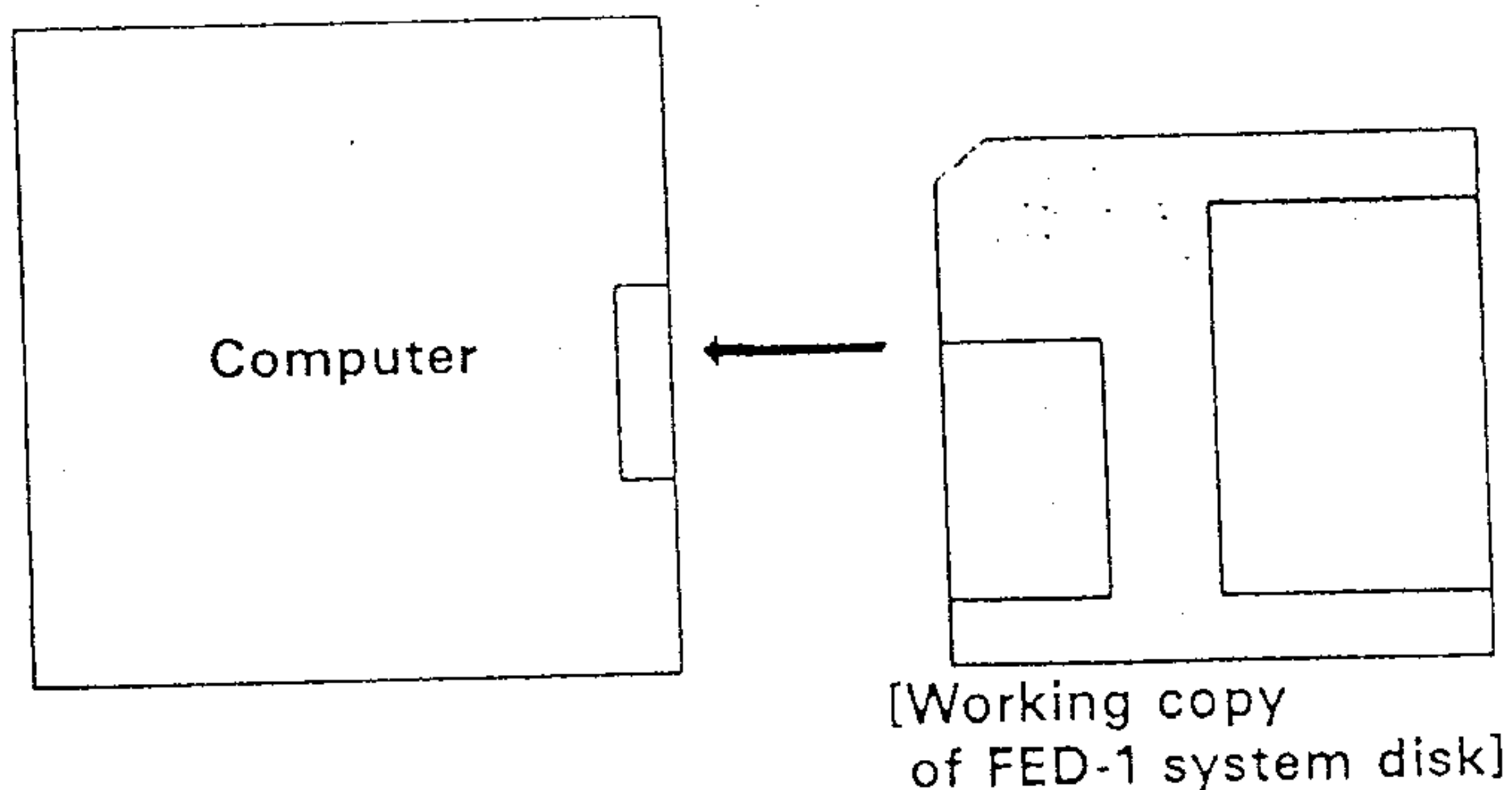
In case your computer is directly connected to HX or FVX-1, turn ON that connected device.

If your computer is connected to MDX-1, first turn ON the devices (HX, Voice Expander Module, etc.) connected to MDX-1; next, insert the MCP-1 system disk (2/2) in the MDX-1 disk drive, then turn ON the power of MDX-1.

CAUTION: Make sure the MCP-1 system disk (2/2) is inserted in the drive before turning ON MDX-1.

