

MK_MF-FE410_ENG-11P



DIGITAL MUSIC PLAYER OWNER'S MANUAL

***MF-FE411/G/B/P/W
MF-FE412/G/B/P/W
MF-FE415/G/B/P/W***



Read this manual carefully before operating your set.
Keep it for future reference.





Never attempt to disjoin or repair the product yourself.



Never use the product for other purposes than those described in this guide.



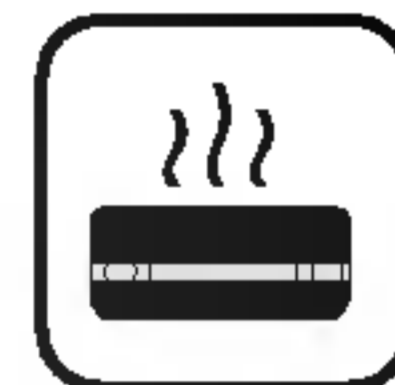
Note that malfunctions may occur if you use the product in places where static electricity occurs frequently.



Avoid to leave the product in hot or humid place.



Take special attention when touching the product box, owners manual and accessories to avoid cuts.



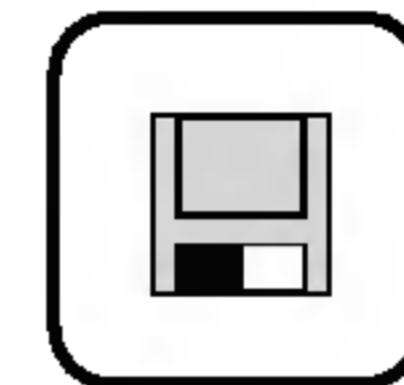
If the product emits an unusual odor or excessive heat, or you notice anything else that seems unusual, do not use the product and contact our Customer Service Center.



Pay attention to the USB cable direction when connecting the product to PC. The PC or the product may be damaged if you connect the USB cable in the wrong direction. Never use damaged or worn USB cable.



Do not use the product near water. Do not touch this product with wet hands.



Be sure to back up your data files. The files on the player may be deleted while using the product. We are not responsible for any damaged or lost files that are not saved on your PC. Customer Service Center does not back up your data while servicing.



Avoid to use headphone or earphone while driving a vehicle, motorcycle, riding a bicycle, getting exercise or working in dangerous areas. Not only is it dangerous, but also illegal in some areas.

This product is manufactured to comply with the radio interference requirements of EEC DIRECTIVE 89/336/EEC, 93/68/EEC and 73/23/EEC.

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Removable Storage Device

You can easily copy and paste file to the player using Windows Explorer.

Direct MP3 Recording

You can convert music from CD's, cassettes and radio into MP3 files without a PC.

FM Reception

Listening to an FM program is made easy with Auto Search and Frequency.

Upgrading Firmware

It can become the continuous improvement of the function and the various setting up this product.

MP3, WMA Playback

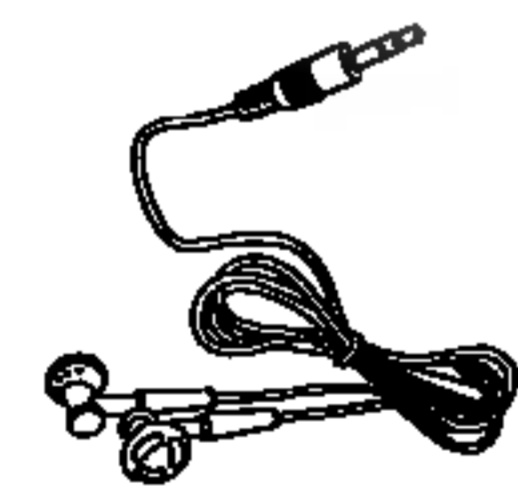
MP3 is MPEG1 Layer3 audio format.

MP3 is a well known, high quality digital audio format.

MP3 files can be compressed up to 12 times the original wav file size.

WMA (Windows Media Audio code) is the highest quality in terms of a sound and music. WMA provides all type of the best sounds from 8kHz to 48kHz.

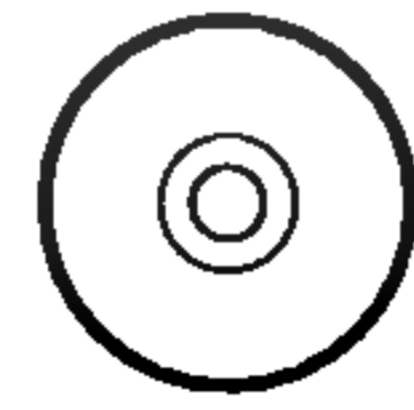
Accessories



Earphone



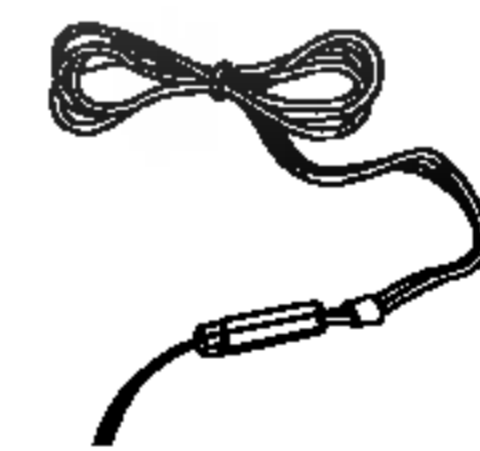
USB cable



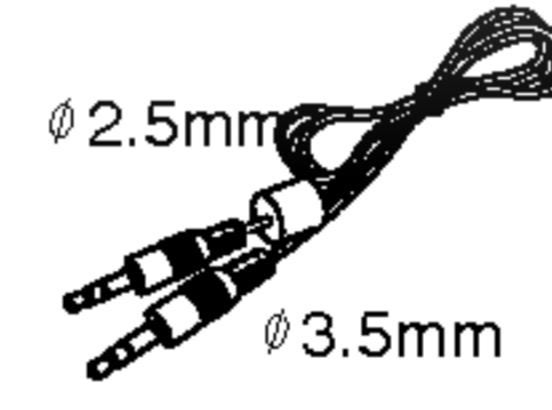
Installation CD



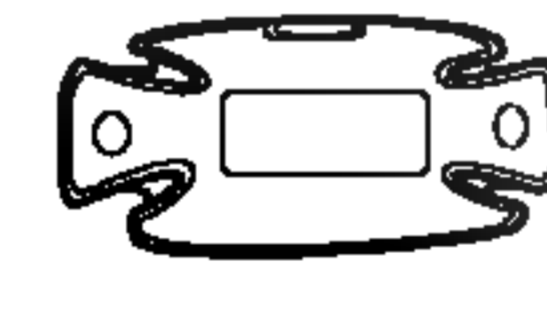
Manual



Necklace



Auxiliary Input/
Output Cable



Carrying case




Battery
(AAA size)

- If you plan not to use the main unit for a long time, remove the battery to avoid any damage caused by battery leakage and corrosion.
- Avoid listening to the main unit while driving or operating any motorized vehicle.
- Do not use the main unit in places which are extremely hot, cold, dusty or humid.
- Unlock the HOLD switch before operating.
- Do not drop it while using this product.

Battery Life

Alkaline battery (1EA)	more than 10 hours
------------------------	--------------------

※ Conditions

- MP3 128kbps, volume level 20 (EQ NORMAL).
 - The above contents are measured by using the battery provided with this product, and play time to use may vary depending on operation condition.
- ※ Charge the rechargeable battery or replace the battery with a new one in the following situations.
- ▶ The “” indicator blinks.
 - ▶ “Low Battery” appears about 1 second in LCD and then disappears.
 - ▶ The operation buttons do not work.

For preventing the electrostatic discharge during use, refer to below conditions.

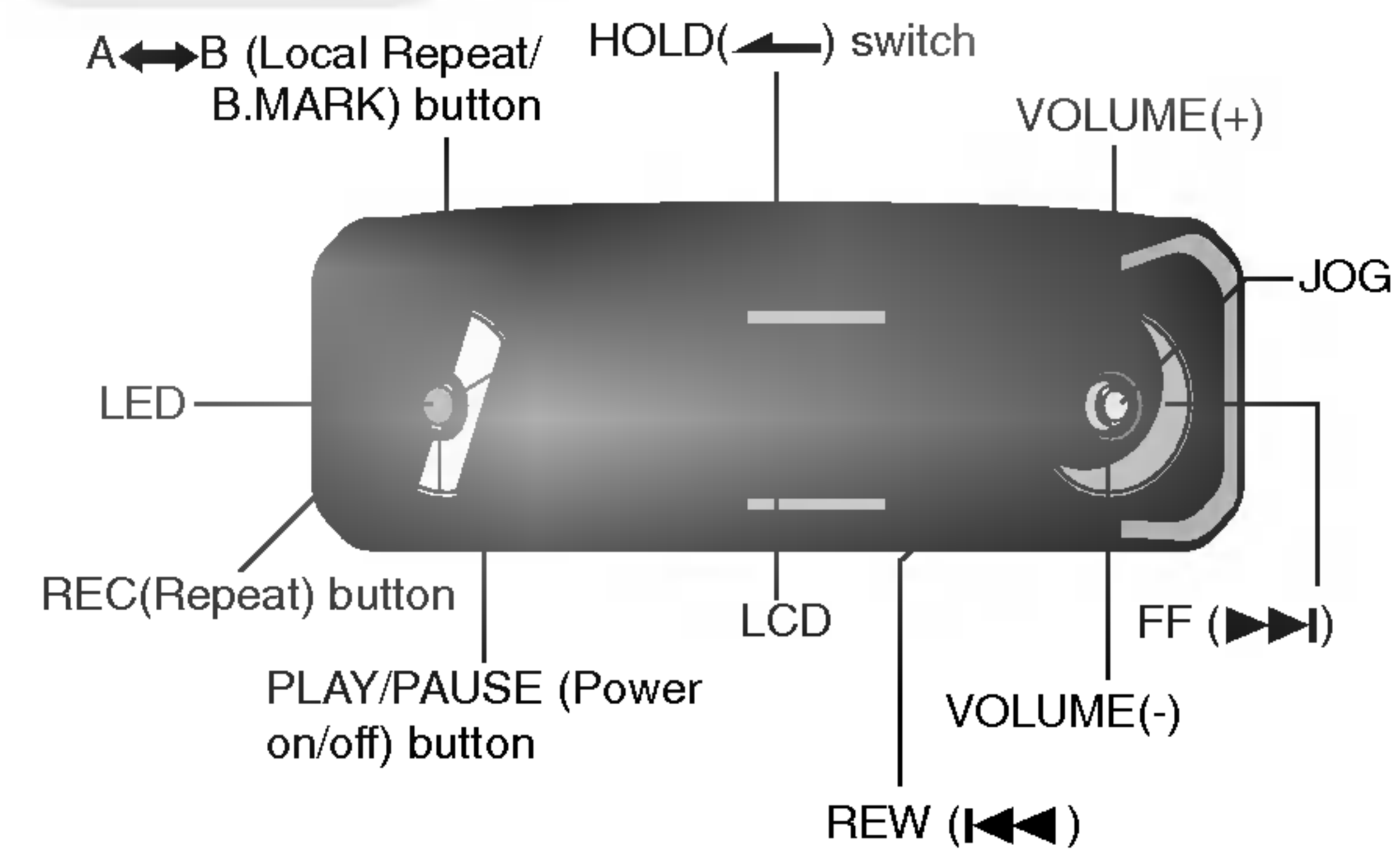
- If it is possible, please avoid operating this device under dry condition.
- When this device stops during normal operation, please replace the battery.



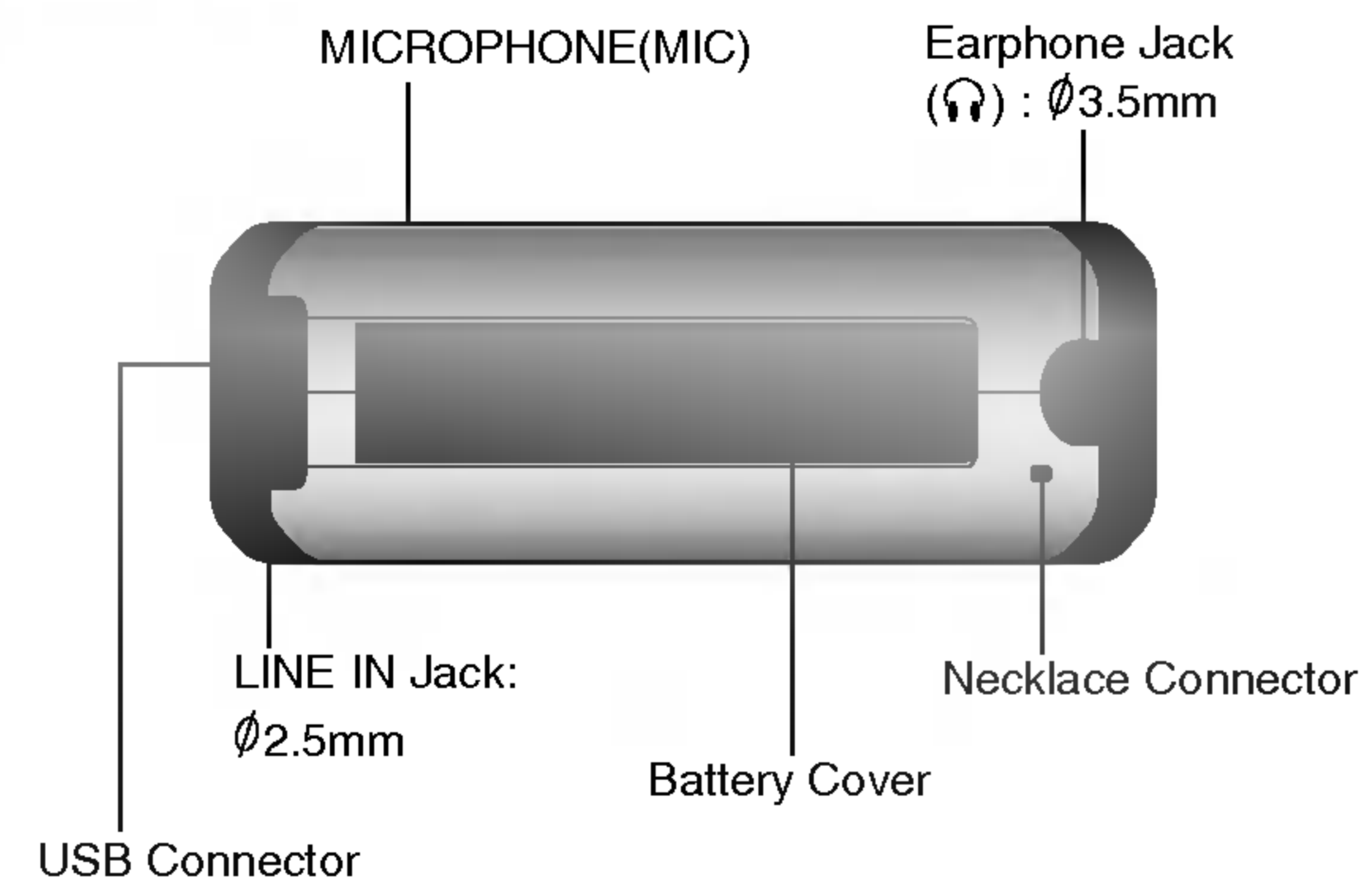
Disposal of your old appliance

1. When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.
2. All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

