

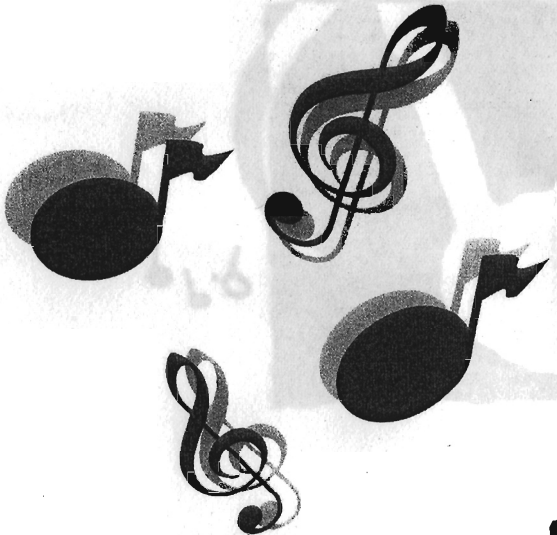
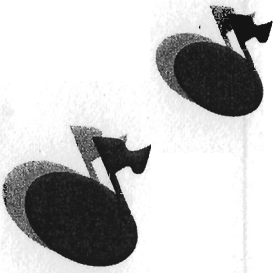
# FD-1

## USER'S GUIDE



P  
FD1-E-1

**CASIO®**



# Welcome...

To the happy family of satisfied CASIO electronic musical device owners! To get the most out of the many features and functions of the device, be sure to carefully read this manual and keep it on hand for future reference.

**GUIDELINES LAID DOWN BY FCC RULES FOR USE OF THE UNIT IN THE U.S.A. (not applicable to other areas).**

## NOTICE

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

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

## FCC WARNING

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



CASIO ELECTRONICS CO., LTD.  
Unit 6, 1000  
North Circular Road  
London NW2 7JD, U.K.

This mark is valid in the EU countries only.  
Please keep all information for future reference.

# Main Features

## Access to a virtually unlimited selection of tunes.

- Simply connect a CASIO Key Lighting Keyboard or other CASIO General MIDI keyboard for instant playback of Standard MIDI Files (SMF). This provides a virtually unlimited selection of tunes from which to choose.

## Two-step Lesson provides step-by-step practice.

- Easy Lesson  
Accompaniment waits until you play the correct melody note, so you can advance at your own pace.
- Normal Lesson  
Accompaniment plays normally, without waiting.

## LCD shows fingerings for chords and notes.

- The keys you should press for chords and notes are shown on the display of the FD-1 as a tune plays. When the FD-1 is connected to a Key Lighting Keyboard, the keyboards also indicates notes by lighting its keys.

### ! NOTES !

Terms Used in this User's Guide:

The FD-1 Floppy Disk Player can be used with a CASIO Key Lighting Keyboard, a CASIO General MIDI Keyboard, or with a CASIO Digital Piano. Note the following points concerning the terms used in this User's Guide.

- All mentions of *keyboard* in this User's Guide refer to a CASIO Key Lighting Keyboard, CASIO General MIDI Keyboard, or CASIO Digital Piano.
- All references to *Key Lighting* or *key flash* capabilities in this User's Guide do not apply when using the FD-1 with a General MIDI keyboard or a digital piano.

# Safety Precautions

## Symbols

Various symbols are used in this user's guide and on the product itself to ensure that the product is used safely and correctly, and to prevent injury to the user and other persons as well as damage to property. Those symbols along with their meanings are shown below.

### WARNING


This indication stipulates matters that have the risk of causing death or serious injury if the product is operated incorrectly while ignoring this indication.

### CAUTION


This indication stipulates matters that have the risk of causing injury as well as matters for which there is the likelihood of occurrence of physical damage only if the product is operated incorrectly while ignoring this indication.

## Symbol Examples




This triangle symbol () means that the user should be careful. (The example at left indicates electrical shock caution.)



This circle with a line through it () means that the indicated action must not be performed. Indications within or nearby this symbol are specifically prohibited. (The example at left indicates that disassembly is prohibited.)



The black dot () means that the indicated action must be performed. Indications within this symbol are actions that are specifically instructed to be performed. (The example at left indicates that the power plug must be unplugged from the electrical socket.)

## WARNING

Please use caution regarding the handling of the AC adaptor.

- Do not use a voltage other than the indicated power supply voltage. Use of a voltage other than that indicated may cause fire or electrical shock.
- If the power cord should become damaged (exposed wires, disconnection, etc.), purchase a new AC adaptor. Use of a damaged power cord may cause fire or electrical shock.
- Do not cut or damage the power cord. Also do not place heavy objects on top of it or subject it to excessive heat. Damage to the power cord may cause fire or electrical shock.
- Do not attempt to shape the power cord or subject it to excessive bending, twisting or pulling. This may cause fire or electrical shock.
- Please use the adaptor specified for this device. Use of another adaptor may cause fire, electrical shock, or malfunction.



**Do not locate the device or its stand\* on a slanted or unstable surface.**

- Locating the device or its stand on a slanted or unstable surface can cause it to fall, creating the danger of personal injury.

**Do not place containers containing water or other liquids on the device.**

- Do not place the following objects on the device. Placing such objects on the device may cause fire or electrical shock if they spill and get inside the device.
  - Containers filled with water or other liquids (including vases, potted plants, cups, cosmetics and medicines)
  - Small metal objects (including hairpins, sewing needles and coins)
  - Flammable objects



In the event a foreign object should happen to get inside the device, please take the following actions:

1. Turn power off.

2. Unplug the AC adaptor from the wall outlet.



3. Consult with the dealer where you purchased the device or with an authorized CASIO service provider.

#### Do not disassemble or modify the device.

- Never attempt to take apart or modify the device, its accessories, or separately sold options. Doing so may cause fire, electrical shock or malfunction. Consult your dealer concerning all inspection, adjustment or repair of internal components.