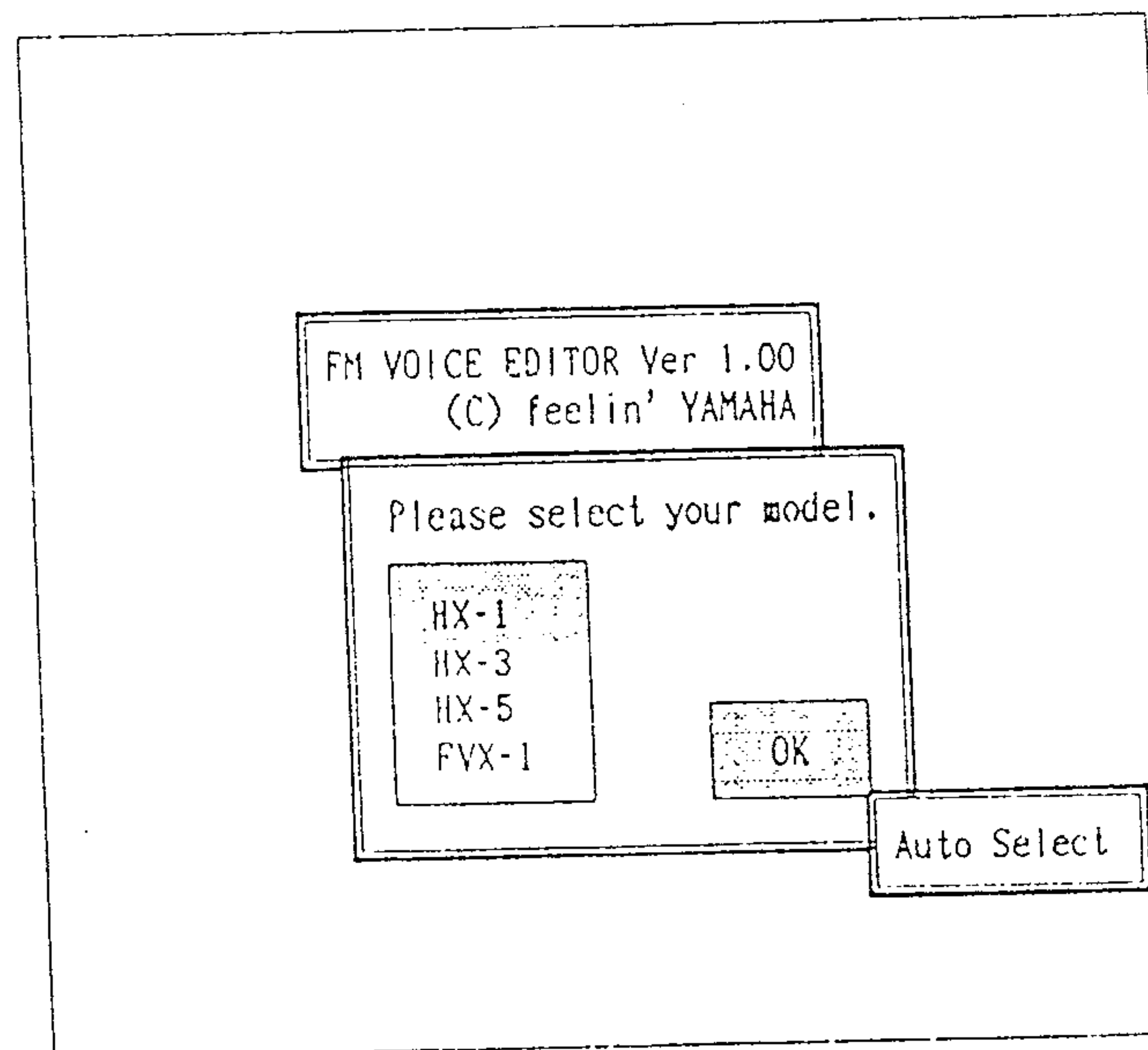
③ Insert your working copy of the FED-1 system disk into the disk drive of the computer.

Insert the working copy of the FED-1 system disk that you created according to the procedure on page 5 of this Guide. The original FED-1 system disk cannot be used.



④ Turn ON the computer.

When the computer is turned ON, the initial display of MS-DOS appears. After about 30 seconds, the welcome message of FED-1 is displayed. Next, the title display of FED-1 is displayed as shown below.



▶ In case of direct connection to HX or FVX-1: The connected device will be automatically selected as the model for which Voice editing is to be performed then, after a few seconds, the DIRECTORY mode is entered. (The figure above shows the case when HX is directly connected.)