Front Panel

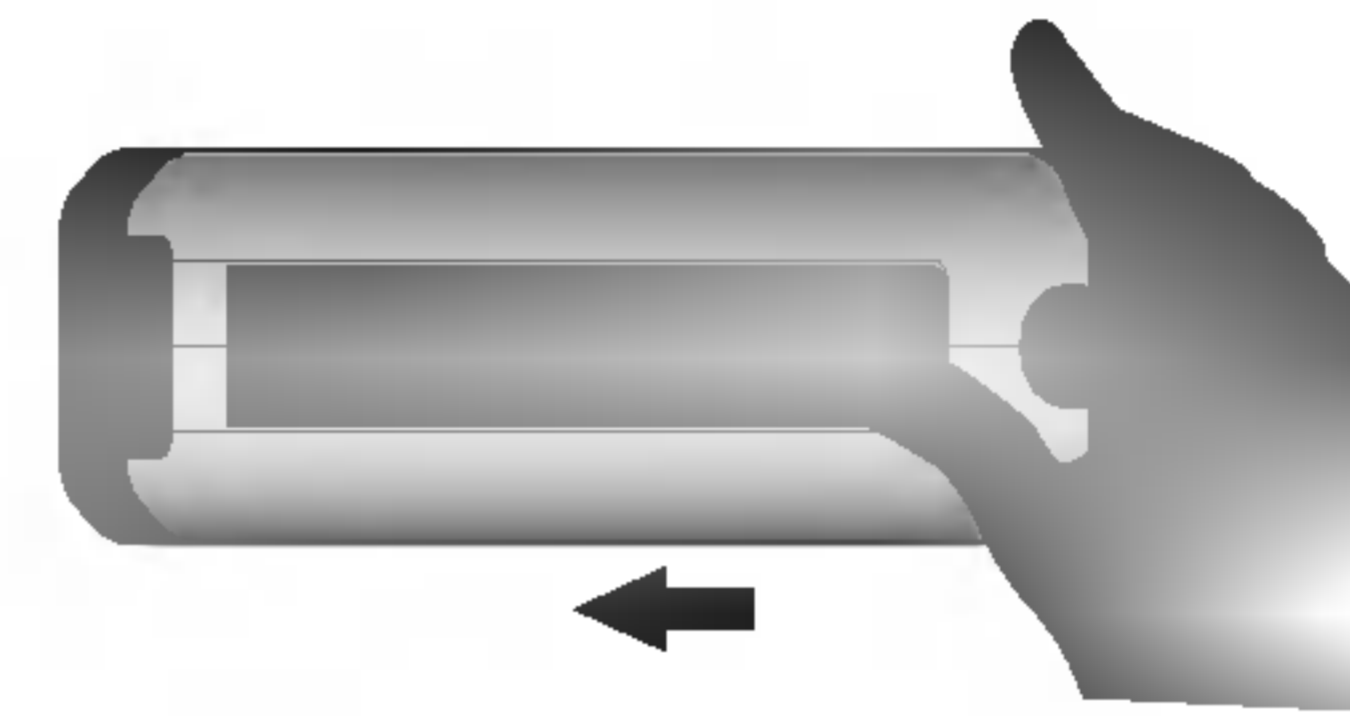


Rear Panel



To install Battery

1 Open battery cover by pushing in the direction of the arrow.



2 Insert the battery.

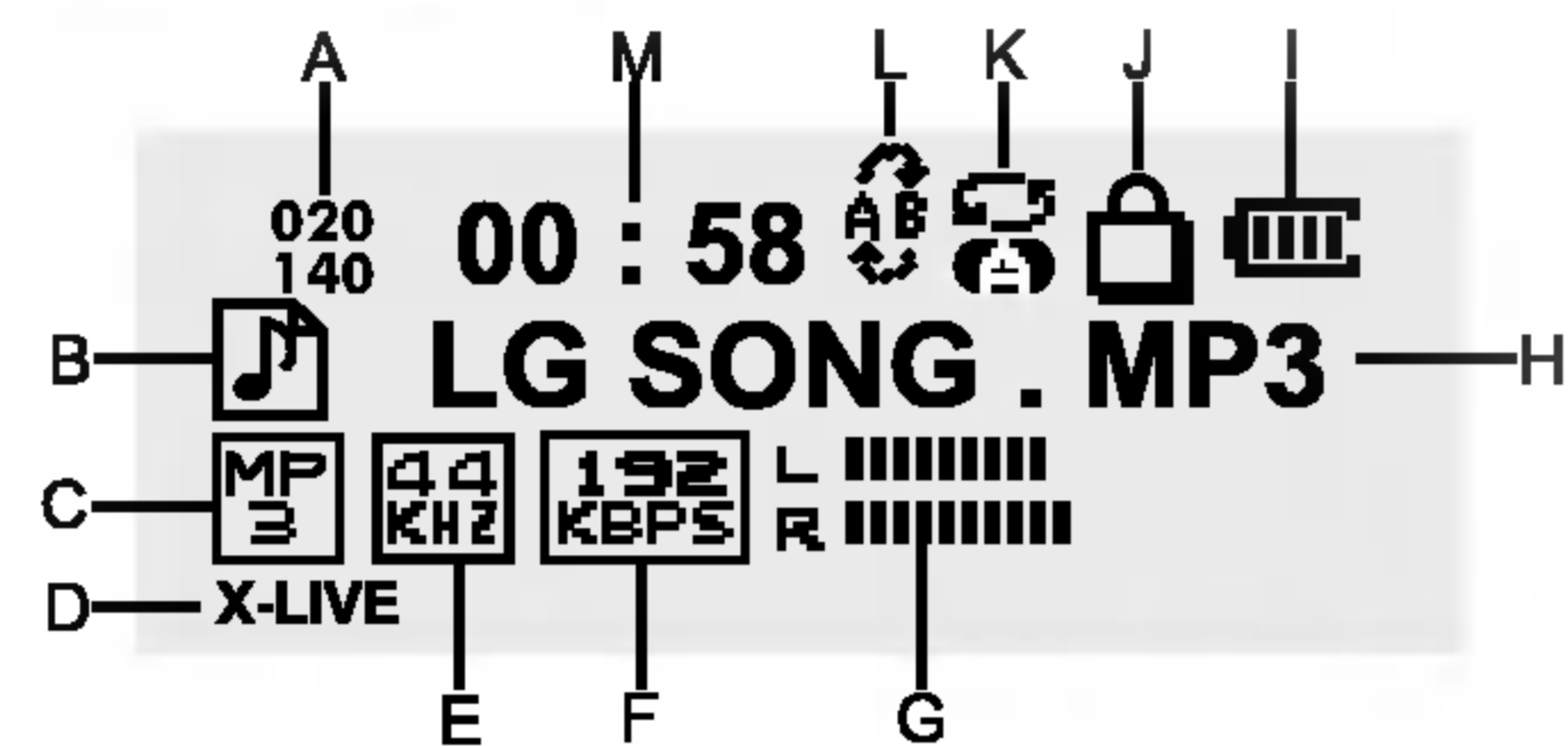
Make sure to match the + and - on the battery to the marks inside the battery compartment.

3 Close the battery cover.

Notes

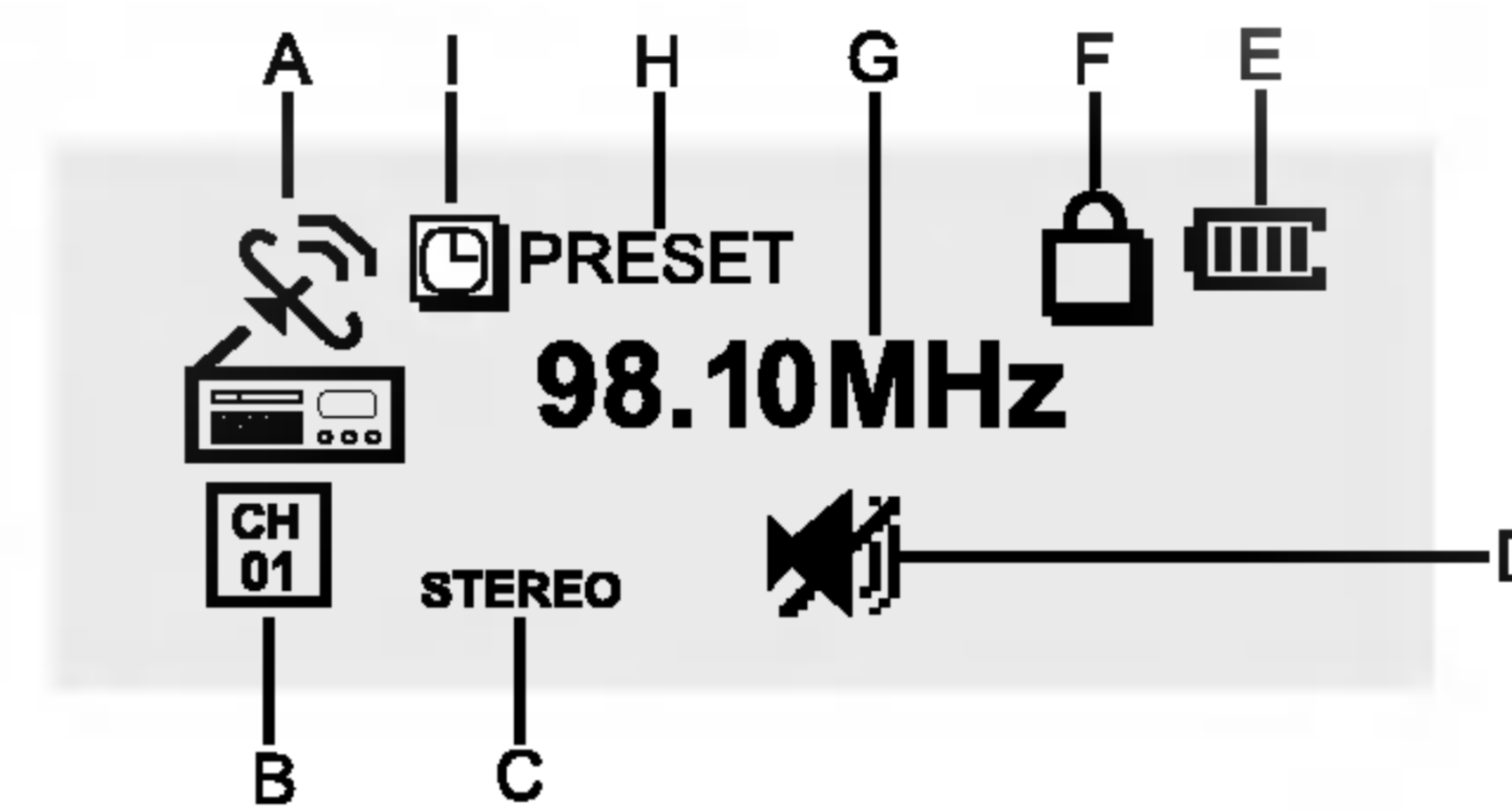
- Improper use of battery may cause battery leakage and corrosion.
- If battery leakage occurs, wipe the battery liquid from the battery compartment, then insert new battery.

Audio mode LCD



- A:** Number of current track
Number of all track (or HOUR of playing time)
 - B:** Indicates music mode (SLEEP CONTROL ON)
 - C:** Form of file Indicator
 - D:** Sound mode
 - E:** Sampling Frequency Indicator (Lyric Indicator)
 - F:** Bit rate Indicator.
 - G:** LEVEL METER (Volume, MUTE indicator)
 - H:** File name or File information
Normal(Title), ID3 Tag, TEXT(Lyric)
 - I:** Battery indicator
 - J:** HOLD indicator
 - K:** Repeat mode
 - L:** Local Repeat mode (Bookmark indicator)
 - M:** Playing time
- Note**
- Indicators (B,C,E,F,G,H) disappears and there appears lyrics for music file with lyrics.

FM mode LCD



- A:** Indicates FM RADIO mode
- B:** PRESET CH number
- C:** MONO/STEREO receiving indicator
- D:** MUTE indicator (Volume LEVEL)
- E:** Battery indicator
- F:** HOLD indicator
- G:** Frequency indicator
- H:** PRESET mode indicator
- I:** SLEEP CONTROL ON indicator

Your player needs the minimum system requirements for your computer.

Operation Circumstances

- OS : Windows 98SE/ ME/ 2000/ XP

You can update the MP3 Explorer software for Windows 98SE/ME/2000/XP available etc. from an internet website by LG Electronics Inc. Refer to the following sample contact procedure;

<http://www.lge.com> → Support → Download → Software → Select continent → Select country/region → Select Product

- CPU : At least Pentium 133MHz
- Memory : At least 32MB
- HDD Space : At least 100MB
- Video Card : 640 x 480 Mode,
At least High Color(16bit)
- USB Port
- CD-ROM Driver

Notes

What is USB?

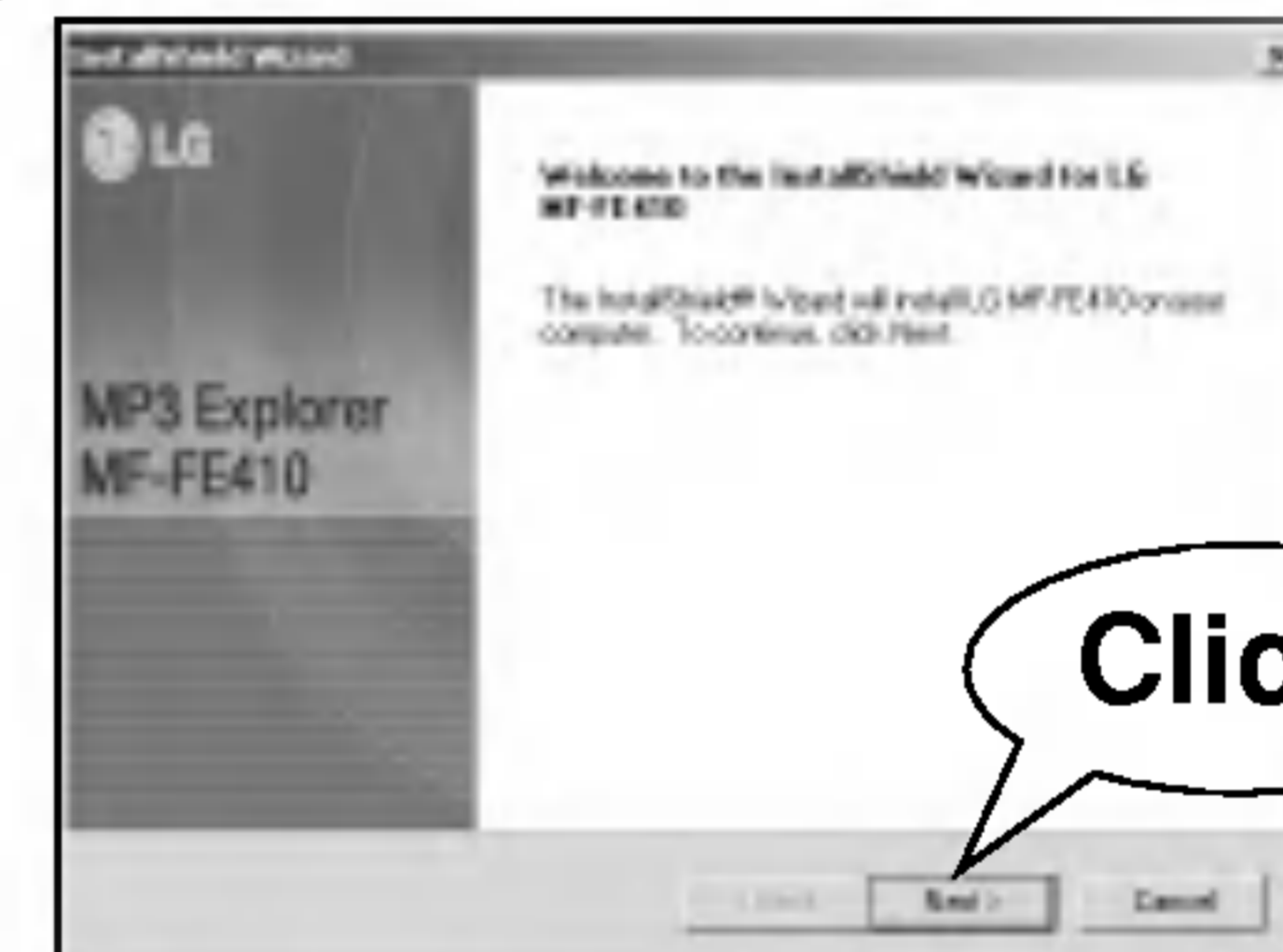
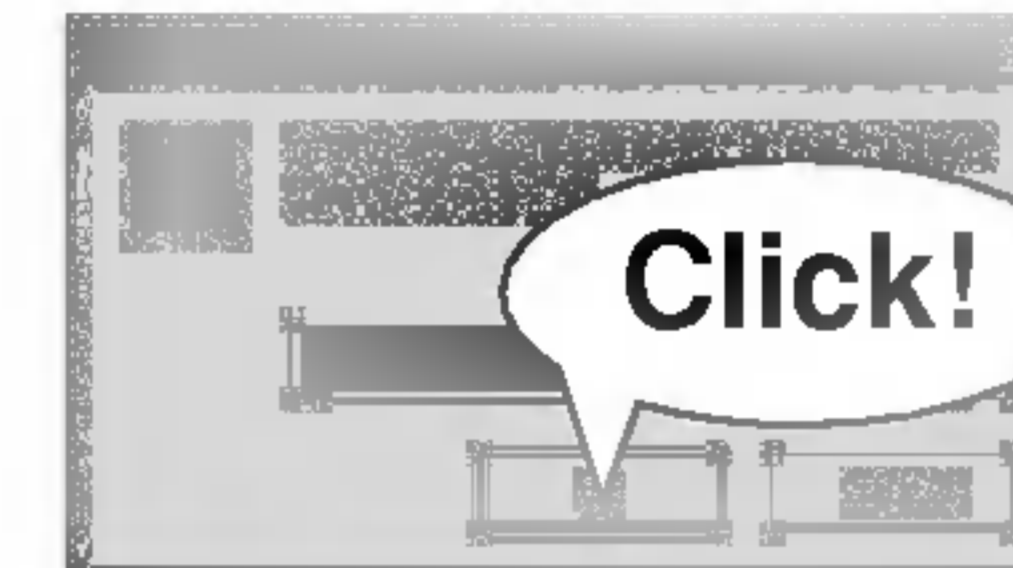
- USB : Universal Serial Bus.
- USB stands for Universal Serial Bus.
- It is a new interface based on the new concept between PC and peripherals.
- The maximum bandwidth is 12 Mbps and a maximum of 127 USB devices can be connected to a single PC.

1 Insert the software CD into CD ROM drive.

The install will be runned automatically.

2 Select the language you want.

3 It appears "Program may be will seem where OS language version being used and installation language" and click "Yes".



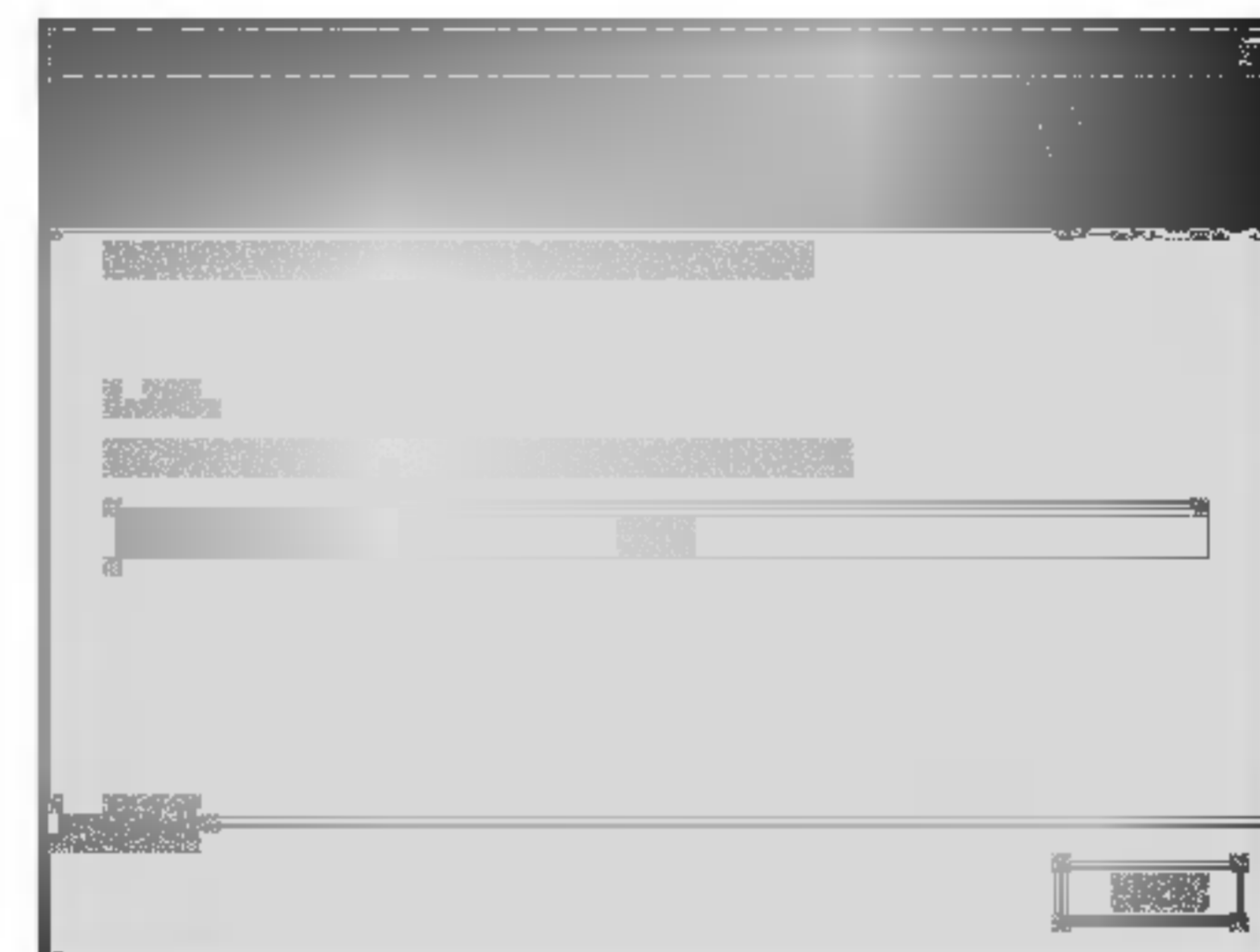
4 Click the "Yes" button in the installation window.