#### Do not use if there is an abnormality or malfunction.

- Do not use the device if there appear to be abnormalities such as the presence of smoke or abnormal odor. Also do not use the device if there appear to be malfunctions such as the power not coming on or sound not being produced. Use under such conditions may cause fire or electrical shock. In such cases, take the following actions immediately. Never attempt to repair the device yourself.



1. Turn power off.
2. Unplug the AC adaptor from the wall outlet.
3. Consult with the dealer where you purchased the device or with an authorized CASIO service provider.



#### When the device has been dropped:

- In the case the device has been dropped or damaged, take the following actions. Continued use may cause fire or electrical shock.



1. Turn power off.
2. Unplug the AC adaptor from the wall outlet.
3. Consult with the dealer where you purchased the device or with an authorized CASIO service provider.



#### Be careful of the bags around children.

- Never allow anyone to place the plastic bags of the device, its accessories, and its separately sold options over their heads. Doing so may cause suffocation. Particular caution is required in homes with small children.



## CAUTION

#### AC Adaptor

- Do not locate the power cord in close proximity to heaters or other heating appliances. This may cause the cord to melt leading to possible fire or electrical shock.
- When unplugging the AC adaptor from an electrical outlet, always make sure to pull on the adaptor itself and not the cord. Pulling excessively on the cord may cause it to be damaged or break leading to possible fire or electrical shock.
- Do not touch the AC adaptor with wet hands when it is plugged in. This may cause electrical shock.
- When not using the device for an extended period such as when traveling, always make sure to unplug the AC adaptor from the electrical outlet for safety reasons.
- After use turn off the power switch of the device and unplug the AC adaptor from the electrical outlet.
- At least once a year, unplug the AC adaptor from the power outlet and clean the area around the prongs of the plug. Dust build up around the prongs can create the danger of fire.



#### Transport

- When transporting the device, always make sure to unplug the AC adaptor from the electrical outlet and confirm that all other external connections have been disconnected. Only then should the device be transported. If the above is not done, the cord may be damaged leading to possible fire or electrical shock.



#### Care

- Whenever caring, make sure to first unplug the AC adaptor from the electrical outlet.



#### Location

- Never locate the device in areas subject to high humidity or heavy accumulation of dust. Doing so may cause fire or electrical shock.
- Never locate the device in areas subject to grease splatters or steam, such as in a kitchen or near a humidifier. Doing so may cause fire or electrical shock.



#### Do not place device on lacquered furniture.

- The device's silicone rubber feet may eventually blacken or scar lacquered surfaces. Use felt cloth pads to insulate the feet or preferably use a CASIO optional stand designed for your device.

#### Do not place heavy objects on the device.

- Do not place heavy objects on the device. This may cause the device to tip over or break resulting in injury.

#### Volume

- Very high volume levels can damage hearing. Avoid listening to music at very high volume settings for long periods. Consult with a physician immediately if you experience impaired hearing or ringing in the ears.

#### Liquid Crystal Display (LCD) Precautions

- Avoid subjecting the device's LCD to strong impact, which can crack or break the LCD's glass creating the danger of personal injury.
- Should the LCD glass ever crack or break, do not allow the liquid inside the LCD to come into contact with your skin, which can cause inflammation and reddening.
  - \* Should the LCD liquid get into your mouth, immediately wash out your mouth with water and then consult a physician.
  - \* Should the LCD liquid get in your eyes or on your skin, immediately flush with water for at least 15 minutes and then consult a physician.

#### Do not step on the device or stand.\*

- Do not step on the device or its optional stand.

#### Optional Stand\*

- Carefully assemble the stand following the assembly instructions that come with it. Securely tighten all bolts, nuts, and fasteners, and make sure that you mount the device correctly onto the stand. Incorrectly or insufficiently tightening screws, or incorrectly mounting the device onto the stand can cause the stand to tip over or the device to fall off the stand, possibly leading to injury.

\* The stand is available as an option.



## Care of your device

### ***Avoid heat, humidity or direct sunlight.***

Do not overexpose the device to direct sunlight, or place it near an air conditioner, or in any extremely hot place.

### ***Do not use near a TV or radio.***

This device can cause video or audio interference with TV and radio reception. If this happens, move the device away from the TV or radio.

### ***Do not use lacquer, thinner or similar chemicals for cleaning.***

Clean the device with a soft cloth dampened in a weak solution of water and a neutral detergent. Soak the cloth in the solution and squeeze until it is almost dry.

### ***Avoid use in areas subjected to temperature extremes.***

Extremely high or low temperature can cause figures on the LCD screen to become dim and difficult to read. This condition should correct itself when the device is brought back to normal temperature.