▶ In case of connection to MDX-1: Specify the model for which Voice editing is to be performed as well as the keyboard (such as HX) to be used for sending Note ON/OFF data during editing. (→page 9)

NOTE: If you have turned ON your computer with the connected device turned OFF (or without any device connected), you must specify the model for which Voice editing is to be performed. (→page 9)

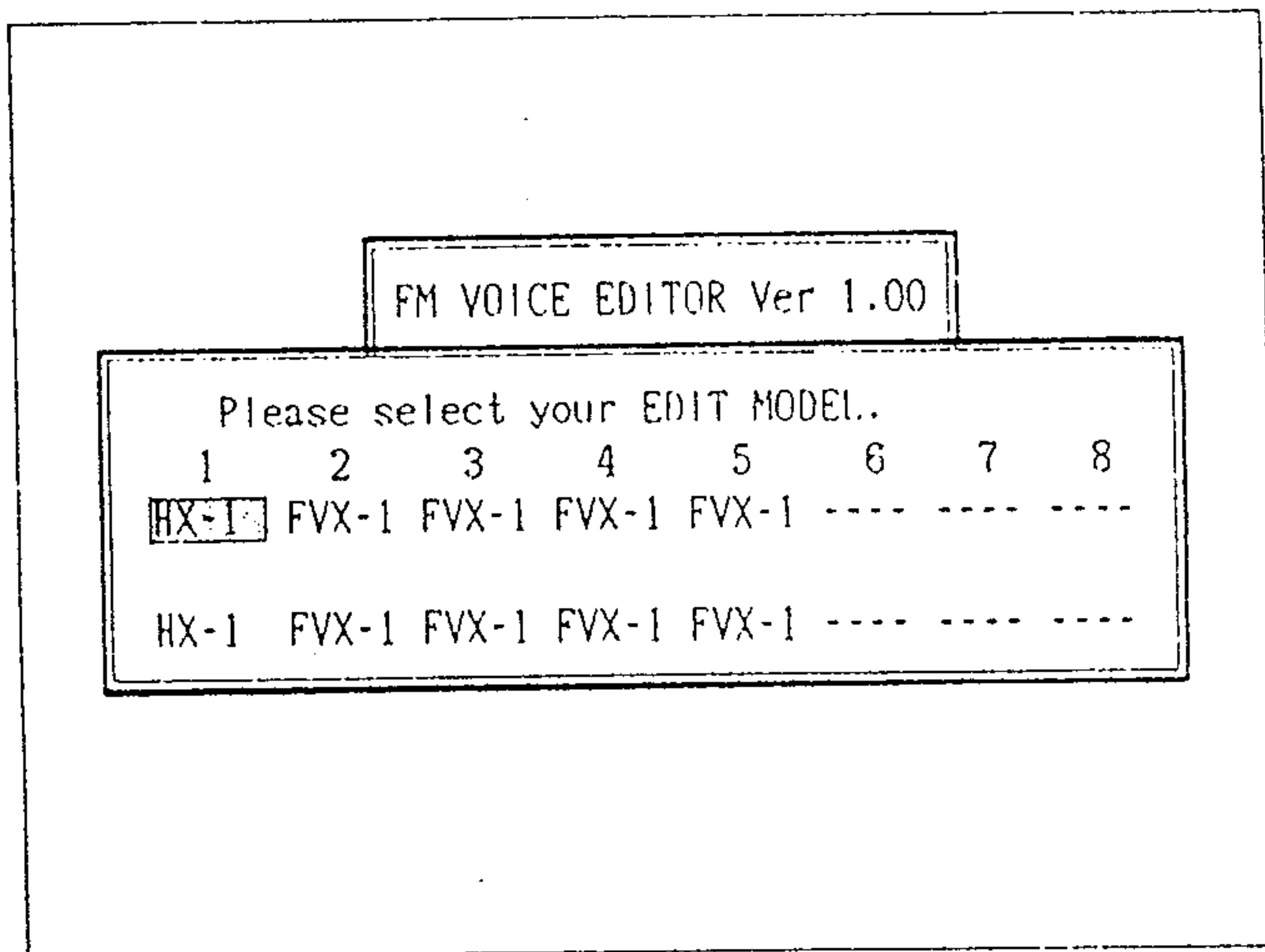
Outline

- In case your computer is connected to MDX-1, the devices connected to MDX-1 will be shown on the title display, so specify the model for which you wish to perform Voice editing.

- After specifying the target model, specify the keyboard you will use to sound the Voice while you are editing.