5 Select the installation folder and click the "NEXT" button.



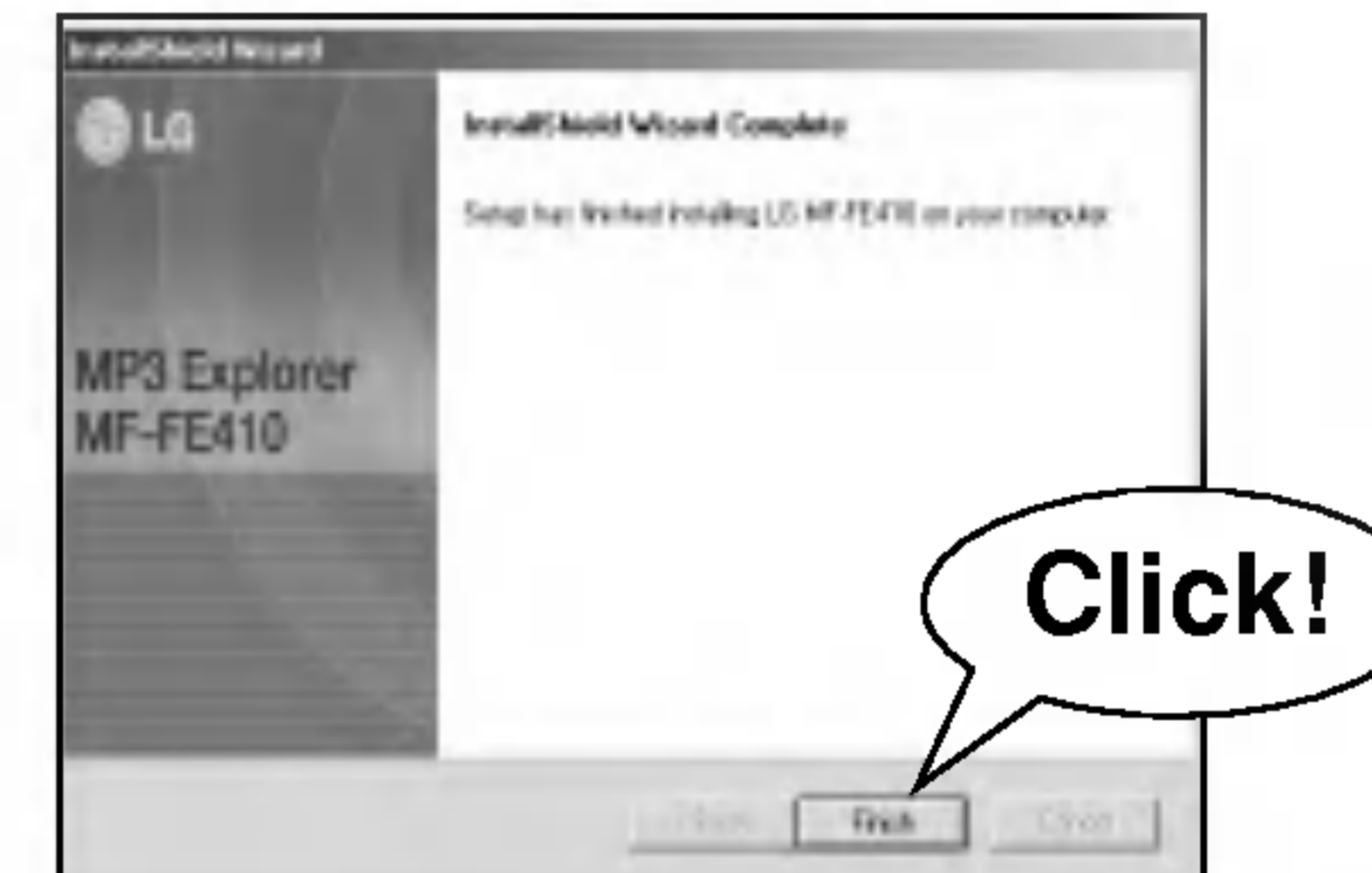
6 Installation is progressing.



7 "Do you want to make a shorten key on the ground screen?" appears.

Yes: Manger icon is created on the Windows desktop
No: Manger icon is not created on the Windows desktop

8 Click the "Finish" button when the installation complete screen is displayed.



Note

- When you install the supplied software CD, don't connect the supplied USB cable to a PC from your MP3 Player. After you install the software CD, connect the supplied USB cable to a PC from your MP3 Player.

Insert the Windows 98SE driver CD shipped with product. Open the window below by connecting the product to the computer. "Hardware Wizard" will be runed automatically

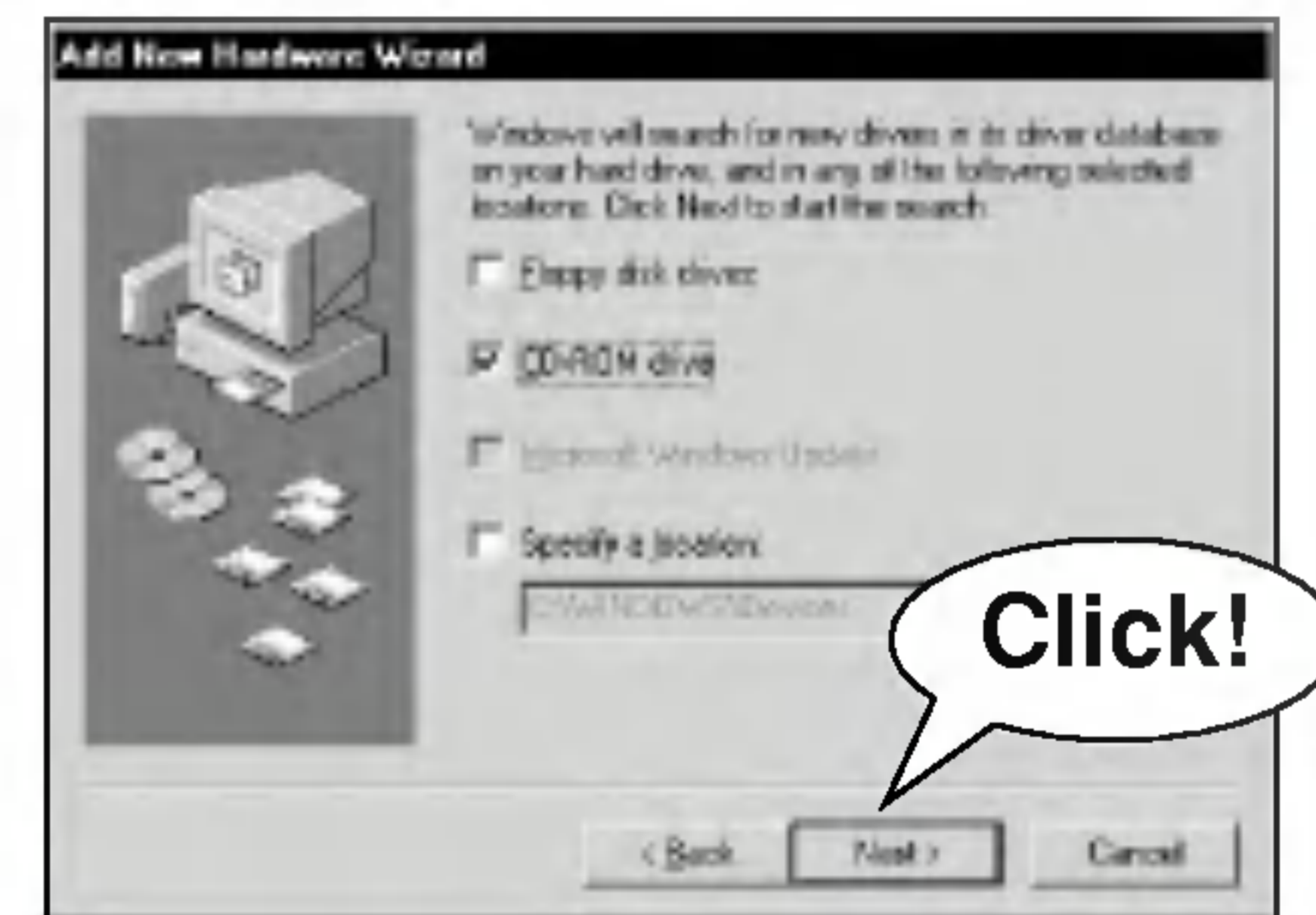
1 Click "Next".



2 Click "Next".



3 Click "Next".



4 Click "Next".



5 Installation to Windows 98SE has been completed.



6 Open My Computer with Windows Explorer to check that the player is installed as a removable disk.



You can upgrade FIRMWARE to add, change or improve the functions of the player, in which the Firmware means its Operating System.

- 1** Visit the company website (www.lge.com) to check if there is an upgraded version available for the player.
- 2** Use the USB cable to connect the device to your PC
- 3** Copy the new firmware file (player.rom) to the player in the USB port.



4 Disconnect the USB cable. Turn off and turn on again. The message "F/W UPGRADE" appears automatically and starts upgrading.

Notes

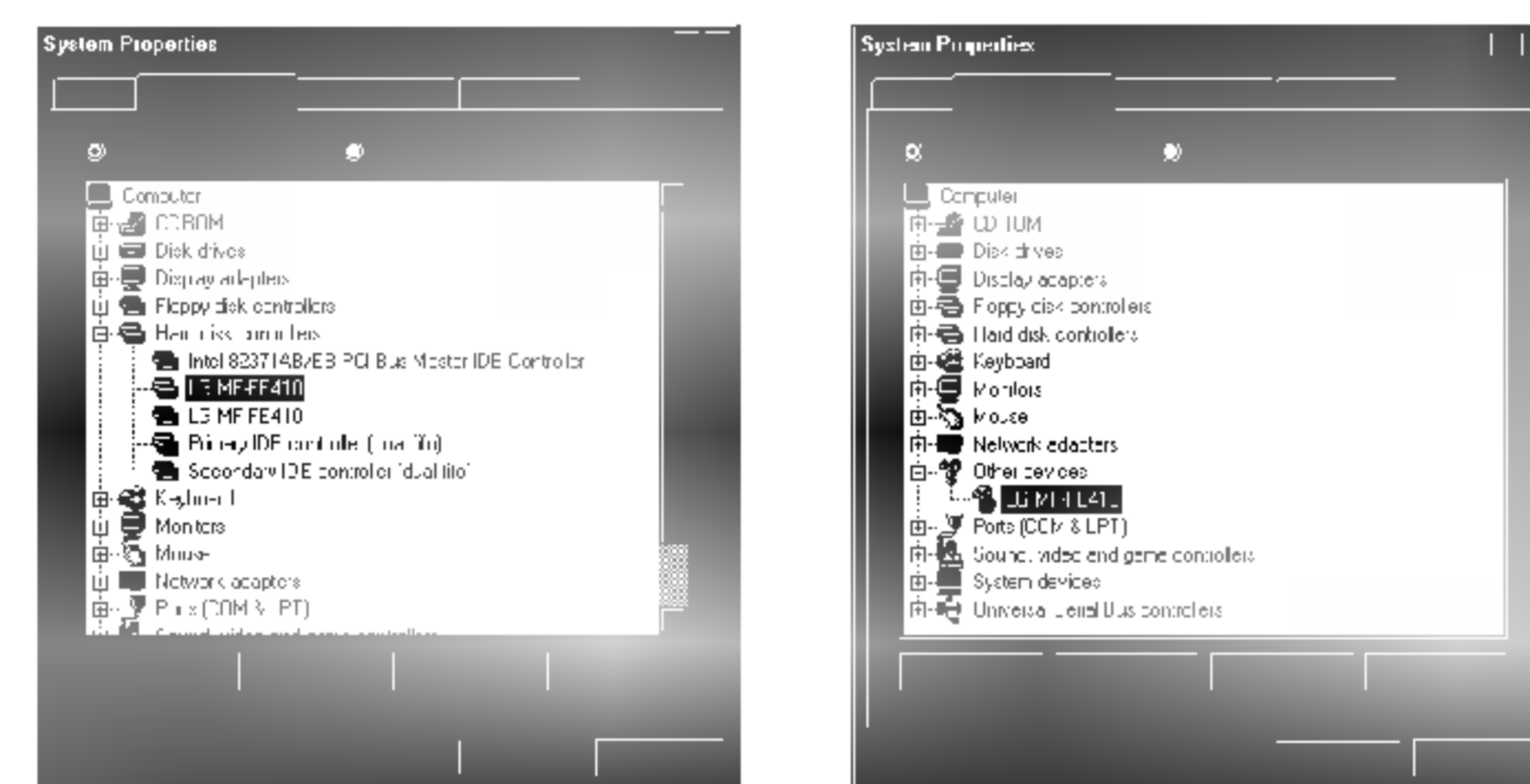
- Turn the power off when the Firmware Upgrade is completed.
- Don't press any buttons during the Firmware Upgrade.

Follow these steps if Explorer is not installed or installation is failed. Both PC and player are not recognized.

1 Check the “Device Manager”.

Windows 98/ME : Control Panel → System → Device Manager

Window 2000/XP: Control Panel → System → Hardware → Device Manager



2 Select if there is a device listed with an exclamation mark or a question mark.

3 Double click selected a device list.

4 Selecting the “Driver” and click “Update Driver...”.

5 Click “Next”

6 Select updated driver. Click “Next”

7 Click “Finish”.



☒ **Note**

This picture's condition is Win98SE

- Used where symptom as below occurs.
- Where both PC and player are not recognized.
 - Where characters are strange or broken.
 - Where download/upload is not done.

- 1** Insert the software CD into CD ROM drive.
- 2** Open the “Recovery Program”
- 3** Install file to your PC.

Windows 2000/XP :
install2000Xp.bat
Windows 98/ME :
install98Me.bat

- 4** To complete the installation, make sure to restart your PC.

- 5** Run “TCC7xx_FWDN.exe”



- 6** Click “...”
⇒ Select Firmware file.

- 7** Turn off player. Connect your PC and player with the USB cable.
⇒ Press and hold REC button during connect your PC and player with the USB cable.



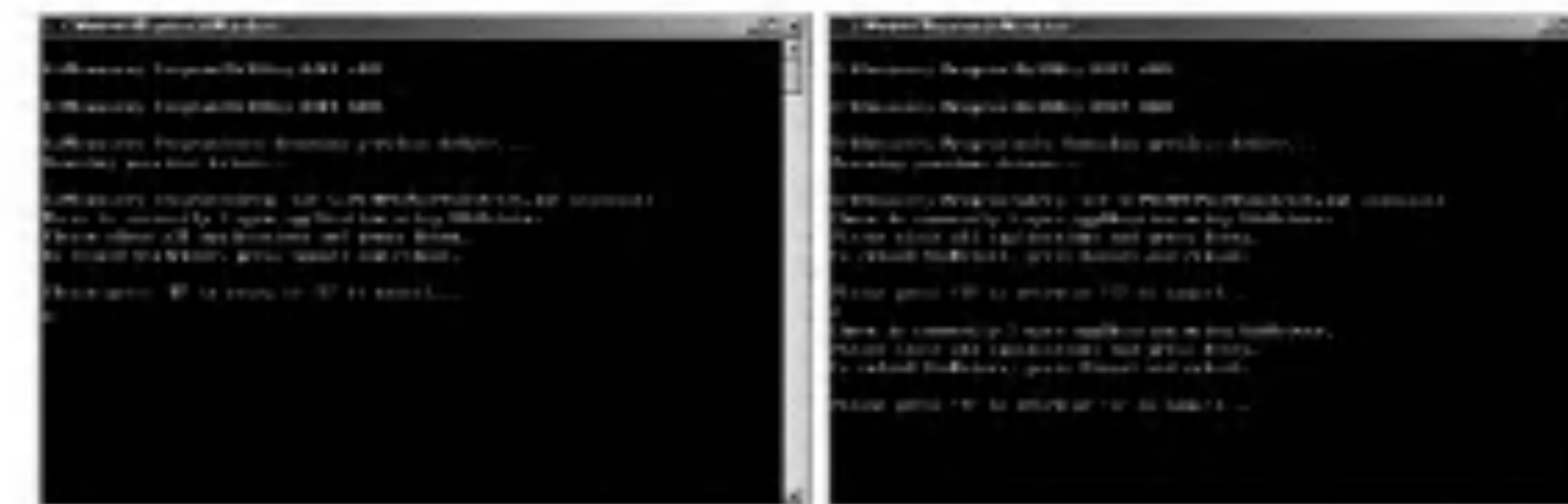
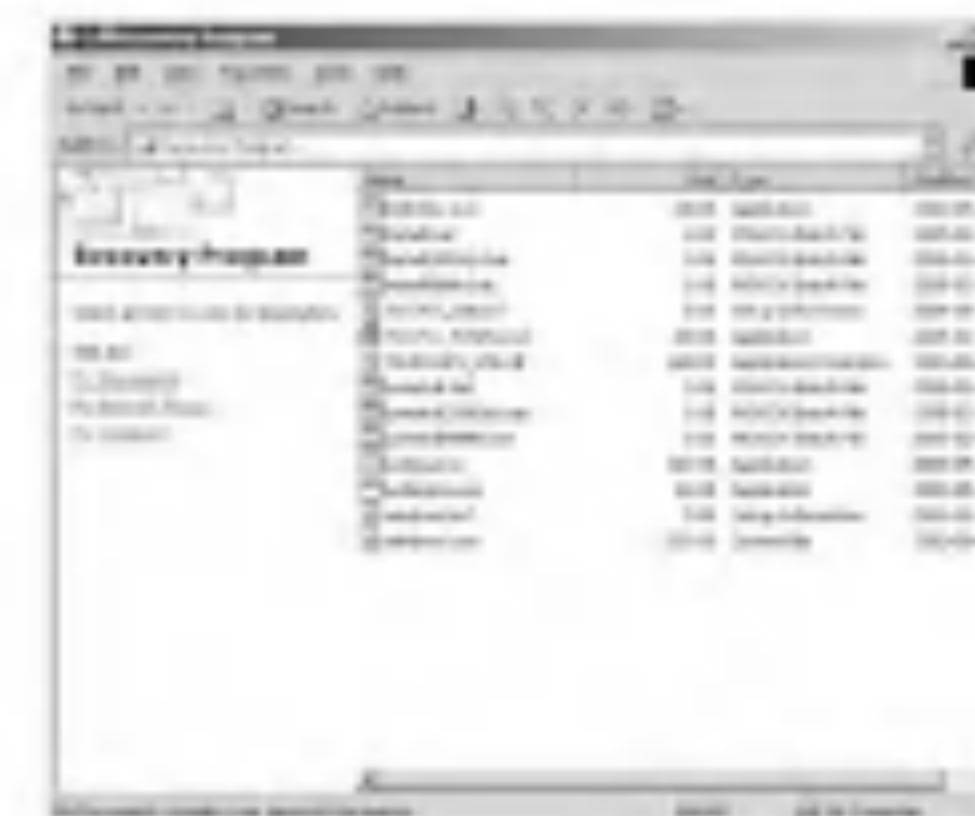
- 8** Click “Write NOR”
- 9** Disconnect USB cable when “NOR flash write completed” appears.