### **■ NOTE ■**

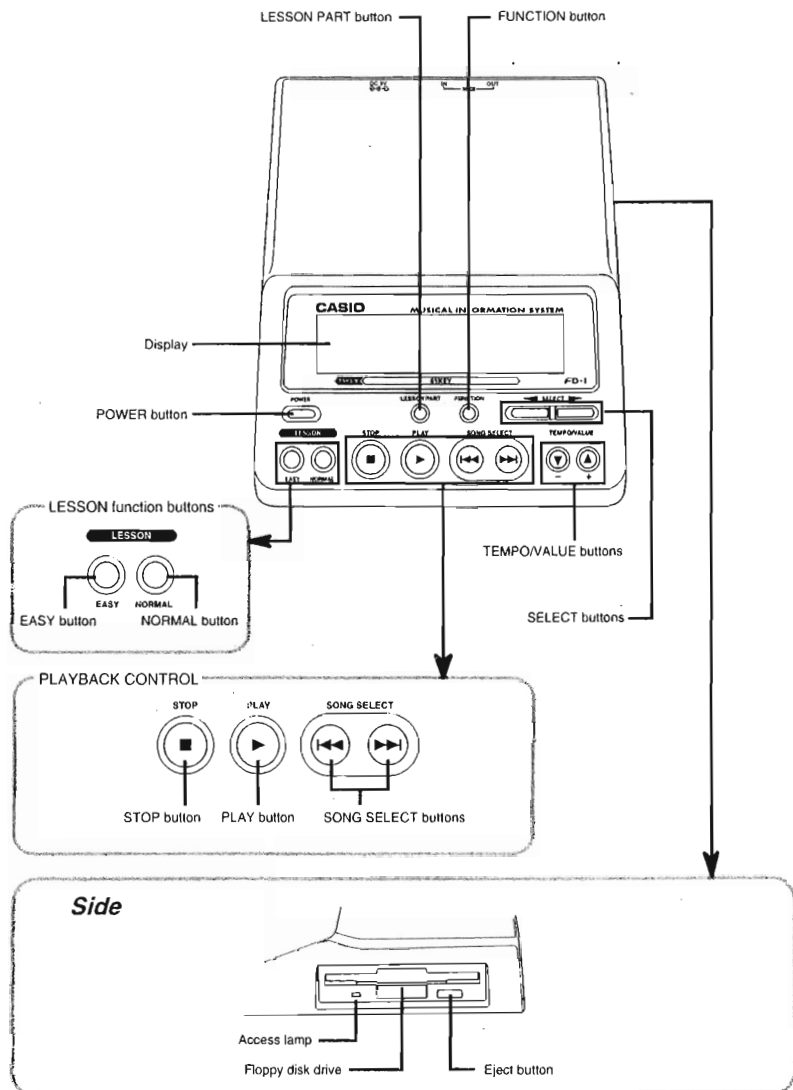
You may notice lines in the finish of the case of this device. These lines are a result of the molding process used to shape the plastic of the case. They are not cracks or breaks in the plastic, and are no cause for concern.

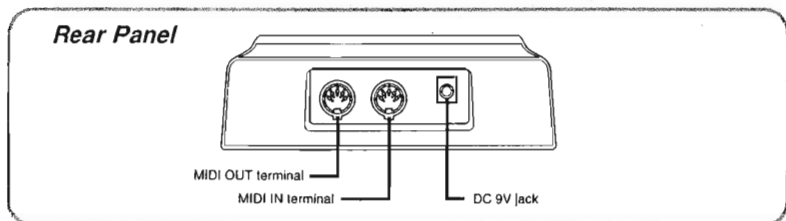
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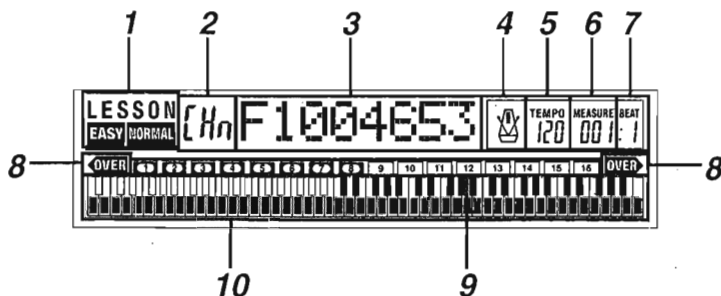
# General Guide

Button and other names are indicated in the text of this manual using bold type.





## Using the Display



1. Appears when the Lesson Function is being used and in the Playback Mode.
2. Shows function settings.
3. Shows tune names, file names, function setting menus, error messages, etc.
4. Metronome graphic to indicate the beat.
5. Shows the tempo (beats per minute) during playback.
6. Shows the measure count during playback.
7. Shows the beat count during playback.
8. These indicators appear during playback of a lesson part when a note outside the keyboard range of the connected keyboard is played.
  - OVER : Appears when a note below the range of the connected keyboard is played.
  - OVER : Appears when a note above the range of the connected keyboard is played.
9. Indicators above these numbers indicate the on/off status of each channel, and whether or not note data is being played over a channel.
10. Displays notes during playback. With the Lesson Function, this part of the display shows the keys you should press to play along.

### NOTE

Display examples shown in this User's Guide are intended for illustrative purposes only. The actual text and values that appear on the display may differ from the examples shown in this User's Guide.

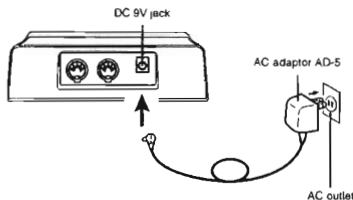
# Power Supply

This device can be powered by current from a standard household wall outlet (using the specified AC adaptor). Always make sure you turn the device off whenever you are not using it.

## Using the AC Adaptor

Make sure that you use only the AC adaptor specified for this device.

### Specified AC Adaptor: AD-5



Also note the following important warnings and precautions when using the AC adaptor.

### WARNING!

- Take care to avoid any damage to or breakage of the power cord. Never place any heavy objects on the power cord or expose it to direct heat. Doing so creates the danger of power cord damage, fire, and electrical shock.
- Use only the specified AC adaptor. Use of another type of adaptor creates the danger of fire and electrical shock.

### CAUTION!

- For safety sake, be sure to unplug the AC adaptor from the wall outlet whenever leaving the device unattended for a long time (such as when leaving on a trip).
- Always turn off the device and unplug the AC adaptor from the wall outlet when you are not using the device.

### IMPORTANT!

- Make sure that the device is turned off before connecting or disconnecting the AC adaptor.
- Using the AC adaptor for a long time can cause it to become warm to the touch. This is normal and does not indicate malfunction.