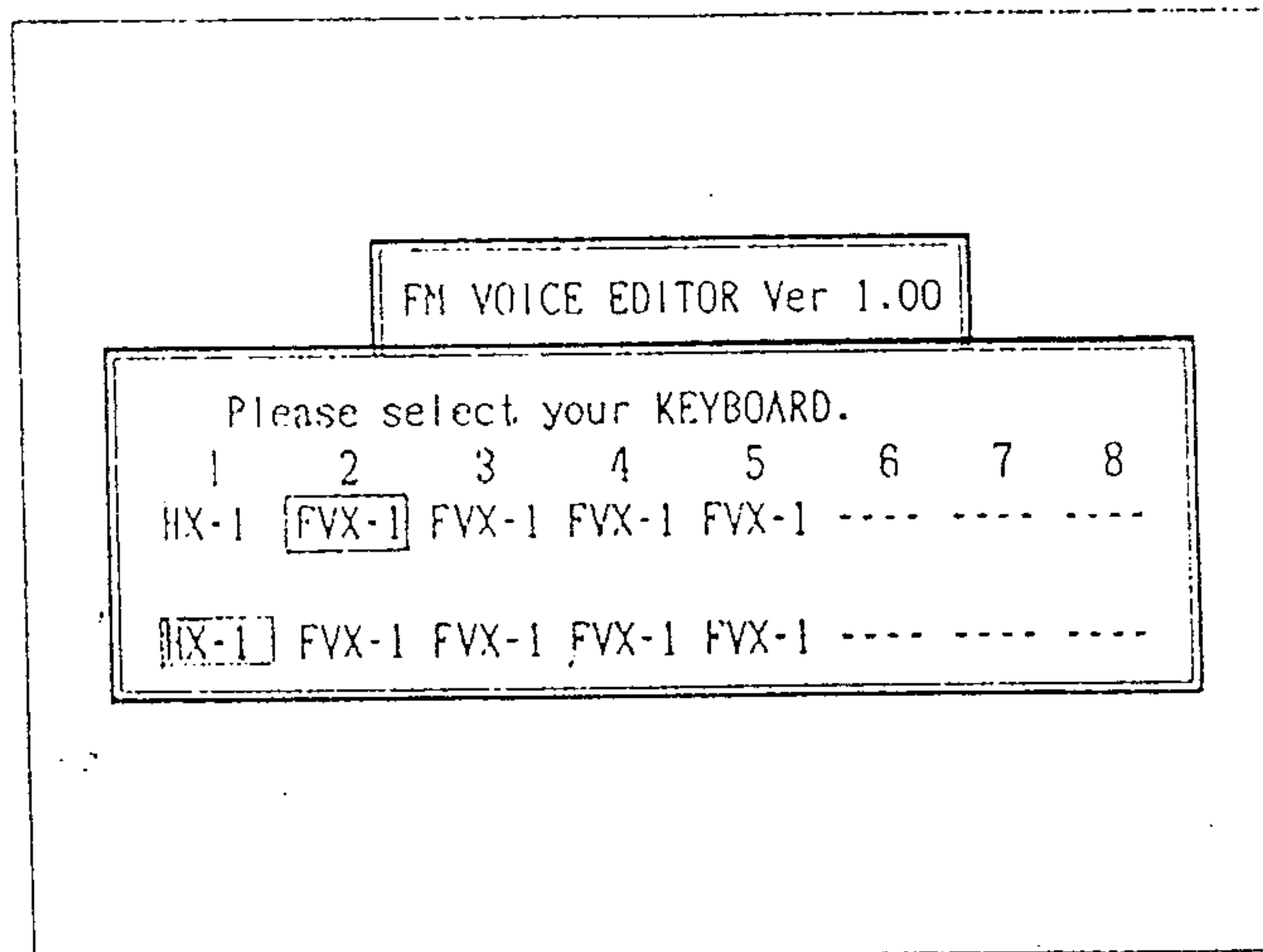
Procedure (When MDX-1 is connected)

- ① **Start up the FED-1 program.**
Following the instructions on page 8, turn ON the connected device and your computer to start up the FED-1 program.
- ② **Use the cursor shift keys to select the target model for editing, then press the Enter ↵ key.**
The message shown below appears at the title display and prompts you to specify the target model for editing. Move the cursor that is initially positioned at the top row to the model you wish to edit, then press the Enter ↵ key (or [O] key).



- ③ **Use the cursor shift keys to select the keyboard, then press the Enter ↵ key.**
After the target model for editing is selected, the cursor moves to the bottom row as shown below and prompts you to specify the keyboard you will use (for sending Note ON/OFF data) during editing. Move the cursor to the position of the desired keyboard, then press the Enter ↵ key (or [O] key). (For the usual connection shown below, you do not need to move the cursor.) After this step is completed, the DIRECTORY mode is automatically entered.