- 10** Uninstall Recovery program. Double click uninstall file.

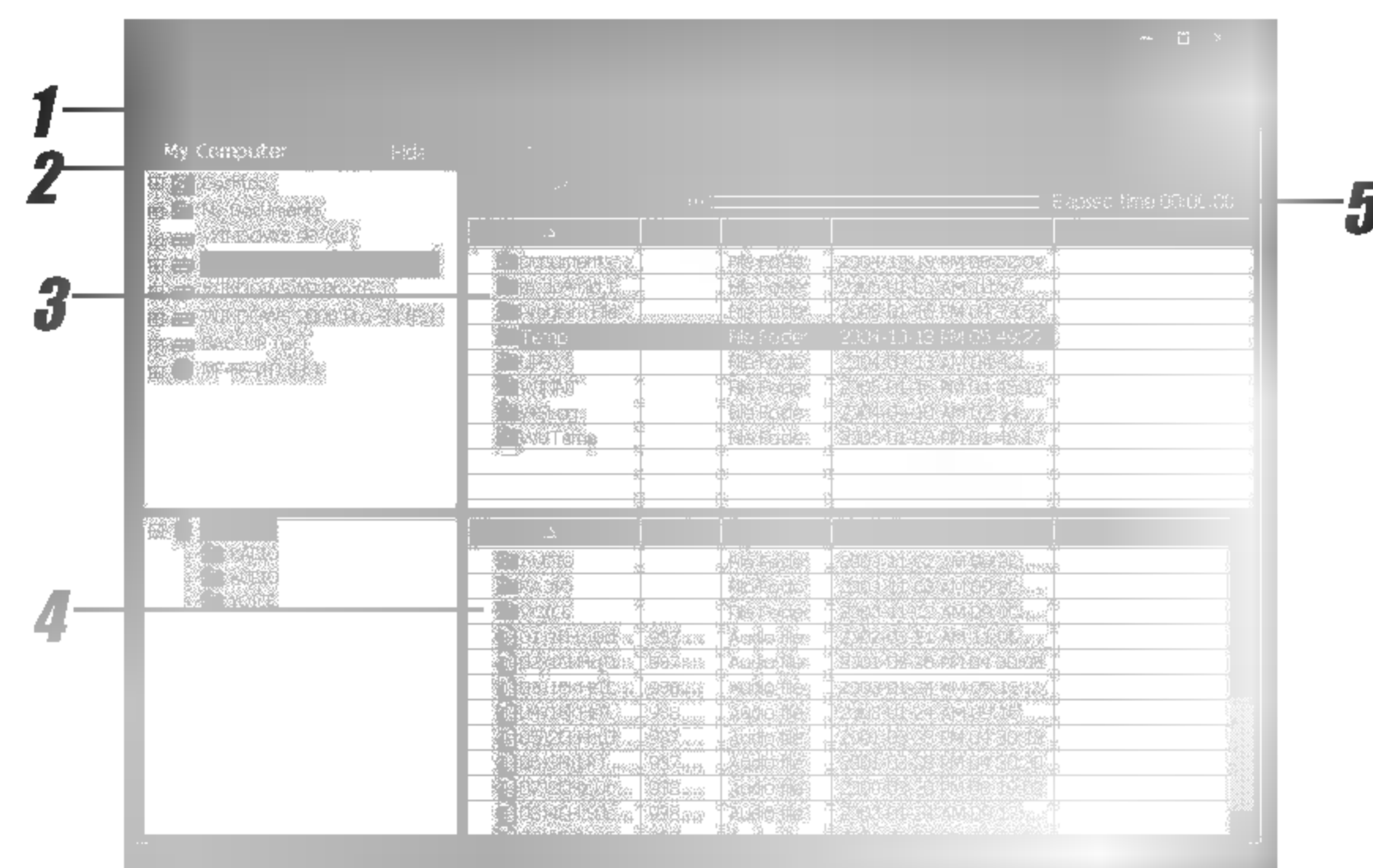
Windows 2000/XP :
uninstall2000Xp.bat
Windows 98/ME :
uninstall98Me.bat

- 11** Press “R” button in your PC. To complete the installation, make sure to restart your PC.



My Multimedia Manager

The MP3-Explorer is the software that interacts with the player and a PC. MP3 files or any data files can be downloaded to the player or vice versa.



- 1** MENU bar
- 2** Music file controller
- 3** File list window of PC
- 4** File list window of MP3 Player
- 5** Playing time

☒ Note

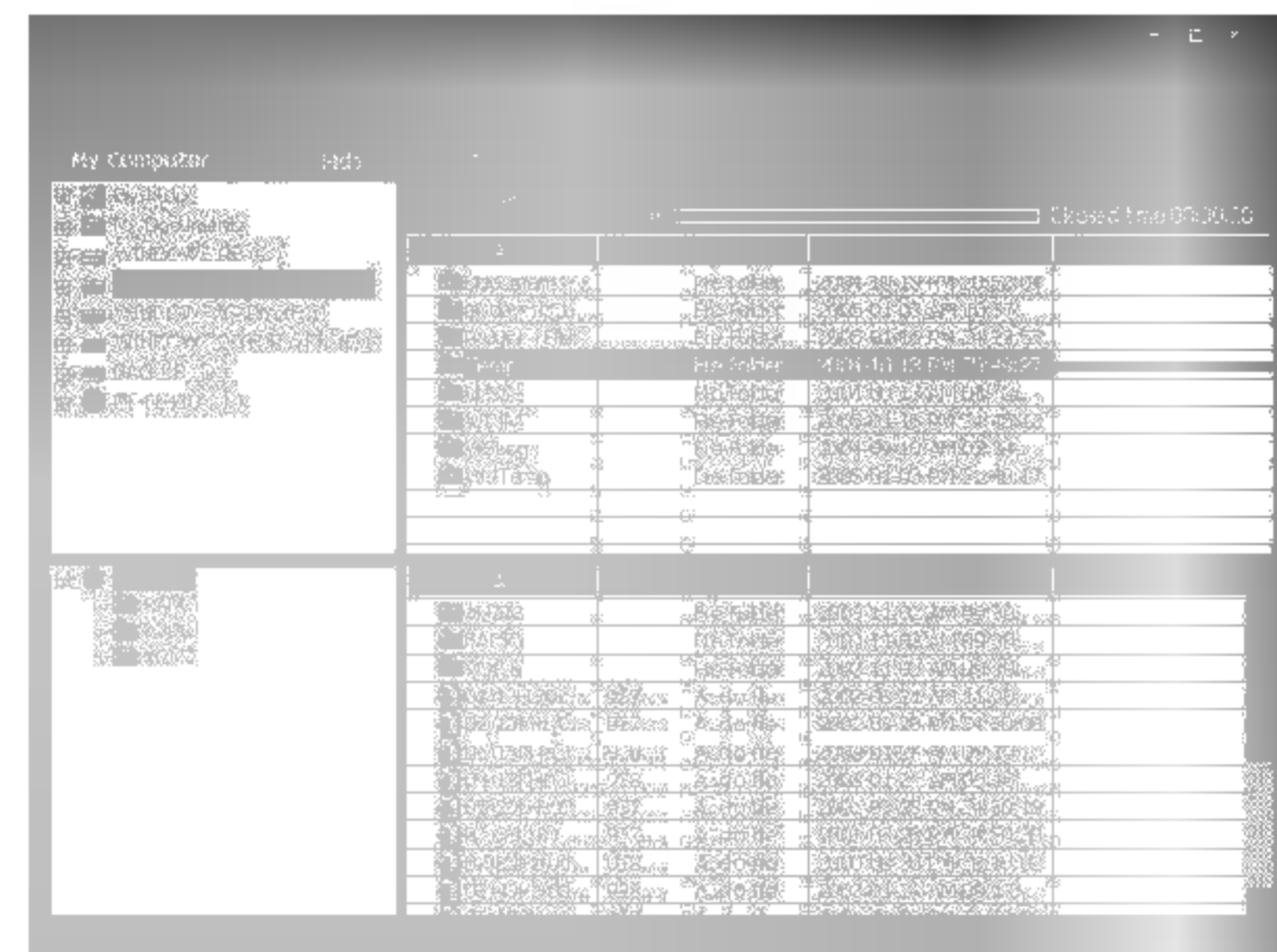
- The capacity of the unstable built-in memory is less than indicated as the internal firmware uses a part of the memory as well.
- There is a possibility of seeming different from windows files list order to player's files list order. Because Windows and player are different from each other in system.

Downloading and Uploading

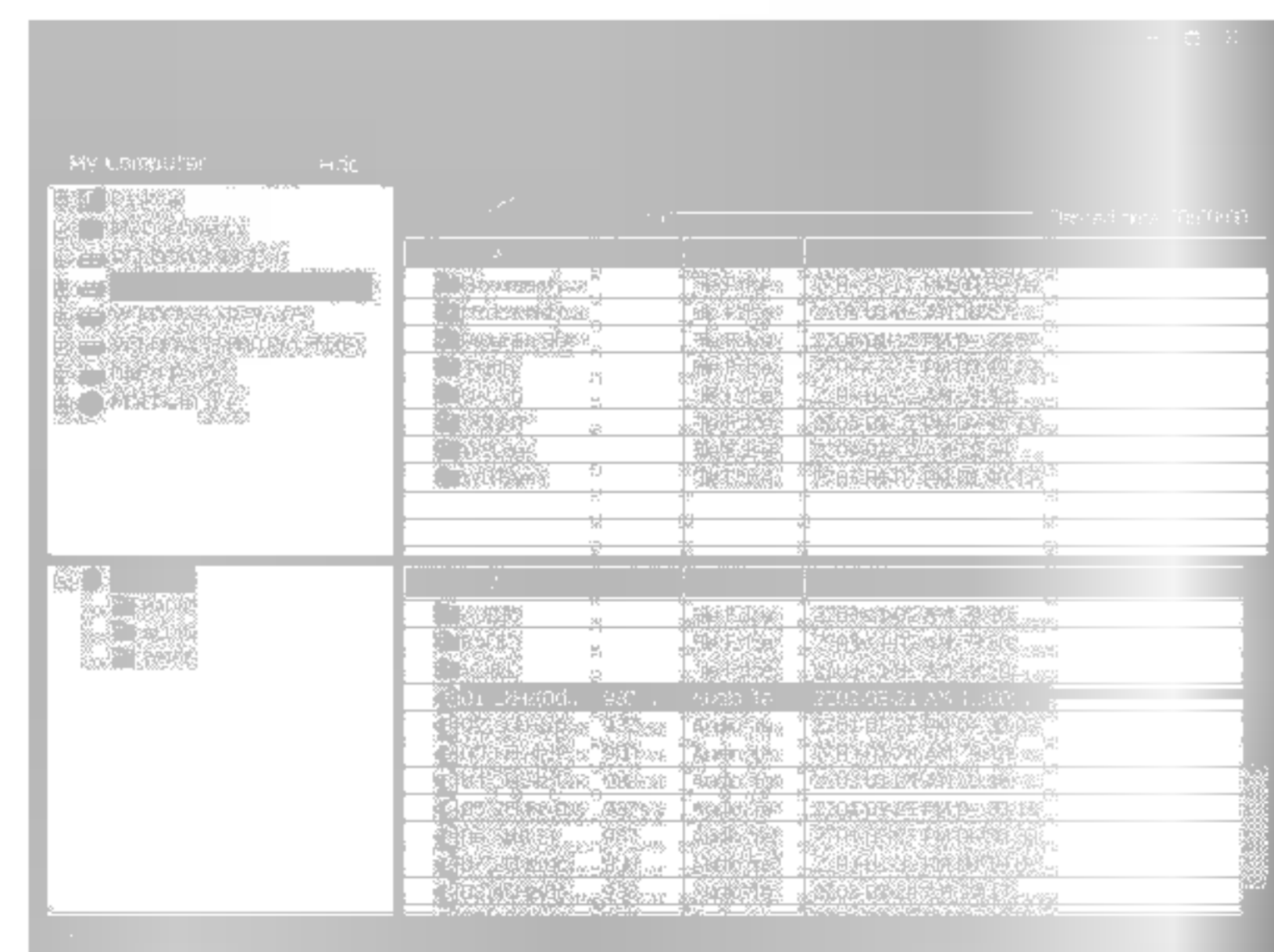
Before downloading or uploading files or folders to your MP3 Player and connecting the MP3 Player to PC using the USB cable.

Note: MP3 and WMA files are not available to upload.

1 Select file or folder to download or upload.



Download



Upload

2 Click "1".

3 Click "2".

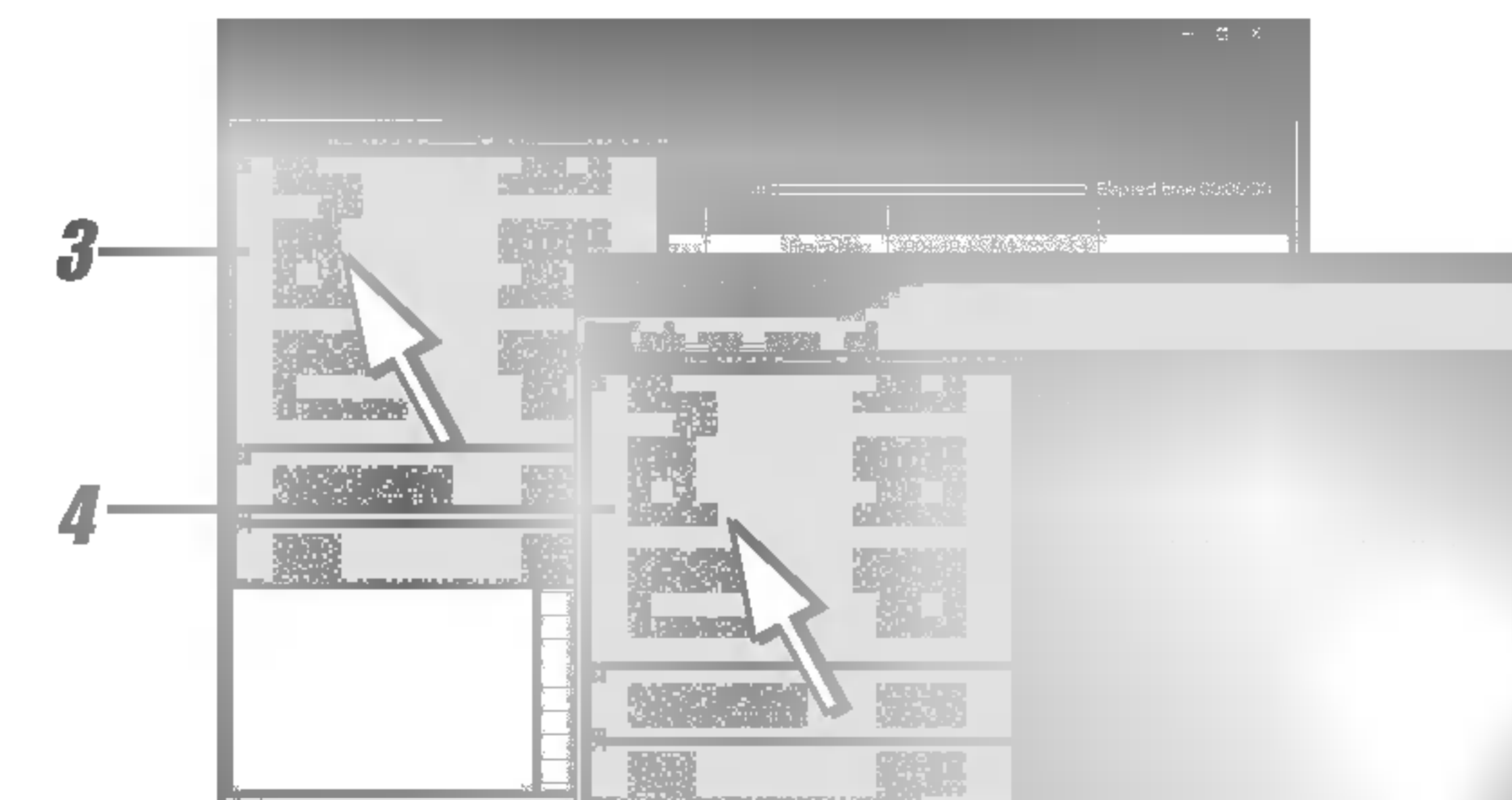
Selected file or folder is downloaded or uploaded.