## Power Off Reset

The following settings are retained even when power is turned off as long as the AC adaptor is supplying power to the device.

Play mode, key flash, navigate channel, key count, display contrast

All other settings are reset to their initial defaults whenever power is turned off and then back on again.

# Using the Floppy Disk Drive

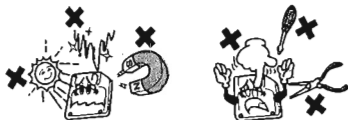
## About Floppy Diskettes

This section explains precautions you need to follow when using floppy diskettes. It also contains other basic information about diskettes.

## Floppy Diskette Handling Precautions

### IMPORTANT!

- Keep diskettes away from televisions, stereos, and other sources of magnetism. Magnetism can affect diskette contents.
- Keep diskettes out of direct sunlight, and areas subjected to high humidity and temperature extremes.
- Never try to take a diskette apart.
- Never open the shutter of a diskette or touch the inside with your fingers.
- Never bend a diskette or apply strong pressure to it.
- Make you affix diskette labels only within the areas provided, and never affix a new label on top of an old one.



- Do not eject the diskette while the access lamp is lit or while playback is in progress. Also, never turn off power while a diskette is loaded inside the FD-1. Doing so can corrupt data on the diskette and cause malfunction of the FD-1.
- Never insert any other object besides the specified type of diskette into the FD-1. Doing so can cause malfunction of the FD-1.
- The FD-1 uses a magnetic head. A dirty head can make it impossible to read data from a diskette or even corrupt diskette contents. Use a commercially available cleaning diskette to periodically clean the magnetic head.

\* CASIO COMPUTER CO., LTD. assumes no responsibility for the loss of any data stored on a floppy diskette.

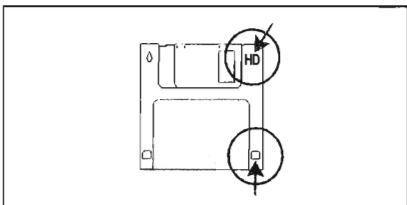
## Diskette Types

The FD-1 supports use of both 3.5" 2HD (1.44MB formatted) and 2DD (720KB formatted) diskettes. Use of other disk sizes and capacities is not supported.

## Diskette Type Indicators

2HD ... A 2HD diskette is marked with the letters "HD" in the upper right corner of the front side. Also, there is a square hole in the lower right corner.

2DD ... This type of diskette does not have a hole in the lower right corner.

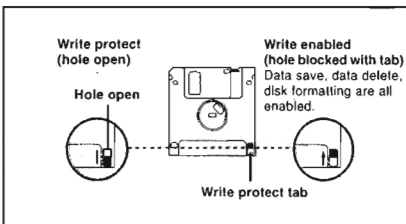


## Write Protection

You can write protect a diskette so data on it cannot be deleted and no new data can be stored on the diskette.

### IMPORTANT!

- Though you can read data from a diskette that is write protected (write protect hole open), you cannot store data on it, delete its existing data, or format the diskette. Write protecting a diskette is a good way to protect important data against accidental deletion.



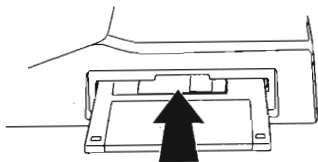
- When the write protect hole is open as shown in the illustration, you can read the contents of the diskette, but you cannot write data to or delete data from the diskette. After saving important data to a diskette, be sure to open its write protect hole to protect the data against accidental changes or deletion.
- The diskette that comes with the FD-1 contains sample data and so it is write protected.

## Using a Floppy Diskette

If you are unfamiliar with floppy disk drive operations, try performing the following procedures with the diskette that comes with the FD-1.

### To load a diskette

1. Insert the diskette, label side up and shutter edge forward, into the slot.



2. Slide the diskette into the slot as far as it will go, until you hear it click into place.

### To eject a floppy diskette

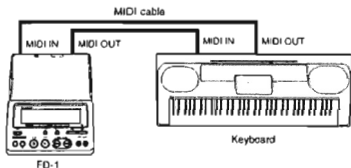
#### IMPORTANT!

Make sure that there is nothing playing back and that the access lamp is not lit before ejecting a diskette. Ejecting a diskette while the access lamp is lit or flashing can corrupt the data on the diskette.

1. Press the **Eject button**.
  - This causes the diskette to be ejected part way.
2. Remove the diskette by hand.

# Connecting to a Keyboard and Setting Up the FD-1

Be sure to turn off both the keyboard and the FD-1 before making connections. Connect the two units as shown below using the two MIDI cables that come with the FD-1.



The settings you need to make on the FD-1 depend on the keyboard you are connecting. Check your keyboard and find out which of the following type it is.

- CASIO Key Lighting Keyboard
- CASIO General MIDI keyboard
- CASIO Digital Piano

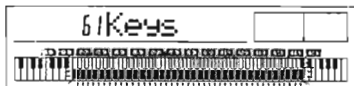
## Connecting to a Key Lighting Keyboard (CTK-620L, LK-80, etc.)

### Setting Up the FD-1

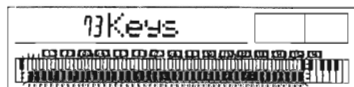
In addition to the following settings, also see the settings under "Making Function Settings" on page E-19.

#### To specify the key count

1. Press the **FUNCTION** button.
2. Use the **SELECT** buttons to display the key count setting screen.



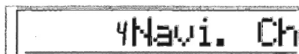
3. Use the **VALUE** buttons to specify the key count.  
Example: Specify "73" for the key count when connecting to the LK-80.