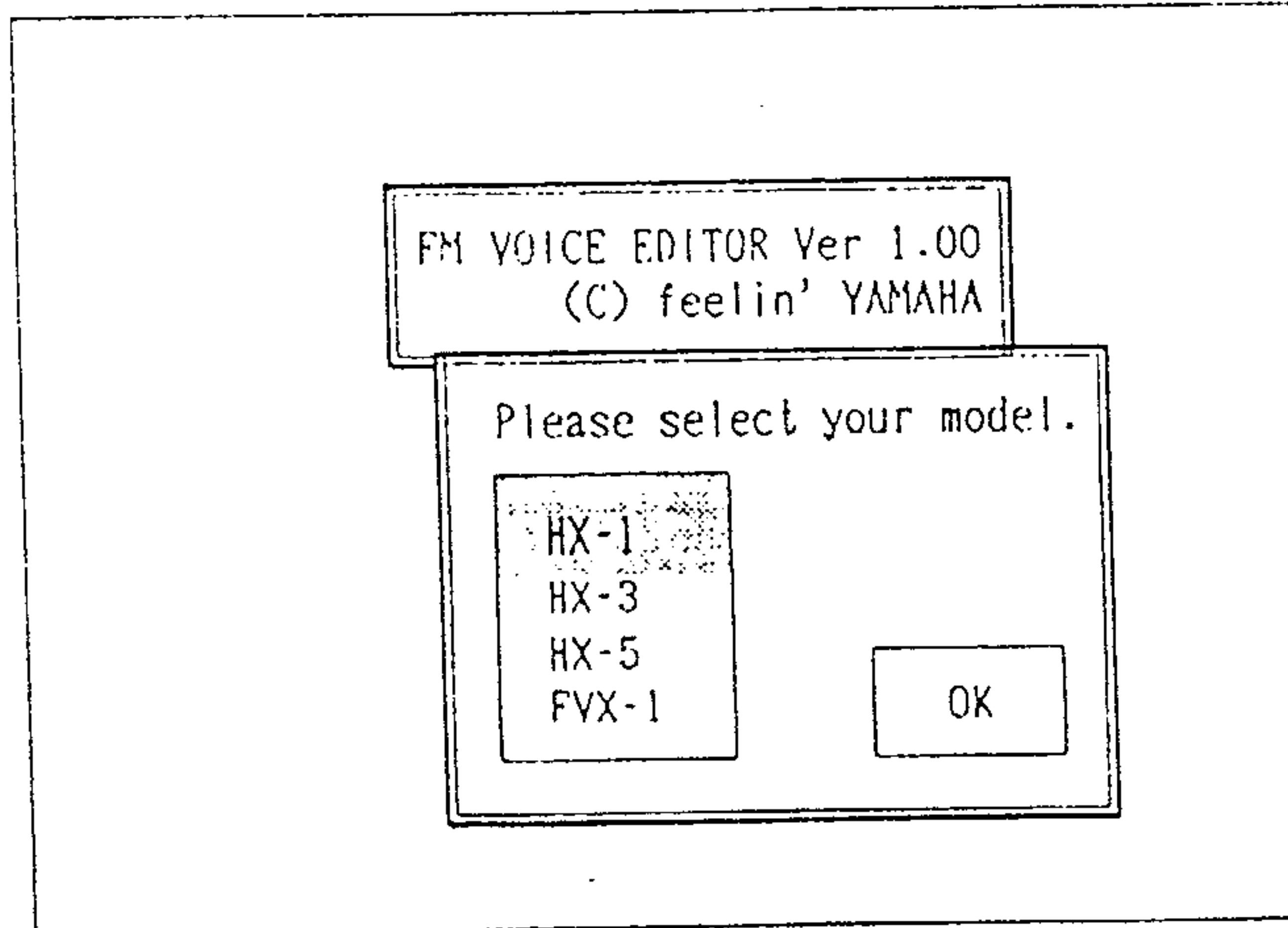
NOTE: If a MIDI-compatible keyboard other than HX is connected to MDX-1, the model name will not be displayed.



■ **If FED-1 is started up with the connected device turned OFF:**

If you have started up FED-1 with the connected device turned OFF (or without any device connected), the message shown on the right is shown at the title display and prompts you to specify the model for which you will perform Voice editing.

Use the cursor shift keys to select the target model, then press the Enter ↵ key (or the [O] key). The DIRECTORY mode will then be automatically entered.



III-1 The DIRECTORY Display and Menu

After the FED-1 program is started up and the title display is shown, the DIRECTORY mode is entered and the below display appears.

EDIT MODEL display

EDIT MODEL	VOICE GROUP	U. ORC.	VOICE NAME
VOICE FILE	A:\		
NEW FILE	ALGORITHM PRESET 1		
	8-7-6-5-4-3-2-1-CHI		
	VOICE BUFFER		
	1.	5.	
	2.	6.	
	3.	7.	
	4.	8.	
ESC	EDIT1	EDIT2	SAVE
PRINT	LOAD	SAVE	END

Function Key display

VOICE BUFFER display

● **EDIT MODEL display**

Displays the model name of the device to be edited.