4 Click "3".

5 Click "4".

Selected file or folder is downloaded or uploaded and selected file or folder is deleted.



To Delete file or folder

- 1** Select file or folder to delete.
- 2** Click "1".
Selected file or folder is deleted.



RENAME

- 1** Click "1".
You can change the name of file or folder.



New folder

- 1** Click "1".
You can make a new folder in your PC or the player.



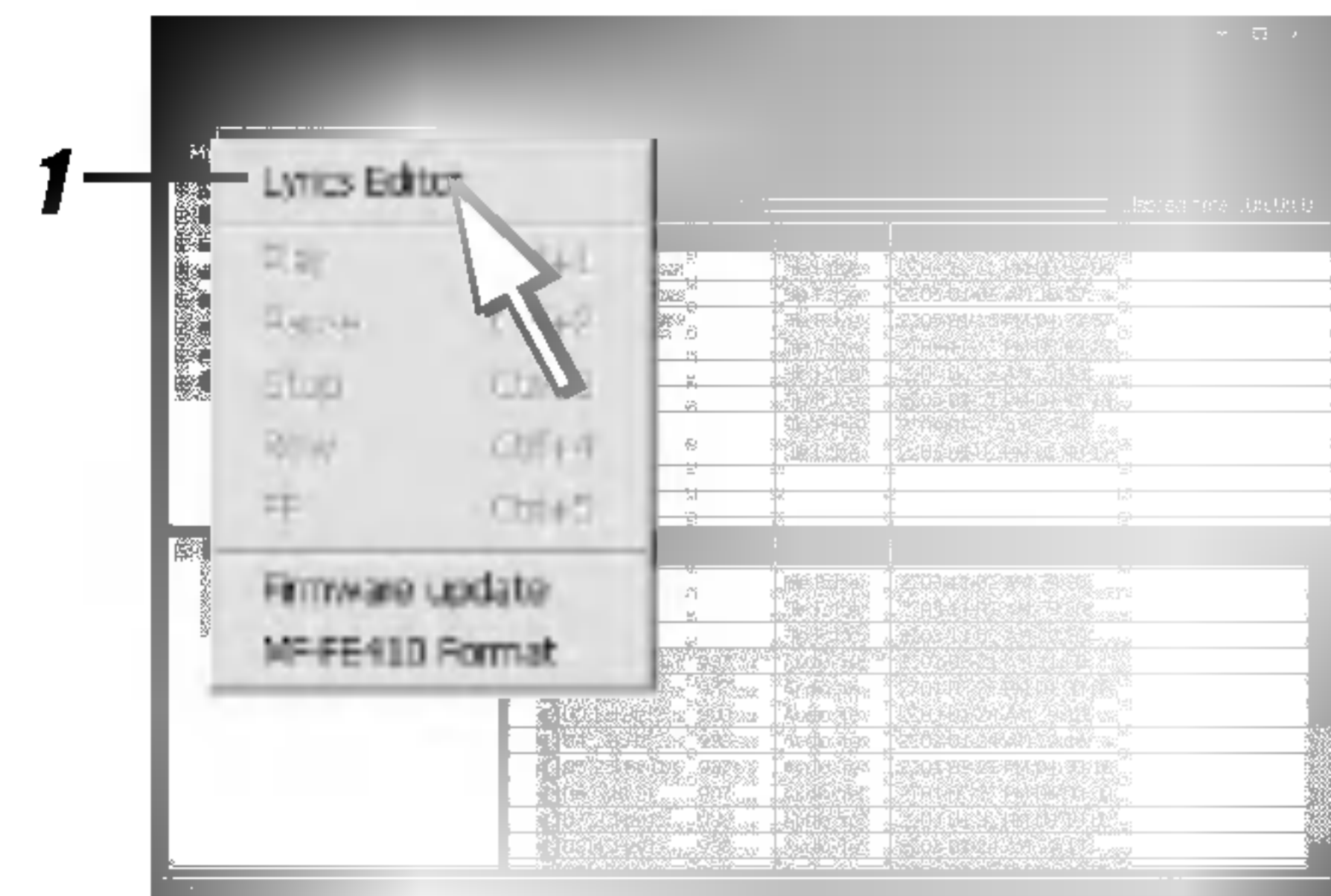
Exit

- 1** Click "1".
This program is closed.



Lyrics Editor

- 1 Click "1".
Lyrics Editor is operated



This program also enables users to play music files with lyrics made by MediaSync. For music files without lyrics, users can search for the lyrics on the web and insert them into the music files.

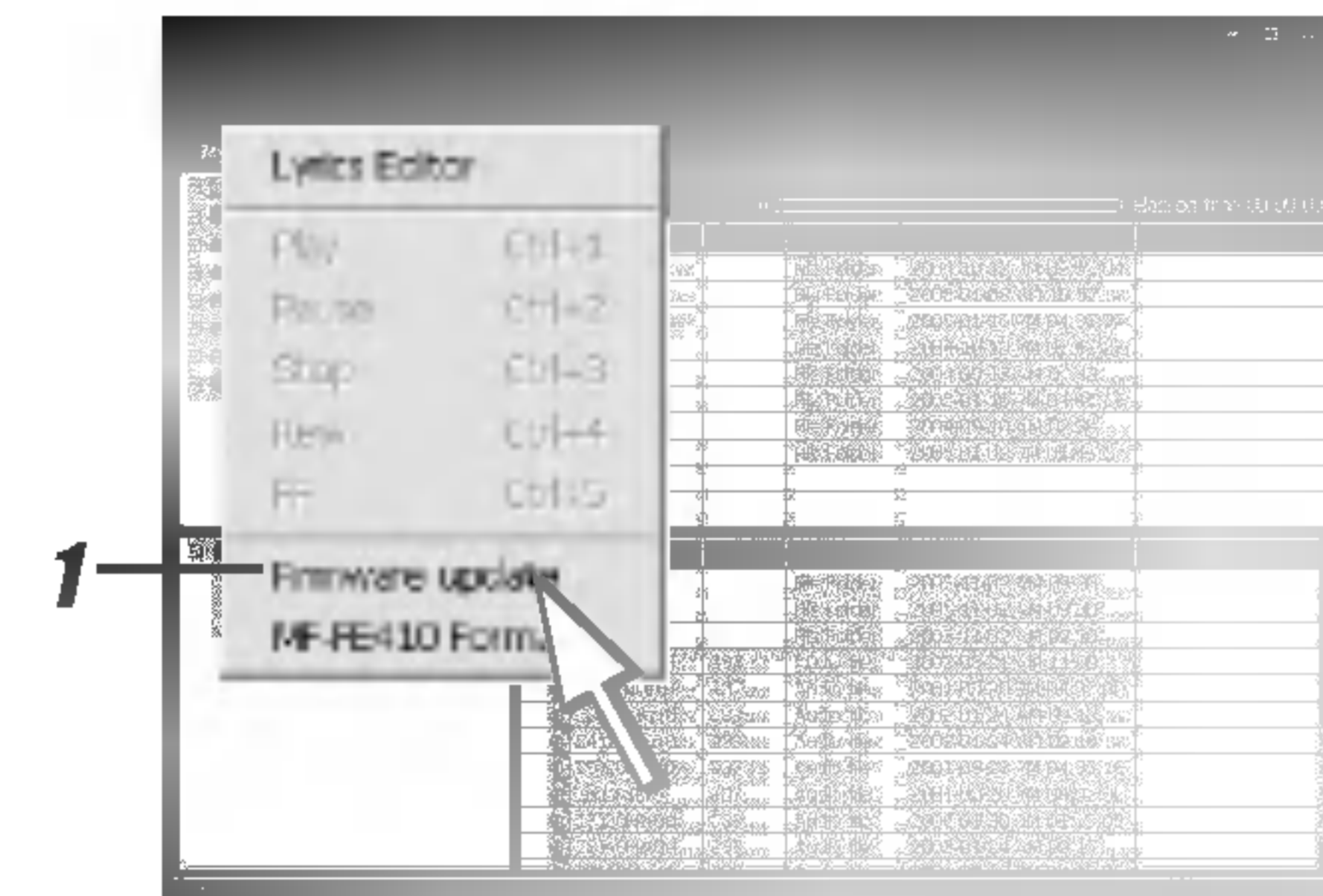
- Run Lyrics Editor and press F1.
Help will appear.



Upgrading Firmware

Before firmware upgrade and refer to 11page
Visit the company website (www.lge.com). You can download firmwareupdate file(player.rom).

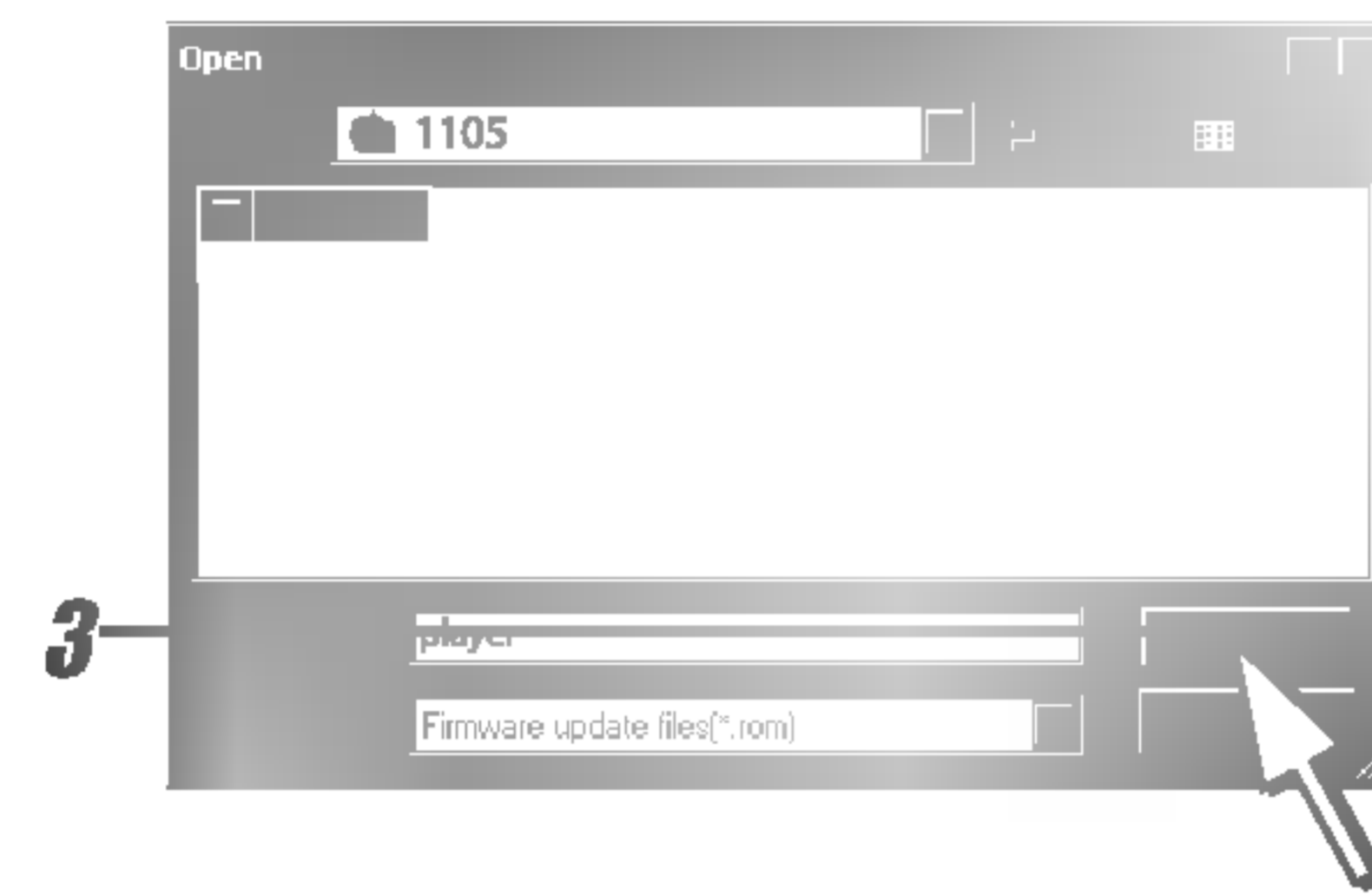
- 1 Click "1".



- 2 Click "2".



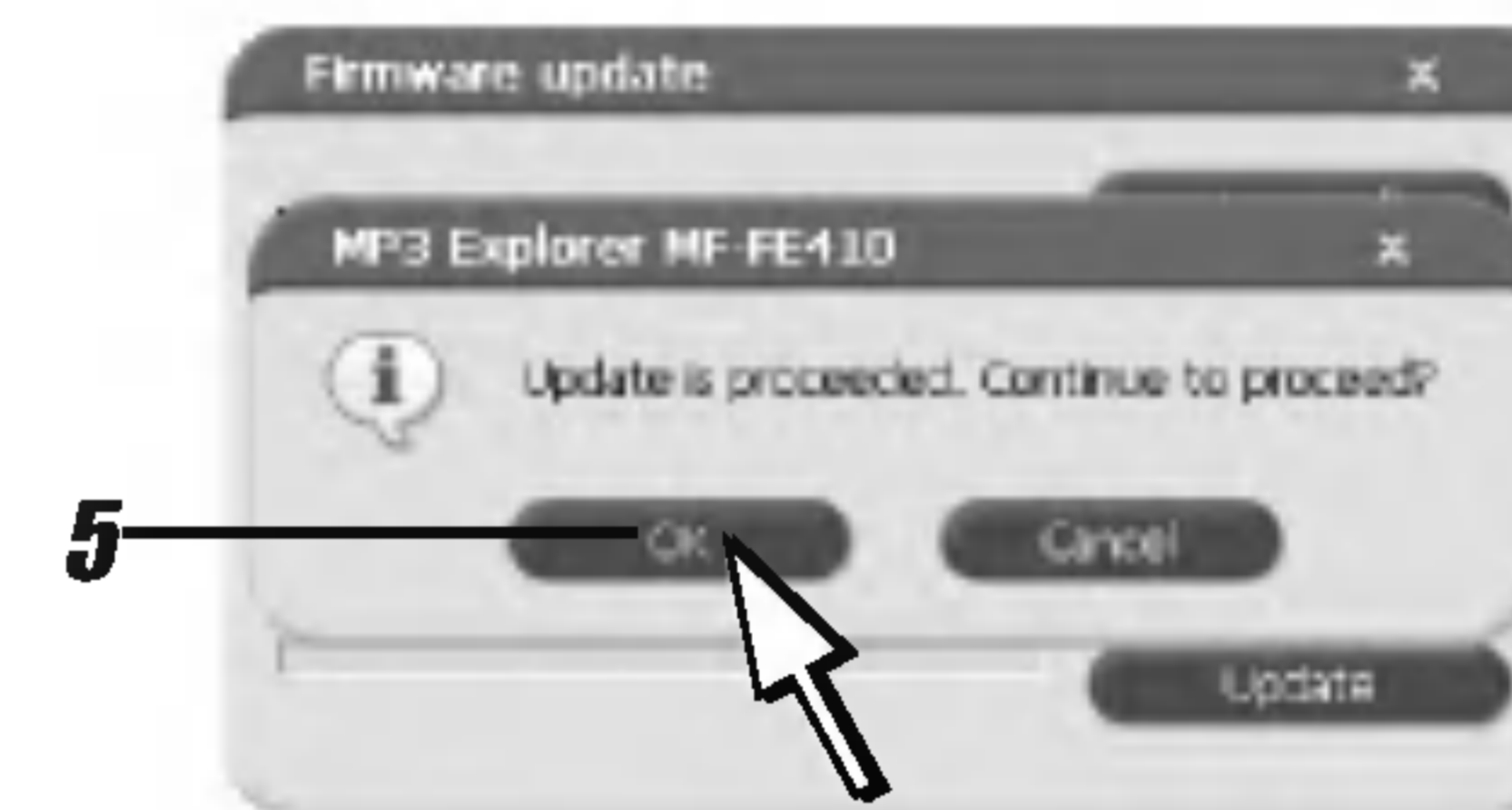
- 3** Click "3".
Select firmware upgrade file.