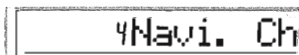
#### To match navigate channels

- Matching navigate channels with a Key Lighting Keyboard makes it possible to use the keyboard's key lighting capabilities to play along with the data on the diskette loaded in the disk drive.

1. Press the **FUNCTION** button.
2. Use the **SELECT** buttons to display the navigate channel setting screen.



3. Use the **VALUE** buttons to select channel 4.



### Keyboard Settings

The following shows settings you need to make on the keyboard to which you are connecting. See the documentation that comes with the keyboard for full details.

- Set the navigate channel to 4. This is the initial default setting for the CTK-620L and LK-80.
- Set the MODE switch to "Normal".
- Turn off layer and split.
- Display the tone setting screen.

#### NOTES

- If the melody volume is too low when you are using the Lesson Function, change the touch curve select setting of the keyboard to 1. See the documentation that comes with the keyboard for changing the MIDI touch curve select setting.
- Turn the keyboard's sound range shift off whenever practicing a part that includes very high or very low octave tones, such as bass or piccolo. See the documentation that comes with the keyboard for changing the MIDI sound range shift setting.

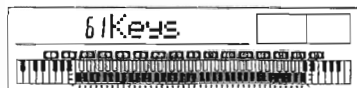
## Connecting to a General MIDI Keyboard (CTK-631, WK-1200, WK-1300, etc.)

### Setting Up the FD-1

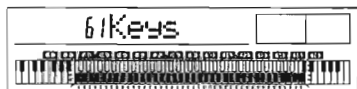
In addition to the following settings, also see the settings under "Making Function Settings" on page E-19.

#### To specify the key count

1. Press the **FUNCTION** button.
2. Use the **SELECT** buttons to display the key count setting screen.

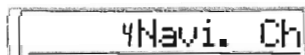


3. Use the **VALUE** buttons to specify the key count.  
*Example:* Specify "61" as the key count when connecting to the CTK-631.

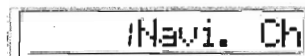


#### To match navigate channels

1. Press the **FUNCTION** button.
2. Use the **SELECT** buttons to display the navigate channel setting screen.



3. Use the **VALUE** buttons to select channel 1.



## Keyboard Settings

The following shows settings you need to make on the keyboard to which you are connecting. See the documentation that comes with the keyboard for full details.

- Set the MODE switch to "Normal".
- Turn off layer and split.
- Display the tone setting screen.
- Turn off Free Session.

#### NOTES

- Setting the mixer current channel of the connected keyboard to 1 makes it possible to monitor the lesson part on the keyboard's graphical keyboard and staff display.
- To stop the next note from sounding when using the lesson function, turn off the FD-1 key flash (page E-21).
- When playing a part that includes very high or very low octave tones, such as bass or piccolo, the note produced when you play the keyboard may sound in a different octave.

## Connecting to a Digital Piano (AP-21, AP-22S, AP-12S, etc.)

### IMPORTANT!

The FD-1 can be used to play back digital piano data only when it is connected to a digital piano.

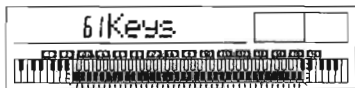
### Setting Up the FD-1

In addition to the following settings, also see the settings under "Making Function Settings" on page E-19.

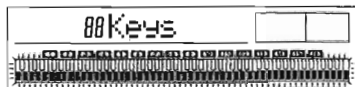
#### To specify the key count

- Use the following procedure to specify the number of keys on your digital piano.

1. Press the **FUNCTION** button.
2. Use the **SELECT** buttons to display the key count setting screen.

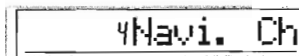


3. Use the **VALUE** buttons to specify the key count.  
*Example: Specify "88" as the key count when connecting to the AP-22S.*

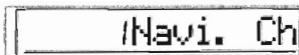


#### To match navigate channels

1. Press the **FUNCTION** button.
2. Use the **SELECT** buttons to display the navigate channel setting screen.



3. Use the **VALUE** buttons to select channel 1.



## Keyboard Settings

The following shows settings you need to make on the keyboard to which you are connecting. See the documentation that comes with the keyboard for full details.

- Set the basic channel to 1.
- Turn on the multi-channel mode.
- Turn off layer and split.

#### NOTES

- To stop the next note from sounding when using the lesson function, turn off FD-1 key flash (page E-21).
- If required, change the program change numbers of the keyboard to General MIDI System compliant numbers.

## Accessories and Options

Use only accessories and options specifically recommended for use with the FD-1. Use of other items creates the risk of fire and electric shock.

# Basic Operation

This section describes the basic operational procedures of the FD-1.

## Playing Back a Standard MIDI File (SMF)

SMF (Standard MIDI format) is a standard file format that makes MIDI data compatible with different sequencers and musical. There are actually four different SMF formats, identified by the numbers 0, 1, 2, and 3. The FD-1 support SMF Format 0, which is the one most compatible with the greatest number of sequencers and available software. Most commercially available MIDI file data is SMF Format 0. SMF compatibility also means you can play computer-created data without converting it.

### To play back an SMF

1. Press the FD-1 **POWER** button to turn on power.



2. Load the diskette that contains the SMF into the FD-1.

3. Press one of the **SONG SELECT** buttons.

- The currently selected file name appears on the display.



4. Press the **PLAY** button to start playback.



Notes are indicated on the graphic keyboard as they play. See page E-18 for details.

5. To stop playback, press the **STOP** button.

## NOTES

- The above operation plays all of the Standard MIDI Files on the diskette. See "Playback Mode" on page E-20 for information about how to play a specific file.
- The top of the FD-1 becomes warm during operation. This is normal and does not indicate malfunction.
- Some commercially available SMF data may not playback properly on the FD-1.