① **VOICE GROUP display**

Displays the Voice Group to be edited. It is also possible to change the Voice Group to be edited. During normal operation, the Voice Group is selected before loading the Voice data. (→page 11)

② **VOICE NAME display**

Automatically displays the Voice Name corresponding to the loaded Voice data. You can also change the Voice Name if necessary. (→page 17)

③ **VOICE FILE display**

The top right area displays the drive name (and the sub-directory name, if one has been set) of the currently selected disk drive.

If Voice data has been saved to the currently selected disk drive (and subdirectory), the larger area below displays the Voice filenames. (→pages 12, 14, & 15)

④ **ALGORITHM display**

The top right area displays the Algorithm No. (or USER) of the loaded Voice data. The Algorithm No. may be changed if necessary. (→pages 27 & 31)

The larger area below displays the connection pattern of the Operators which corresponds to the currently selected algorithm. If the connection pattern cannot be completely displayed within this area, concurrently press a Shift key and cursor shift key to scroll the display and check the rest of the connection pattern.

● **VOICE BUFFER display**

If Voice data has been saved to the Voice Buffers, the corresponding Voice Names are displayed here. (→pages 12 & 14)

● **Function Key display**

Displays the job that will be executed when a Function Key of the computer is pressed in DIRECTORY mode. The ESC feature is also displayed.

III-2

Specifying the Voice Group to be Edited

Outline

- During usual FED-1 operation, specify the Voice Group containing the voices to be loaded before loading the Voice data you wish to edit.

- After specifying the Voice Group, set the connected device to allow the Voice Group to be sounded if you wish to hear the Voice during editing.

Procedure

- ① Move the cursor to the VOICE GROUP position, then press the Enter ↵ key.

When you press the Enter key, the cursor moves to the right where the name of the Voice Group is displayed, permitting you to change the name of the Voice Group.

VOICE GROUP	U. ORC.
-------------	---------



VOICE GROUP	U. ORC.
-------------	---------

NOTE: While the cursor is located at the right of the VOICE GROUP position, the Function Keys do not function.

- ② Use the [UP]/[DOWN] keys to select the Voice Group. The displayed Voice Group name changes each time the [UP] or [DOWN] key is pressed, so select the Voice Group you wish to edit. The Voice Groups which can be selected are listed below:

Model	Display	Voice Group Name	Voice Data
HX-1	U. ORC. L. ORC. U/L PERC.	UPPER ORCHESTRAL LOWER ORCHESTRAL U/L PERCUSSIVE	8-Operator/POLY
	U/L LEAD BASS	U/L LEAD PEDALS BASS	16-Operator/MONO
HX-3 HX-5	U. ORC. L. ORC. U/L PERC.	UPPER ORCHESTRAL LOWER ORCHESTRAL U/L PERCUSSIVE	4-Operator/POLY
	U/L LEAD BASS	U/L LEAD PEDALS BASS	8-Operator/MONO
FVX-1	1	TONE GROUP 1	8-Operator/POLY
	2	TONE GROUP 2	
	3	TONE GROUP 3	
	4	TONE GROUP 4	

- ③ Press the Enter ↵ key to input the Voice Group. When the Enter key is pressed, the cursor returns to the VOICE GROUP position and the Voice Group to be edited is input.

[How to Sound the Specified Voice Group]

Before starting the Voice Edit operation, perform the settings described below then play the keyboard to make sure the specified Voice Group is sounded.

■ In case of direct connection to HX:

- ① At the ENSEMBLE section, set the button of only the specified Voice Group to ON.
- ② Raise the volume of the specified Voice Group.
- ③ Set the MASTER VOLUME and the Expression Pedal volume to appropriate levels.
- ④ Try sounding the specified Voice Group by playing its corresponding keyboard (the upper, lower, or pedal keyboard). (Any voice may be selected.)

■ In case of direct connection to FVX-1:

- ① Set the MIDI Receive Channel of the specified FVX-1 to match the MIDI Transmit Channel of the keyboard connected to FVX-1. (MIDI Enable=ON).
- ② Perform settings to prevent voices from being sounded at the keyboard.
- ③ Raise the volume of the specified Tone Group and the MASTER VOLUME.
- ④ Try sounding the specified Tone Group by playing the keyboard (Any voice may be selected.)

■ In case of connection to MDX-1:

- ① In case HX was specified as the model to be edited, perform settings according to "In case of direct connection to HX" above, then try sounding the specified Voice Group.
- ② In case FVX-1 was specified as the model to be edited, perform settings according to "In case of direct connection to FVX-1" above, then try sounding the specified Tone Group.