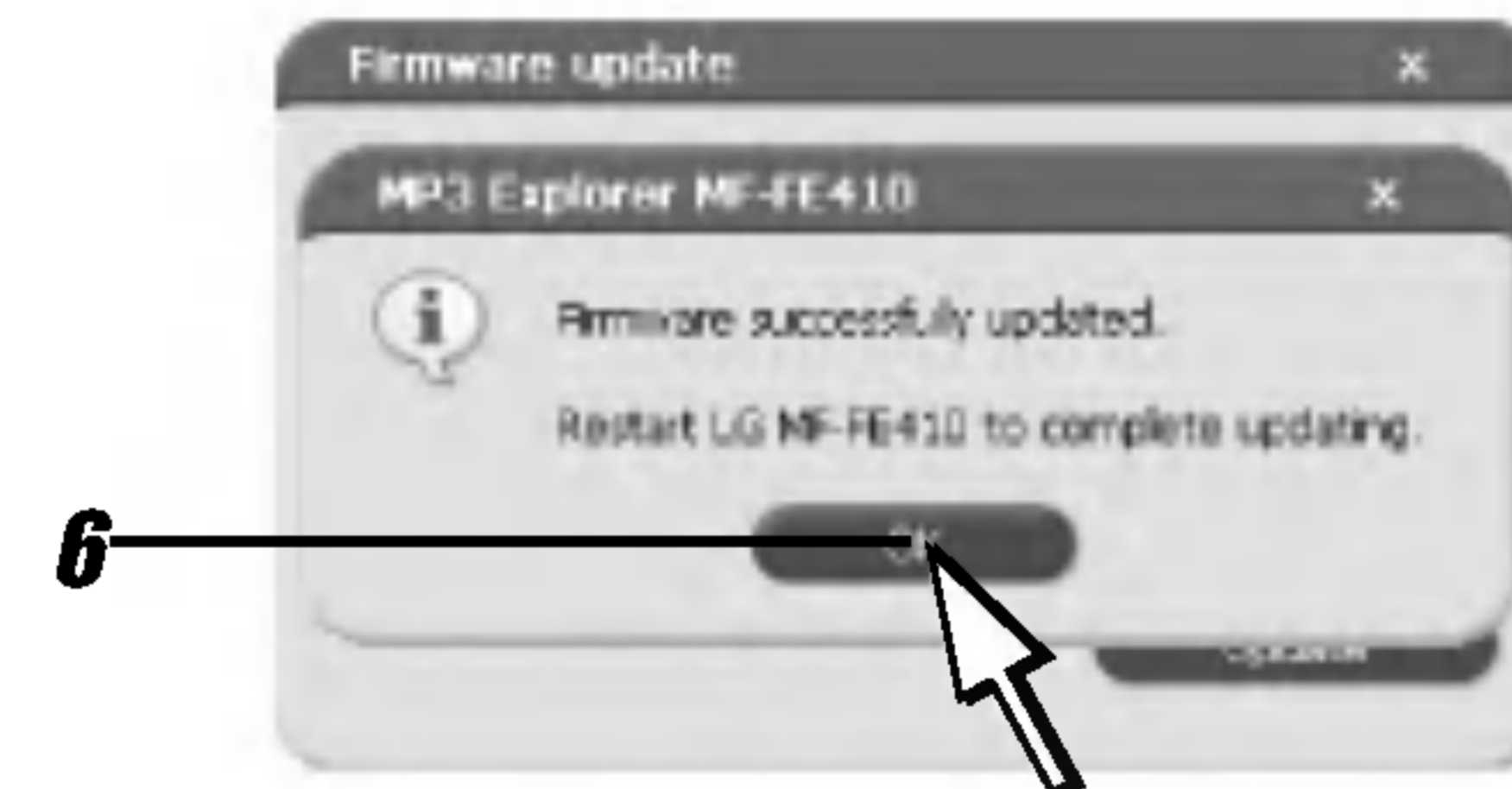
- 4** Click "4".
Firmware upgrade is started.



- 5** Click "5".
Firmware upgrade is completed.



- 6** Click "6".
Disconnect USB cable. Turn off and turn on the player
(Refer to 21 page - 22 page).



To Format Memory

This function deletes all files existing on the file list window of MP3 Player.

1 Click "1".

2 Click "2".

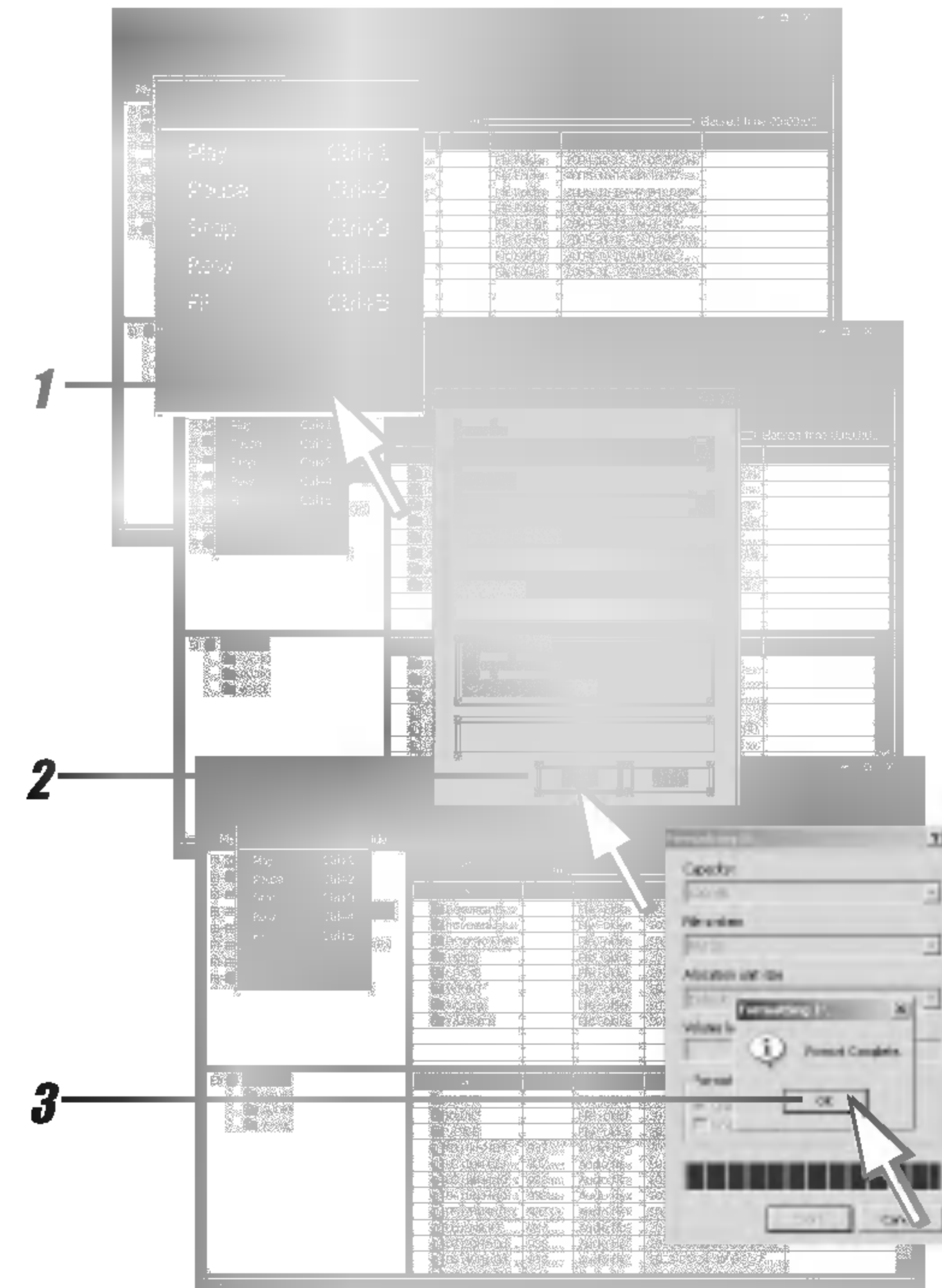
Format is started.

3 Click "3".

All file and folder are deleted.

Notes

- Before formatting the internal memory, connect the USB cable to MP3 Player and PC.
- Don't remove the USB cable while formatting or downloading a files.
- Player don't became the first grade when format is completed.
- When format is completed, RADIO, AUDIO and VOICE folders is not deleted.

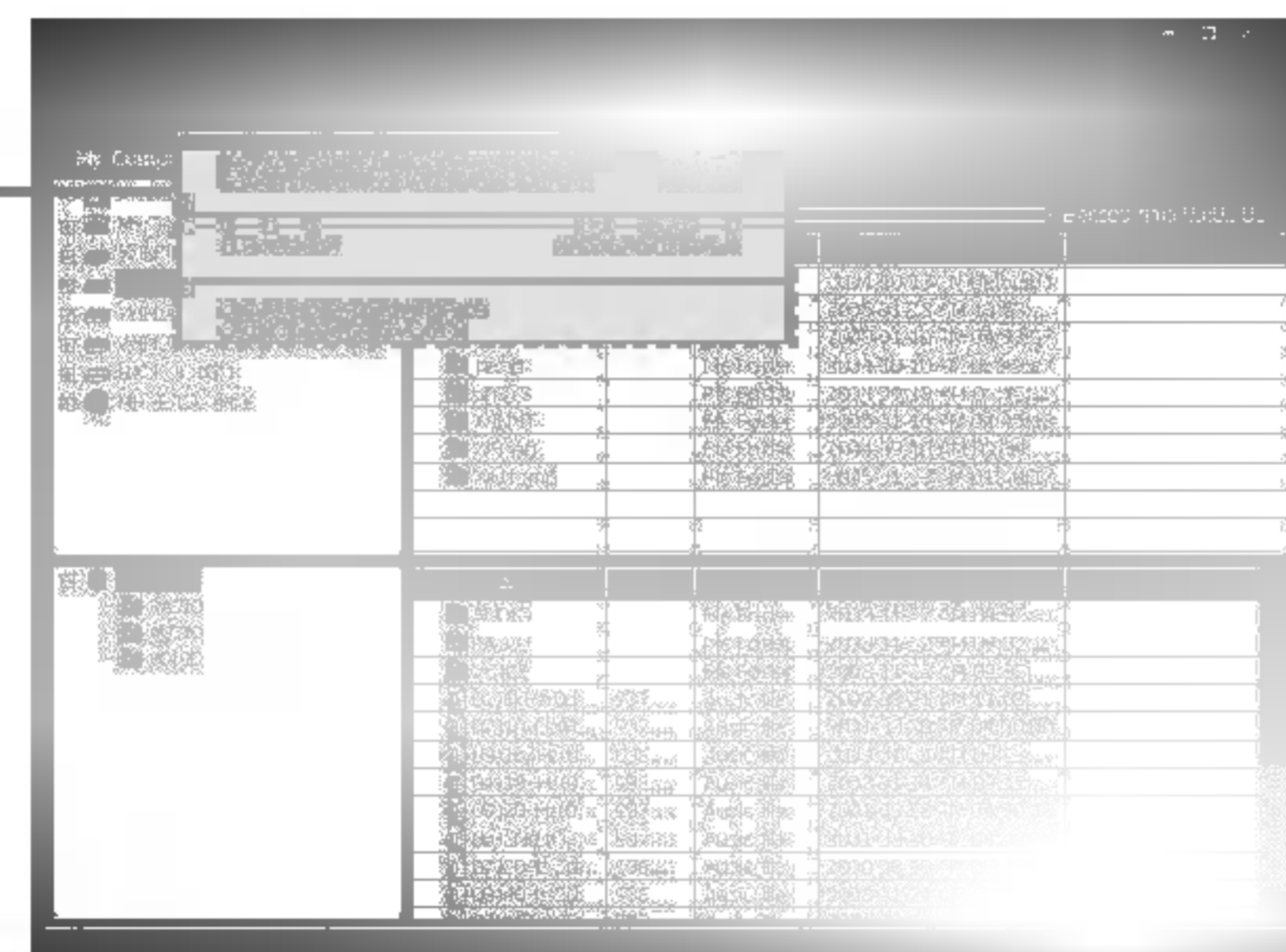


VIEW

Display of MP3 Explorer set up.

You can set up Display of MP3 Explorer using the VIEW menu.

VIEW menu

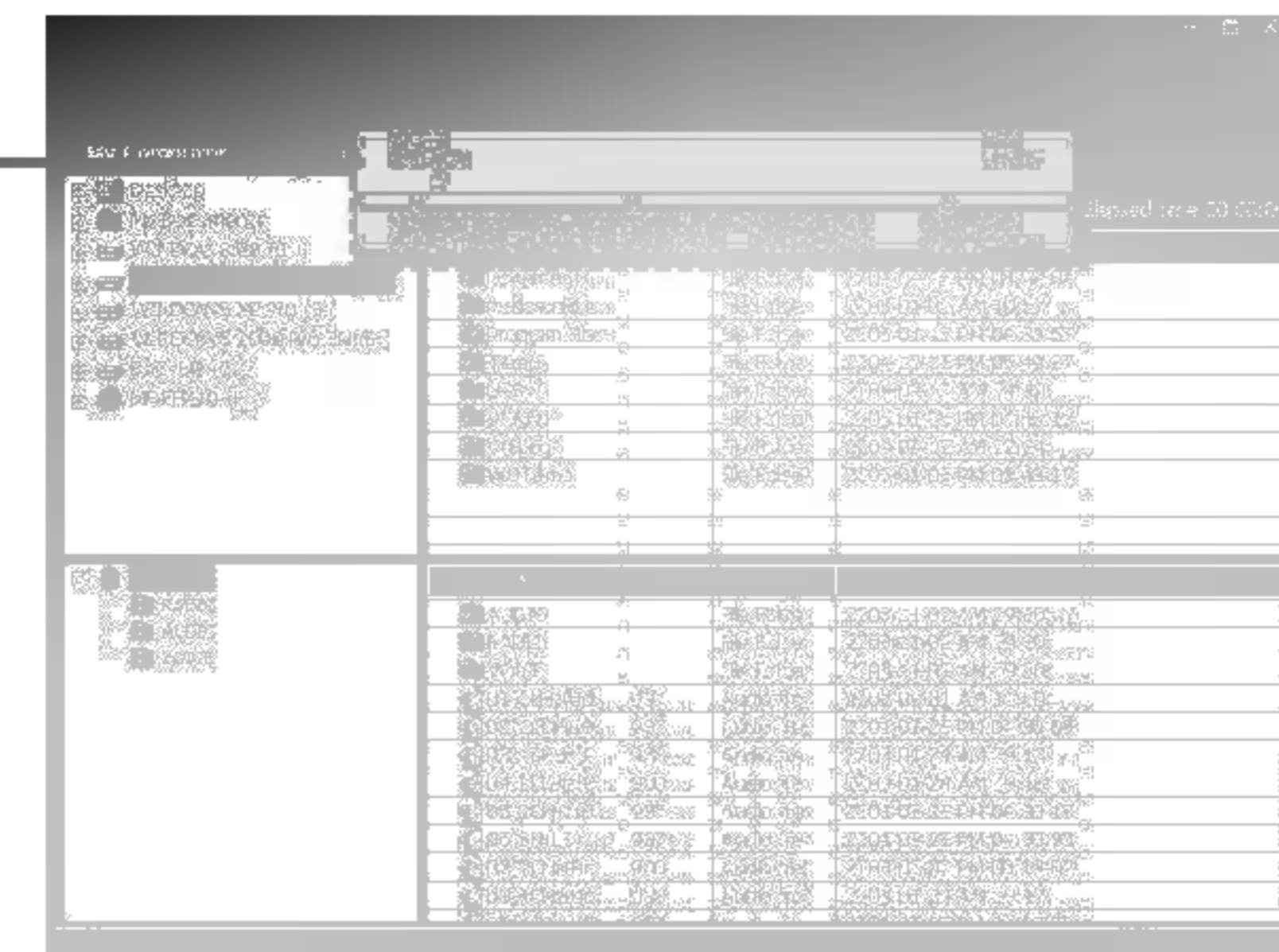


HELP

This menu is help operating MP3 Explorer and explains about the player.

Refer to operating MP3 Explorer

HELP menu

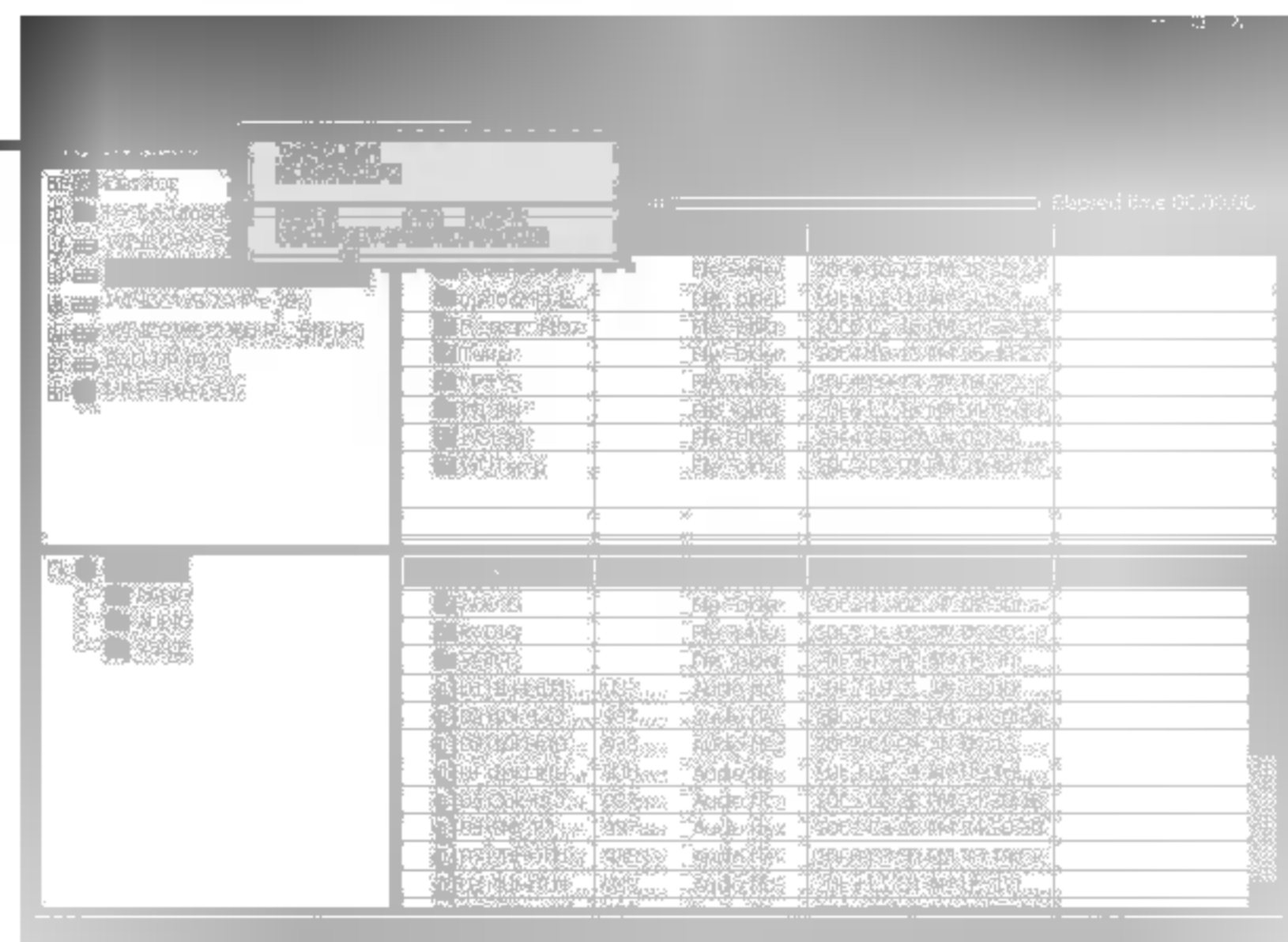


SETTING

Option setting and "Start folder" setting.