## Playing a Specific File

1. Use the **SONG SELECT** buttons to display the name of the file you want to play.



2. Press the **PLAY** button to start playback.

3. To stop playback, press the **STOP** button.

## Adjusting the Playback Tempo

Use the **TEMPO/VALUE** buttons to adjust the tempo.



## NOTES

- Pressing both of the TEMPO/VALUE buttons at the same time returns the tempo value to its initial default for the file that is playing.
- Whenever a new file starts to play, the tempo setting automatically changes to the initial default value for the new file.
- You can also change the tempo setting when playing back a file with the Lesson Function.

# Using the Lesson Function

The Lesson Function provides two different lesson types.

## Easy Lesson

Use Easy Lesson when you want to concentrate on playing the correct notes. Select a lesson part and then press the keys that are indicated on the FD-1 display. The other parts being played back wait until you press the correct key, which means you can practice playing at your own pace.

If you are connected to a keyboard with a Key Lighting system, the keyboard keys also light to show you the notes to play.

## Normal Lesson

Use Normal Lesson when you want to practice playing back at normal speed. The display of the FD-1 still shows you the keys to press, but the other parts play back normally, without waiting for you to play the correct note.

If you are connected to a keyboard with a Key Lighting system, the keyboard keys also light to show you the notes to play.

## Playback Note Indicators

The keyboard keys you should press when using the Lesson Function are indicated on the display of the FD-1. Some keyboards also indicate the notes you should play.

### • Key Lighting Keyboard

Keyboard keys light up to show you the notes to play. The key that is lit is the one that is currently being played, while the key that is flashing is the one you should press next. See the section titled "Key Lighting System Operation and Display Contents During 3-step Lesson Play" in the User's Guide that comes with the keyboard for more information.

### • General MIDI Keyboard

Notes are indicated on a graphical keyboard shown on the display.

### • Digital Piano

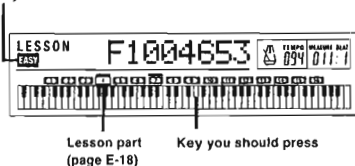
A digital piano cannot indicate notes you should play, but you can see the notes on the graphic keyboard on the display of the FD-1.

## Using Easy Lesson

Easy Lesson accompaniment waits until you play the correct note, so take your time and play at your own pace.

1. Select the tune you want to practice.
2. Press the **EASY** button.
  - If the tune has an intro part, accompaniment stands by at the first note following the accompaniment.

### Easy Lesson Indicator



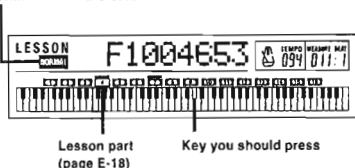
3. Play the notes indicated by the keyboard and on the display of the FD-1.
4. To stop, press the **STOP** button.

## Using Normal Lesson

Normal Lesson plays back at normal speed. It shows you the notes you have to play, but it does not wait for you to play the correct note.

1. Select the tune you want to practice.
2. Press the **NORMAL** button.

### Normal Lesson Indicator



3. Play the notes indicated by the keyboard and on the display of the FD-1.
4. To stop, press the **STOP** button.

# Selecting the Lesson Part

Use the following procedure to select the lesson part you want to practice. You can select any one of the channels over which part data is being played.

An indicator appears above number of each channel over each part that contains data.

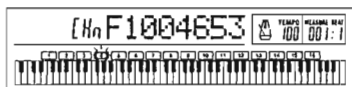


## NOTE

Selecting a part and pressing the PLAY button plays back that part only. This means you can listen to how a part should be played before trying to play it yourself.

## To select a lesson part

1. Press the LESSON PART button.
  - The currently selected part is the one whose channel number is flashing on the display.



2. Use the SELECT buttons to select a lesson part (CH1 to CH16).

Example: CH2 selected



3. Select either Easy Lesson or Normal Lesson, and then play along with the remaining accompaniment parts.

- Press the EASY button to select Easy Lesson.
- Press the NORMAL button to select Normal Lesson.
- The notes for the part you selected as the lesson part are indicated by the keyboard and on the FD-1 display.

## NOTES

- You cannot select CH10 (drum part) as the guide part.
- Pressing the PLAY button after step 2 plays back the lesson part only.
- Each press of the SELECT buttons toggles selection of the lesson part on and off.
- You can also perform the above procedure while playback of a tune is in progress.
- Pressing the LESSON PART button after changing the lesson part while playback is in progress restarts playback from the beginning of the tune.
- To return to normal playback, press the LESSON PART button again.

# Making Function Settings

This section describes how to make settings for the various functions available on the FD-1.

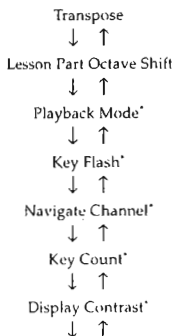
## IMPORTANT!

FUNCTION button operation is disabled while a tune is playing. Be sure to stop playback before trying to perform the operations in this section.

### Function Menu

The first item of the function menu appears on the display of the FD-1 when you press the FUNCTION button. Next, each press of the SELECT button cycles through function menu items in the sequence shown below.

\* The settings of items marked with an asterisk above and in the following sections are retained even when FD-1 power is turned off.



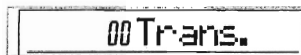
### NOTE

The Transpose (Trans.) item appears first whenever you press the FUNCTION button.

### Transpose

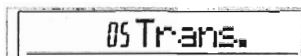
Use the following procedure to transpose the key of the playback in semitone steps.

1. Press the FUNCTION button to display the transpose screen.



2. Use the VALUE buttons to change the transpose setting.

Example: Key transposed 5 semitones



### NOTES

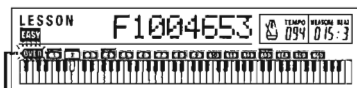
- The key of CH10 (drum part) is not changed.
- The transpose range is -12 (one octave lower) to +12 (one octave higher).
- Turning off FD-1 power resets the transpose setting to an initial default value of 00.