III-3 Reading the Voice Data

Outline

- The usual procedure for editing Voice data using FED-1 is to load (read) the Voice data to the computer before starting editing.

Procedure

① Press [F8].

When the [F8] key is pressed to select the [LOAD] job, the LOAD display is inverted at the Function Key display to indicate that Voice data can be loaded.

② Use the cursor shift keys to select the source of the data to be loaded, then press the Enter ↵ key.

After the [F8] key is pressed, the message below appears on the screen and prompts you select the source for loading the Voice data.

```
LOAD
from  █DISK FILE█
      VOICE BUFFER
      HX-1
to    CURRENT.

Cancel  OK
```

Move the cursor to the source from which you wish to load Voice data, then press the Enter key (or [O] key). Voice data can be loaded from one of the three sources described below.

■ DISK FILE

Select this item to load Voice data (a Voice file) which has been saved on a disk. If you saved the data on a specific drive and subdirectory, be sure to specify the drive and subdirectory used for that Save operation before you press the [F8] key to actually execute the Load job. (→page 15)
If the pertinent Voice files cannot all be displayed at once, move the cursor to the VOICE FILE position then use the [UP]/[DOWN] keys to switch the page.

■ VOICE BUFFERS

The Voice Buffers are areas reserved in the computer's memory which can be used to save the edited Voice data of up to eight Voices total. Before you can load Voice data from a Voice Buffer, you need to save Voice data there in advance. (→page 15)

■ Connected Device (HX or FVX-1)

The figure above shows the sample display in case HX-1 is the target model for editing. If another model has been specified for editing, its name will be displayed in place of "HX-1".

NOTE: If you accidentally press the [F8] key or you wish to cancel the Load job, press the [Esc] key (or [C] key) and quit the Load job.

- In DIRECTORY mode, you can also load Voice data from the connected device or a Voice Buffer, or even load a Voice file which has been saved on a disk.

③ Perform the Load operation according to the source selected in Step ②.

■ When the selected LOAD source is DISK FILE:
The message below is displayed and prompts you to select the Voice file to be loaded, so perform selection by following Steps ① to ③.

```
Select file to LOAD

Cancel  OK
```

- ① Move the cursor to the Voice file you wish to load.
CAUTION: Data cannot be loaded from "NEW FILE".

- ② Press the Enter key (or [O] key) to select "OK". When "OK" is selected, the message below is displayed to confirm whether you wish to load the selected Voice file.

```
LOAD from STRINGS1.HIP

Load this file.

Cancel  OK
```

- ③ To load that file, press the Enter key (or [O] key). To cancel the Load job, press the [Esc] key (or [C] key).

■ When the selected LOAD source is VOICE BUFFER:
The message below is displayed and prompts you to select the Voice Buffer to be loaded, so perform selection by following Steps ① and ②.

```
Select VOICE BUFFER.

Cancel  OK
```

- ① Move the cursor to the Voice Buffer that you wish to load.
② To load the selected Voice, press the Enter key (or [O] key). To cancel the Load job, press the [Esc] key (or [C] key).