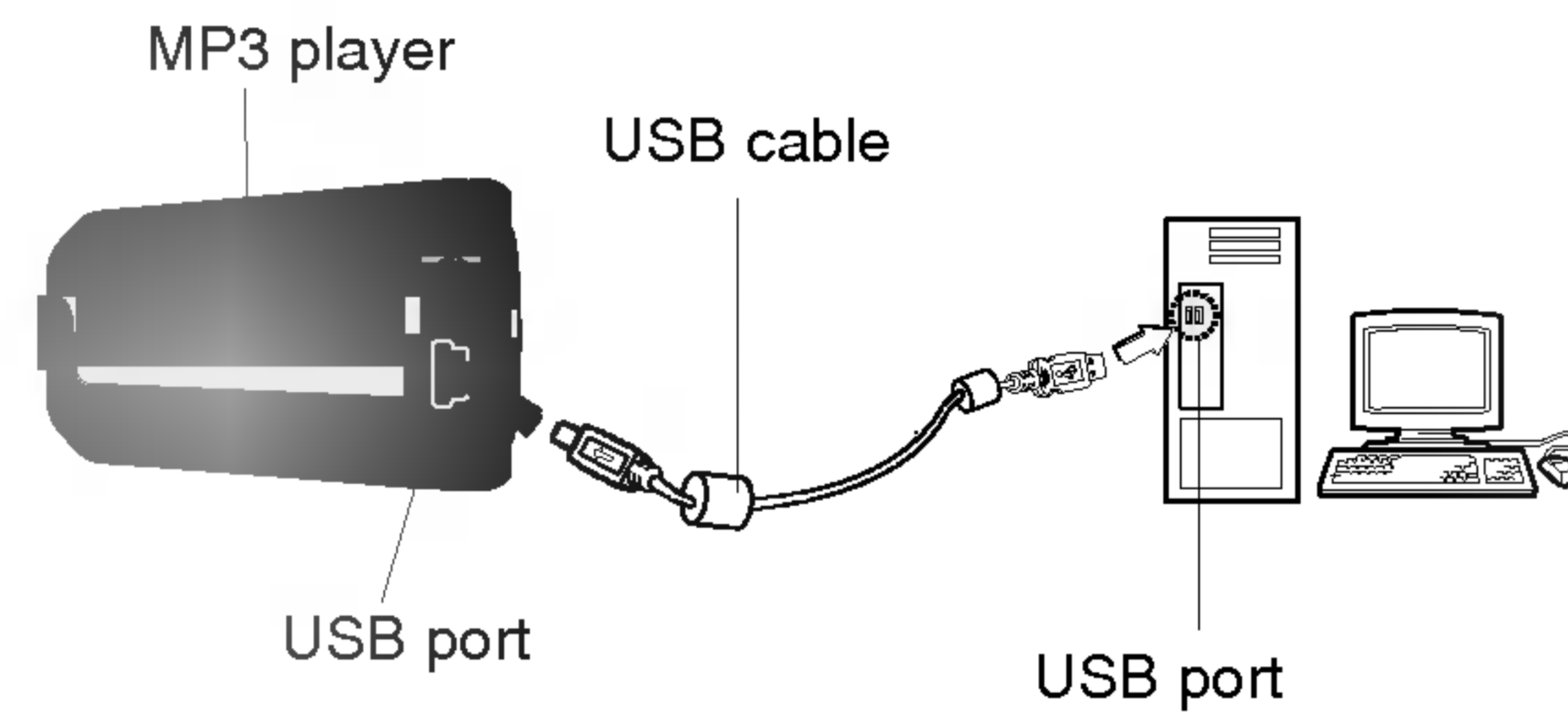
You can set up option and "Start folder" of MP3 Explorer using the SETTING menu.

SETTING menu



Connecting to a computer

The MP3 player supports plug & play. Operating systems after Windows 98SE can automatically recognize and install software without an external installation program.



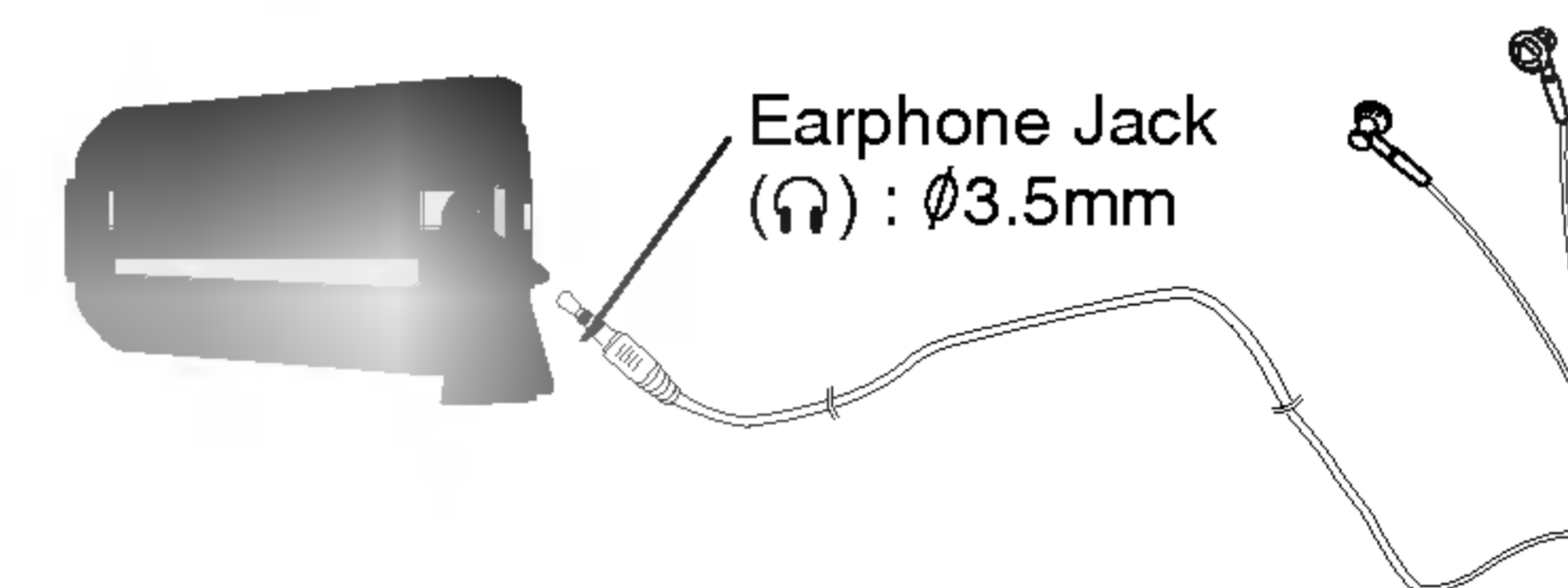
Connect one end with the USB port on the back(front) of your PC and then plug the other end into the Data In/Out terminal of your the player.

☒ Notes

- The Windows 98SE operating system requires an external installation program.(refer to 10 page - 11 page)
- Previous operating systems do not support connection to the player.

Connecting Earphone

Connect the earphone connector to the earphone jack.



Downloading and Uploading

1 Connect one end with the USB cable on the back (or front) of your PC and then plug the other end into USB cable of your MP3 player.

- ⇒ The power will be turned on even if there is no battery. The MP3 player will be in download mode.



An Icon on the LCD indicates ready status for download.

2 Open Windows Explorer on PC.

Removable Disk is display in Windows Explorer.



3 Select the file you want to save, then drag and drop it between PC and the removable disk.

☒ Note

- Don't remove the USB cable while uploading or downloading a file.

Disconnecting to a PC

Wait until you get a message saying that you can safely unplug the device before disconnecting the USB cable.

1 The safe remove icon is in the system tray next to the clock.



(Double Click)

2 Click on the icon to eject the player from the computer and select the "Safely remove" message.

3 There will be a message indicating that it is now safe to disconnect the player.

4 You can now go ahead and unplug the USB cable from the player.

- ⇒ If the PC power is turned off or the USB cable is disconnected while data is being transferred, an HDD error in the player maybe generated.
- ⇒ It may not complete the transmission if the battery volume is not enough during transmitting data.

Power ON

Press PLAY/PAUSE button for 2 seconds after checking the Hold Off status.

Power OFF

Press PLAY/PAUSE button for 2 seconds after checking the Hold Off status.



Adjust VOLUME

You can adjust the volume by pushing the JOG in the direction of the volume (-/+).


The volume level can be adjusted by 40 steps. (MIN ↔ 01 ↔ ... ↔ 39 ↔ MAX)




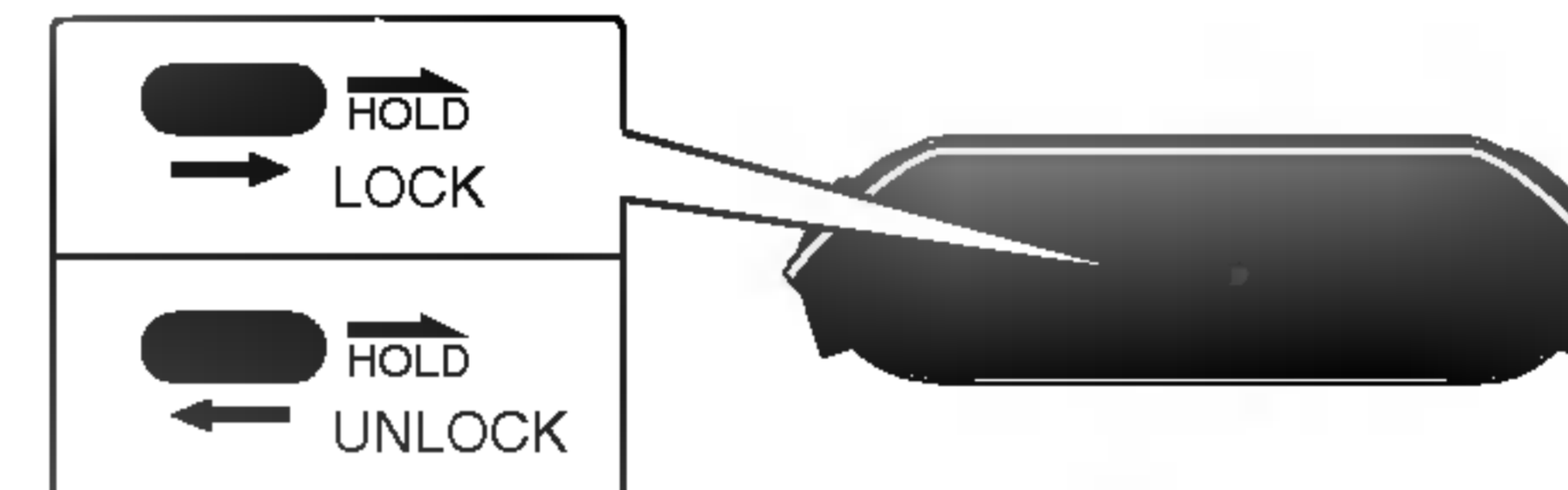
Hold Function

This function locks the main unit to prevent it from operating when you accidentally press a button.

Unlock it before operating.

Push Hold Switch to lock position,  appears in the LCD and all key operations will be disabled.

Push Hold Switch to unlock position,  disappears in the LCD and all key operations will be enabled.



To Play files

Confirm audio mode after turning the power on. Press the **PLAY/PAUSE** button to display the played time with L/R level and start play.



To Pause files

Press the **PLAY/PAUSE** button during file playing.

To Skip the next (previous) files

Push **JOG** in the direction of the **FF**(▶▶) to select the next file.

Push **JOG** in the direction of the **REW**(◀◀) to select the previous file.



To return the beginning of the current file

Push **JOG** in the direction of the **REW**(◀◀) during file playing.

⇒ If playing times is in less than 5 seconds and then this function is not operated.

To play rewind search or fast forward search the files

Push and hold **JOG** in the direction of the **REW/FF** (◀◀/▶▶) to search and play the desired section.

To select the Repeat sections

Press the **A↔B** button while playing to start marking.

A blinking **A**(A) will be displayed on the LCD.

Press the **A↔B** button again to end the

marked passages. The indicator (A) will be displayed and the marked section will be played repeatedly.

Press the **A↔B** button again to cancel the repeat.



Repeat Function

You can choose between 7 fixed Repeat mode.

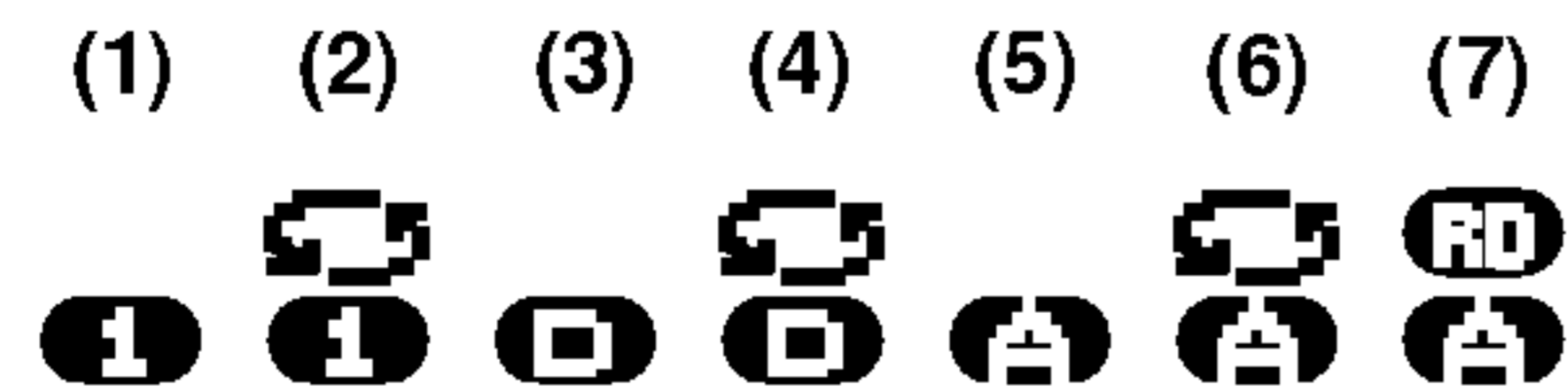
1 Press and hold the REC button during the playback or pause.

2 Repeat step 1 and select the desired mode.



- ⇒ **(1) REPEAT OFF:** Plays current file and automatically stops.
- ⇒ **(2) REPEAT 1 :** Repeats the current file until stopped
- ⇒ **(3) Plays Folder:** Plays all files in the current folder and automatically stops.
- ⇒ **(4) Folder Repeat:** Repeats all files in the current folder until stopped.
- ⇒ **(5) All:** Plays all files in all folders and automatically stops.
- ⇒ **(6) All Repeat:** Repeats all files in all folders until stopped.
- ⇒ **(7) Random:** Randomly plays all files and until stopped.

⇒ The repeat options can be changed while playing. The LCD will display the information below.



Book Mark Function

If you set Book Mark function during file playing, you can search the setting point of the track automatically.

1 Select the setting point you want during file playing, press and hold the A↔B (B.MARK) button for about 2 seconds.



“□□” appears in the LCD.

2 Press A↔B (B.MARK) button briefly once during other file playing.

Automatically, the player searches and plays from the setting point.

3 To cancel Book Mark function, press the A↔B (B.MARK) button for about 2 seconds.

“□□” disappears in the LCD.

Note

- Setting point of Book Mark is not deleted even if POWER OFF but it became to cancel when connecting to USB cable or deleting currently file.

Browse

1 Press JOG once to display the file or folder.



2 Select the file or folder that you want to play using the JOG.

- ⇒ The file or folder appears on the display window.
- ⇒ If you select the folder that push the JOG in the direction of right so it move to sub folder or files in the current folder.
- ⇒ Push the JOG in the direction of left to cancel or it move to higher folder.



3 Press PLAY/PAUSE.

- ⇒ The selected file will be played.

Delete Files

1 Press JOG on stop mode.

2 Select a file you want to delete.

3 Press and hold JOG, press PLAY/PAUSE.

[Delete File]
MUSIC 001. mp3
YES : ►|| NO : ◀◀

- ⇒ Push the JOG in the direction of left to cancel.
- ⇒ You can't delete folder in this function.