## Lesson Part Octave Shift

Use the following procedure to shift the octave of the lesson part one octave up or down. This makes it possible to shift a part that is outside the keyboard range of a connected keyboard to a location where it is inside the keyboard range. Notes outside the range of the connected keyboard are indicated when the **OVER** or **UNDER** indicator appears on the display of the FD-1.

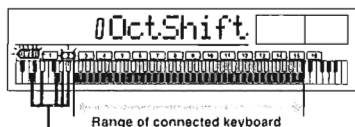
### Finding out which Notes are Outside the Keyboard Range

*Example:* When the **OVER** indicator flashes on the FD-1 display during playback of a selected lesson part.



Flashing

1. Press the **STOP** button to stop playback.
2. Press **FUNCTION** button to display the function menu, and then use **SELECT** to display the octave shift screen.
  - This displays an image that shows the keyboard range of the connected keyboard and the notes that are outside the range.



Out of range notes (flashing)

### Changing the Octave Shift Setting

1. Select the lesson part (channel) you want to shift (page E-18).
2. Press **FUNCTION** button to display the transpose screen.

3. Use **SELECT** to display the octave shift screen.

*Example:* When CH2 is selected



Currently selected part (flashing)

4. Use the **VALUE** buttons to change the octave shift setting.

*Example:* Octave shift setting change to 2

5. Play back the tune.

*Example:* Playback after pressing the **EASY** button to select Easy Lesson

- The first note of the CH2 part stands by at a position that is two octaves higher than the original note.



Indicator disappears  
Two octaves above original note

#### NOTE

Turning off FD-1 power resets the octave shift setting to an initial default value of 0.

### Playback Mode\*

Use the following procedure to specify whether you want to play all of the files on a diskette in a repeating loop, or only a single file.

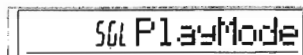
1. Press **FUNCTION** button to display the transpose screen.
2. Use **SELECT** to display the play mode screen.



CHn ..... Repeat play of all files  
SGL ..... Play of a single file

3. Use the **VALUE** buttons to select the play mode setting you want.

*Example:* Play of a single file



#### NOTES

- The initial reset default for this setting is repeat play of all files.
- Single file play (SGL) only can be used with the Lesson Function.

### Key Flash \*

Use the following procedure to turn the key flash feature of a Key Lighting Keyboard on and off. When key flash is turned on, the key you should press next flashes on the keyboard.

1. Press **FUNCTION** button to display the transpose screen.
2. Use **SELECT** to display the key flash screen.



3. Use the **VALUE** buttons to select on or off for the key flash setting.

*Example:* Key flash off



#### NOTES

- The initial reset default for this setting is key flash on.
- With certain tones, key flash can cause the next note to sound at low volume in time with the key flashing. Turning off key flash when using a General MIDI keyboard or digital piano stops the next note from sounding.

### Navigate Channel \*

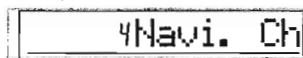
Setting the navigate channel for the keyboard you are connecting ensures that data is exchanged correctly. In the case of a Key Lighting keyboard, for example, setting the correct navigation channel makes it possible to use the Key Lighting system of the keyboard during playback from the FD-1.

#### Navigate Channel Settings

Key Lighting keyboard: Channel 4

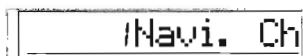
General MIDI keyboard, digital piano: Channel 1

1. Press **FUNCTION** button to display the transpose screen.
2. Use **SELECT** to display the navigate channel screen.



3. Use the **VALUE** buttons to select channel you want.

*Example:* Navigate Channel 1



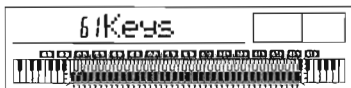
#### NOTE

The initial reset default for this setting is Channel 4.

### Key Count \*

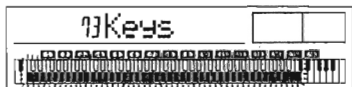
Use this setting to specify the number of keys on the keyboard you are connecting.

1. Press **FUNCTION** button to display the transpose screen.
2. Use **SELECT** to display the key count screen.



- Use the **VALUE** buttons to specify the number of keyboard keys.

*Example:* 73 keys (LK-80)



#### ■ NOTE ■

The initial reset default for this setting is 61.

## Display Contrast\*

You can adjust the display contrast to a value within the range of 00 to 99.

- Press **FUNCTION** button to display the transpose screen.
- Use **SELECT** to display the display contrast screen.



- Use the **VALUE** buttons to adjust display contrast.
  - Each press of **[+]** increases contrast by one, making images on the display darker.
  - Each press of **[-]** decreases contrast by one, making images on the display lighter.



#### ■ NOTES ■

- The setting range is 00 to 99.
- The initial reset default for this setting is 50.

# Disk Error Messages

Message	Cause	Required Action
<b>Err Format</b>	<ol style="list-style-type: none"><li>1. The format of the disk is not compatible with the FD-1.</li><li>2. Disk contents are corrupted.</li></ol>	<ol style="list-style-type: none"><li>1. Use a disk with the proper format (page E-16).</li><li>2. Use another diskette.</li></ol>
<b>Err Disk RD</b>	Disk data cannot be read.	Use another diskette.
<b>Err NotSMF0</b>	Attempt to read a file that is not a Format 0 Standard MIDI File (SMF).	Use only Format 0 SMFs (page E-16).
<b>No Disk</b>	<ol style="list-style-type: none"><li>1. The diskette is not loaded in the FD-1 correctly.</li><li>2. There is no diskette loaded in the FD-1.</li></ol>	<ol style="list-style-type: none"><li>1. Press the eject button to eject the diskette, and then reinsert it (page E-12).</li><li>2. Load a diskette into the FD-1.</li></ol>
<b>Err No File</b>	The FD-1 cannot find any files it can read.	Use only format 0 SMFs (page E-16).
<b>Err WrongDat</b>	There is something wrong with the data.	Use another file or diskette.