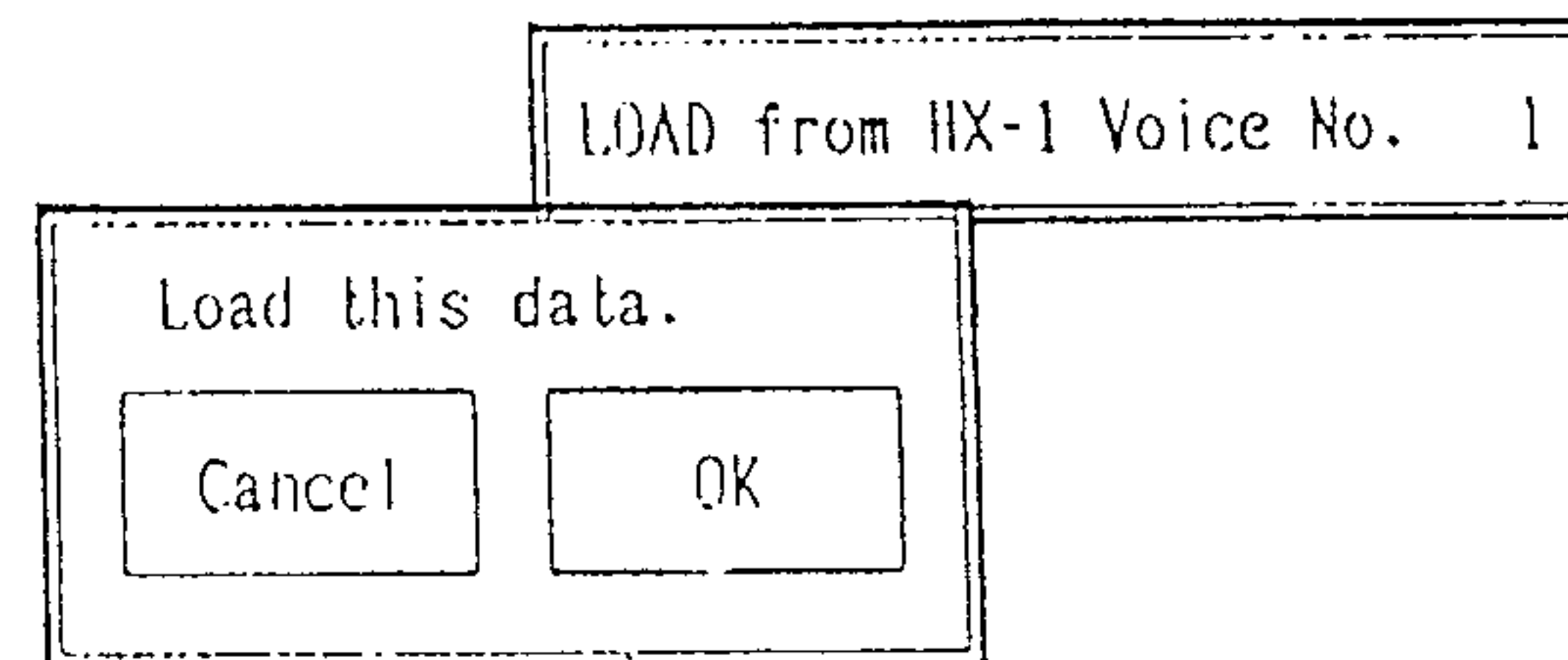
- When the selected LOAD source is HX or FVX-1:
The message below is displayed and prompts you to input the Voice No. to be loaded, so perform input by following Steps a) to c).

Voice No. to LOAD ?(1- 98) []

- a) Use the numeric keys [1] to [0] to key in the desired Voice No. As listed in the table below, the range of Voice Nos. which can be loaded varies with the target model and Voice Group you have specified. (For details on the correspondence between the Voice Nos. and Preset Voices, refer to "List of HX Voices" and "List of FVX-1 Preset Voices."

Model	Voice Group Name	Voice No. Range
HX-1	UPPER ORCHESTRAL	1-98
HX-3	LOWER ORCHESTRAL	(1-90 : Preset Voices)
HX-5	U/L PERCUSSIVE	(91-98: USER 1-8)
	U/L LEAD PEDALS BASS	1-60 (1-54 : Preset Voices) (55-60: USER 1-6)
FVX-1	TONE GROUP 1-4	1-256 (Preset/User)

- b) Press the Enter ↵ key (or [O] key).
The message below is displayed to confirm whether you wish to load the selected Voice No.



- c) To load that Voice No., press the Enter key (or [O] key). To cancel the Load job, press the [Esc] key (or [C] key).

NOTE: Before you can load the Voice data of FVX-1, you must first choose either Voice Bank A or B. When Voice Bank A is selected, Voice Nos. 1-248 correspond to Preset Voice Nos. 1-248; when Voice Bank B is selected, they correspond to User Voice Nos. 1-248. Note that Voice Nos. 249-256 correspond to User Voice Nos. 1-8 which are common to Voice Banks A and B.

III-4 Switching Modes

Outline

- After loading the Voice data that you wish to edit, you can perform editing of the Voice Parameters and other data by switching to another mode.
- After switching to another mode, if you wish to again switch to another mode, first return to DIRECTORY mode then select the mode that you wish to enter.

Procedure

- ① Press a Function Key from [F1] to [F5].
While looking at the Function Key display to check the mode that is selected by each Function Key, press a key from [F1] to [F5]. The program will shift from DIRECTORY mode to the mode corresponding to the pressed Function Key.

Key	Mode	Main Jobs in Each Mode
F1	EDIT 1	Editing of Voice data for individual Operators.
F2	EDIT 2	Editing of Voice data for individual parameters.
F3	ALGORITHM EDIT	Editing of algorithms.
F4	FILTER	Display of Filter data.
F5	UTILITY	Disk formatting and Voice data conversion.

- ② In the mode you have now entered, perform Voice editing or other operations.

- ③ After you are finished working in the current mode, press [F10].
After switching from DIRECTORY to another mode, the [F10] key corresponds to [DIR]. If you now wish to switch to another mode or execute a job in DIRECTORY mode, press [F10] to return to DIRECTORY mode.