# Troubleshooting

Check the following points whenever you experience problems with FD-1 operation. Also see the troubleshooting information in the documentation that comes with the connected keyboard.

Problem	Cause	Recommended Action	Reference
Cannot playback.	<ol style="list-style-type: none"> <li>1. The AC adaptor is not connected correctly.</li> <li>2. Power is not turned on.</li> <li>3. The volume level of the connected keyboard is set too low.</li> <li>4. There is no diskette loaded or the loaded diskette does not have any data on it.</li> <li>5. The MIDI cables are not connected correctly.</li> </ol>	<ol style="list-style-type: none"> <li>1. Make sure the AC adaptor is connected correctly.</li> <li>2. Press the POWER button to turn on power.</li> <li>3. Turn up the volume on the connected keyboard.</li> <li>4. Load a diskette that has at least one SMF on it.</li> <li>5. Make sure the MIDI cables are connected correctly.</li> </ol>	<p>Page E-10</p> <p>Page E-16</p> <p>See the documentation that comes with the keyboard.</p> <p>Page E-16</p> <p>Page E-13</p>
Keyboard keys remain lit.	Playback is standing by during Easy Lesson play.	<ol style="list-style-type: none"> <li>1. Press the lit keyboard key to play the note.</li> <li>2. Press the STOP button to cancel playback.</li> </ol>	<p>Page E-17</p> <p>Page E-17</p>
<b>OVER</b> <b>USED</b> flashes next to the on-screen keyboard during playback of a lesson part.	Notes outside the keyboard range of the connected keyboard are being played.	Use lesson part octave shift to shift the lesson part so it is within the keyboard range.	Page E-20
Lesson part does not play during playback of the lesson part only.	There is nothing recorded in the channel you selected as the lesson part.	Change to another channel.	Page E-18
Keys of a connected Key Lighting keyboard do not light.	Navigation channel is not set to 4.	Change the navigation channel setting to 4.	Page E-21

# Specifications

<b>Model:</b>	FD-1
<b>Drive Type:</b>	3.5-inch FDD
<b>Disk Formats:</b>	2DD (720KB MS-DOS format) 2HD (1.44MB MS-DOS format)
<b>Sequence Format:</b>	SMF Format 0
<b>Playback Modes:</b>	All file repeat, single file
<b>Playback Controllers:</b>	PLAY, STOP, SONG SELECT
<b>Lesson Function:</b>	Easy Lesson, Normal Lesson; single file repeat playback only
<b>Tempo:</b>	Variable (30 to 255)
<b>Displayed Channels:</b>	16
<b>Display Contents:</b>	Channel note indicator, Solo
<b>Function Settings</b>	
<b>Transpose:</b>	25 steps (-12 to +12 semitones)
<b>Lesson Part Octave Shift:</b>	5 steps (-2 to +2)
<b>Playback Mode:</b>	All file repeat, single file (Default: All file repeat)
<b>Key Flash:</b>	On, Off (Default: On)
<b>Navigate Channel:</b>	Channel 4, Channel 1 (Default: Channel 4)
<b>Key Count:</b>	88, 76, 73, 61, 49 (Default: 61)
<b>Contrast Level:</b>	100 steps (00 to 99 / Default: 50)
<b>Terminals</b>	
<b>MIDI Terminals:</b>	IN, OUT
<b>Power Jack:</b>	9V DC
<b>Power Supply</b>	
<b>AC Adaptor:</b>	AD-5
<b>Power Consumption:</b>	9V --- 6.5W
<b>Dimensions:</b>	16.9 x 20.0 x 5.2 cm ( $6\frac{11}{16} \times 7\frac{7}{8} \times 2\frac{1}{16}$ inch)
<b>Weight:</b>	Approximately 1.0 kg (2.2 lbs)

• Design and specifications are subject to change without notice.



Function ...	Transmitted	Recognized	Remarks
<b>Basic Channel</b> <b>Default Changed</b>	1-16 1-16	1-16 1-16	
<b>Mode</b> <b>Default Messages Altered</b>	X X *****	X X *****	
<b>Note Number:</b> <b>True voice</b>	0 - 127 *****	0-127 *****	
<b>Velocity</b> <b>Note ON</b> <b>Note OFF</b>	<input type="radio"/> 9nH v = 1-127 <input type="radio"/> 9nH v = 0, 8nH v = 0-127	<input type="radio"/> 9nH v = 1-127 <input checked="" type="radio"/> 9nH v = 0, 8nH v = XX	XX = no relation
<b>After Touch</b> <b>Key's Ch's</b>	<input type="radio"/> <input type="radio"/>	X X	
<b>Pitch Bender</b>	<input type="radio"/>	X	
<b>Control Change</b>  0 - 121	<input type="radio"/>	X	
<b>Program Change:</b> <b>True #</b>	<input type="radio"/> 0-127 *****	X X	
<b>System Exclusive</b>	<input type="radio"/>	X	
<b>System Common</b> : Song Pos : Song Sel : Tune	X X X	X X X	
<b>System Real Time</b> : Clock : Commands	X X	X X	
<b>Aux Messages</b> : Local ON/OFF : All notes OFF : Active Sense : Reset	X <input type="radio"/> X X	X X X X	
<b>Remarks</b>			



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MA9910-004001A  Printed in Japan  
FD1-E-1

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