Menu configuration

1 Press and hold JOG once to display the menu for the current mode.



2 Select the desired menu using the JOG.

3 Detailed descriptions of the sub menus are explained in the functions section (refer to 27 page - 29 page).

4 Press the JOG once to confirm menu selection and display the sub.

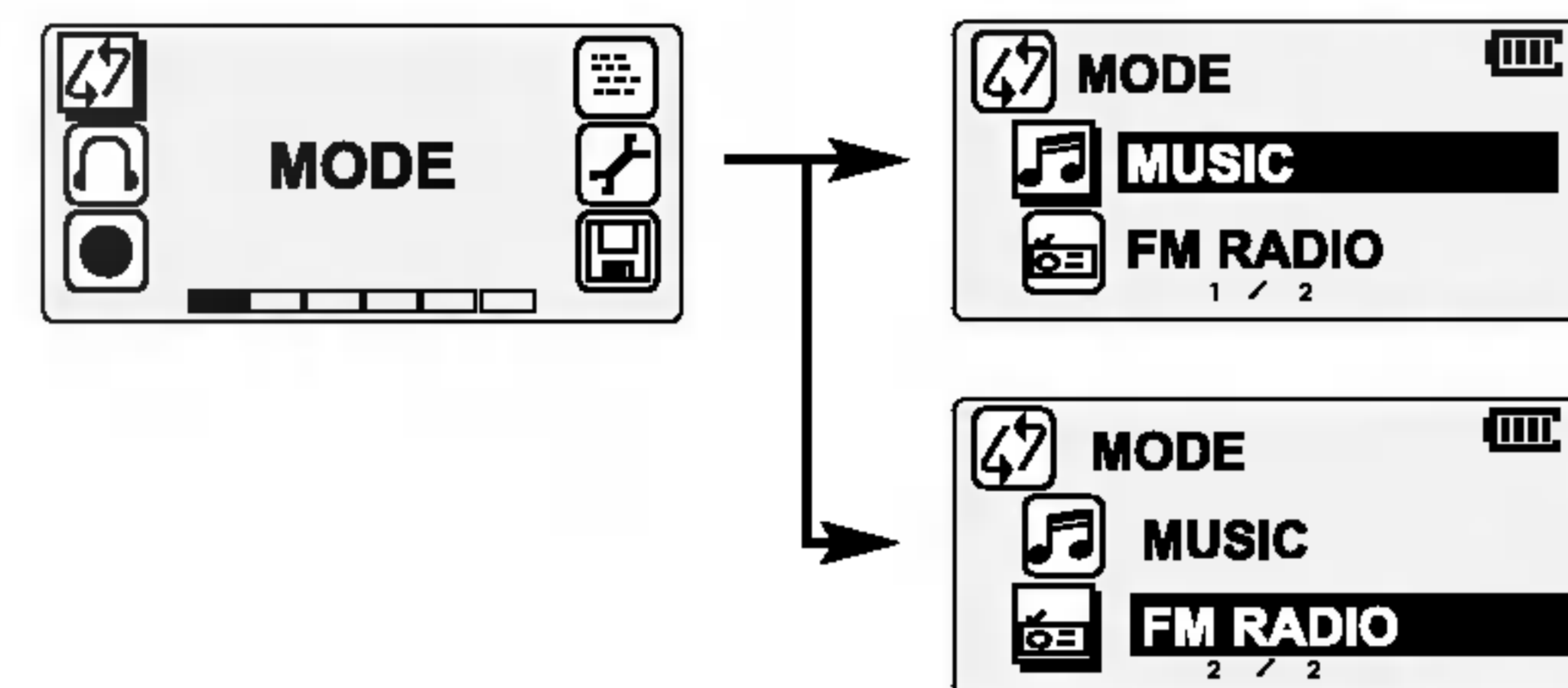


5 Select the desired sub menu using the JOG.

6 Press the JOG to save the selection.

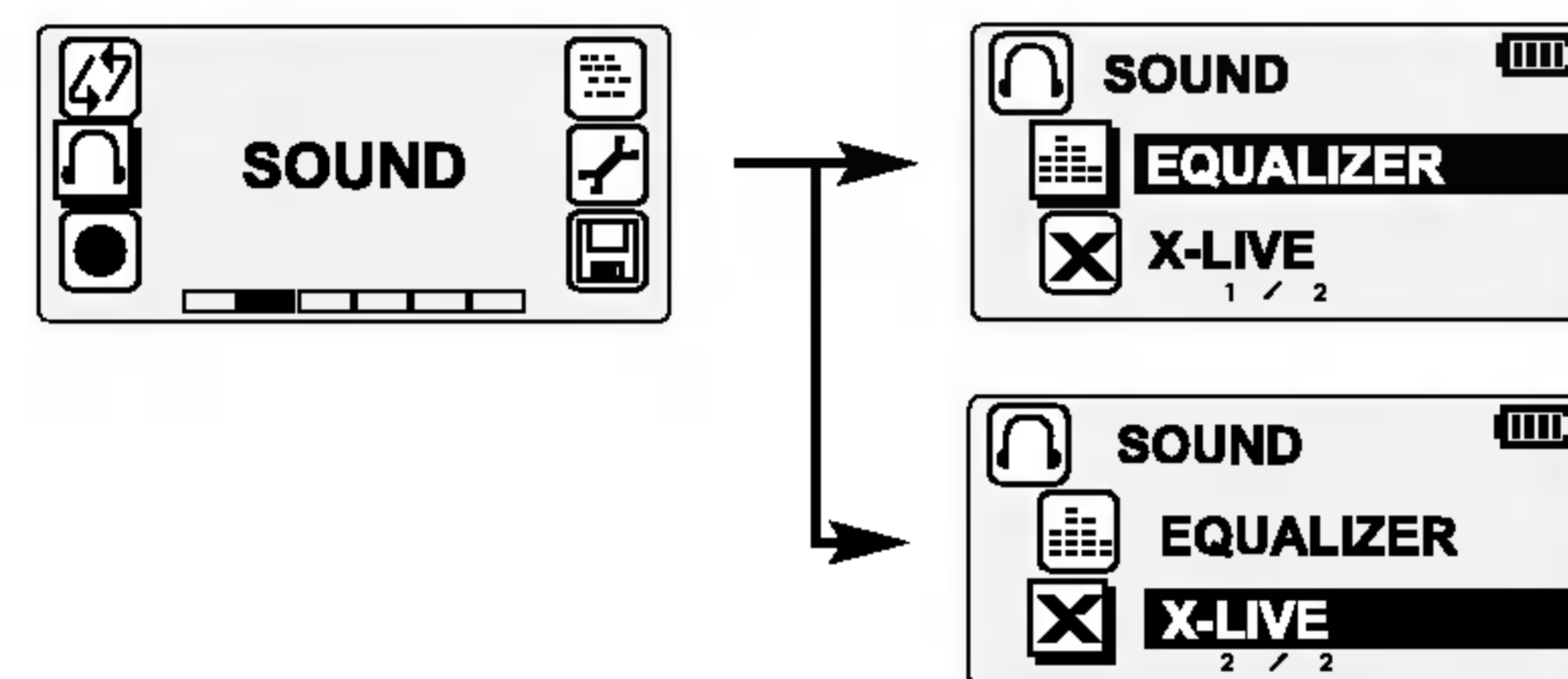
- ⇒ Push the JOG in the direction of left to cancel.
- ⇒ The operation will be canceled automatically if no key is pressed within 20 seconds.

Setting the MODE



- You can select the desired mode (MUSIC or FM RADIO).

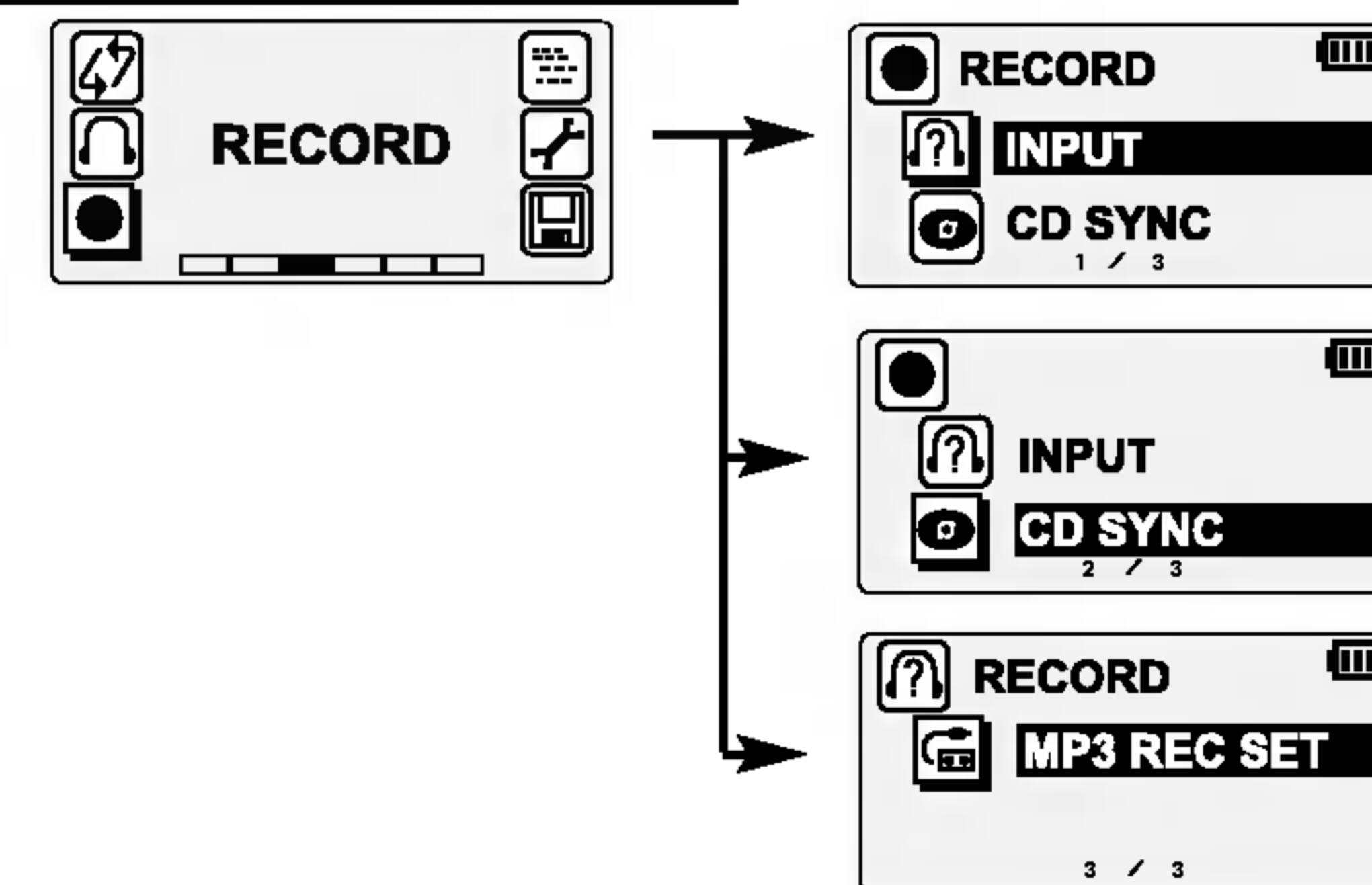
Setting the SOUND



- FLAT : without equalizer control.
- ROCK : for better beat expression.
- JAZZ : for better expression of voice and instrument characteristics.
- CLASSIC :for delicate expression.
- POP : for better high and low key expression.
- USER: Select user and set the Bass and Treble. (50Hz, 200Hz, 1KHz, 3KHz, 14KHz) can be adjusted from +2dB to -12dB

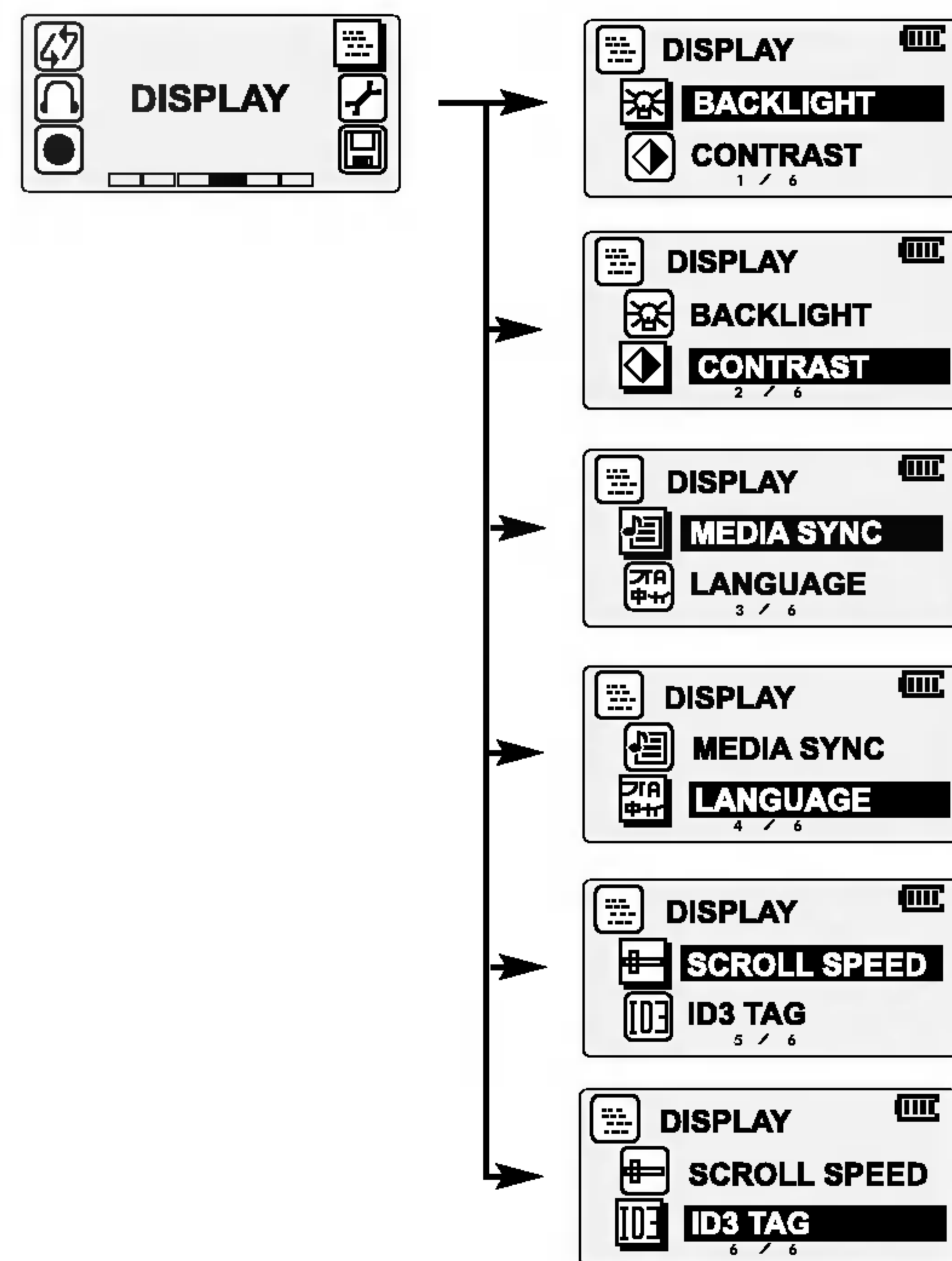
- X-LIVE : Powerful realism with strong sound quality.
 - ⇨ FLAT/ROCK/JAZZ/CLASSIC/POP/USER options are supported.
 - ⇨ Selection must be confirmed by pressing the JOG again. The operation will otherwise be canceled.
 - ⇨ You can select X-LIVE ON or OFF in the X-LIVE Mode.
 - ⇨ The equalizer option can be changed while playing.
 - ⇨ The LCD will display the current mode.
 - ⇨ When you select X-LIVE ON and then equalizer became to cancel.

To select the Record setting



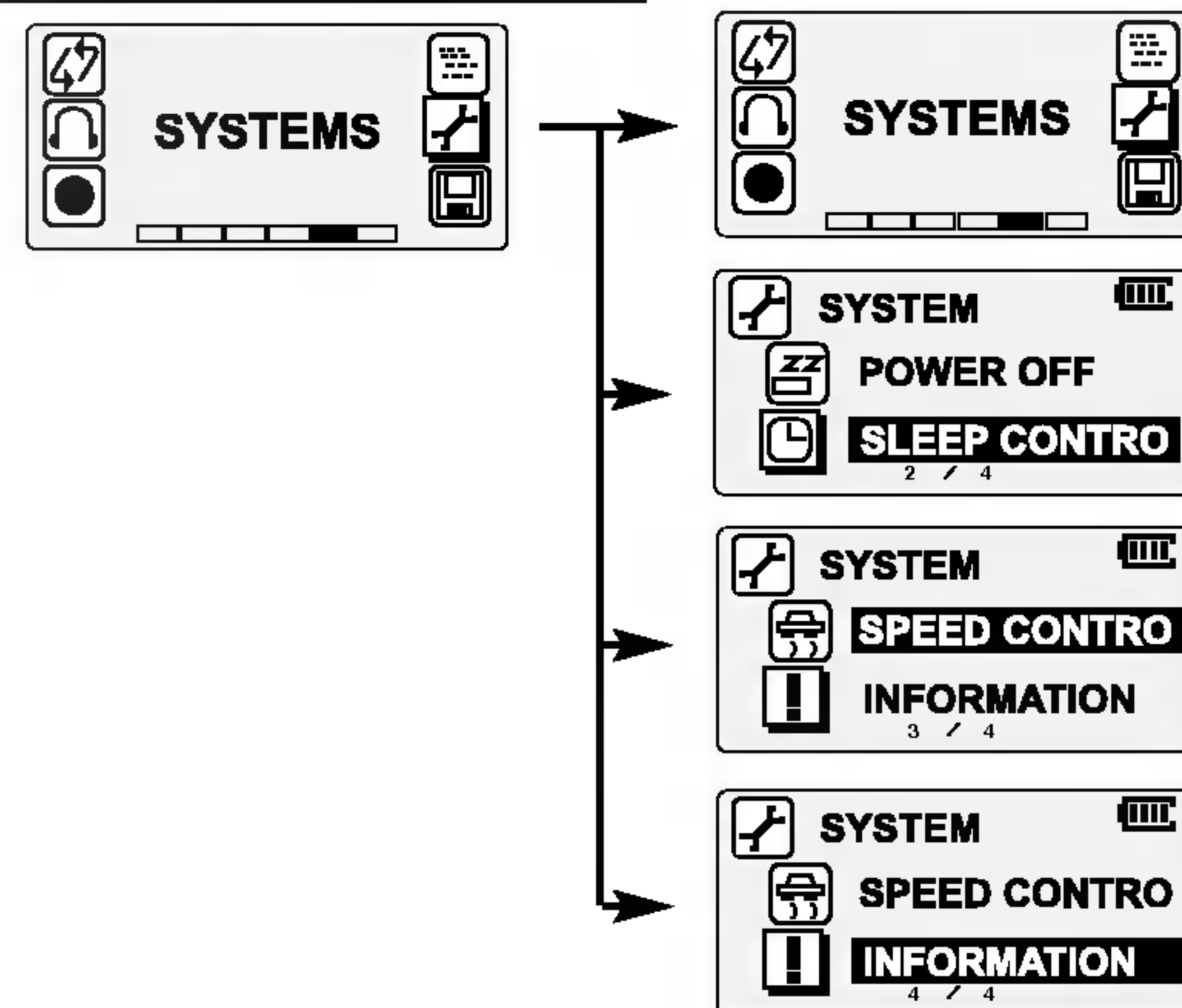
- **INPUT:** You can select Record mode (LINE IN or MIC)
- **CD SYNC :**It is recorded each FILE when you record CD by LINE IN recording
- **MP3 REC SET :** You can adjust the quality of recording sound by LINE IN, FM RADIO or VOICE

To select the DISPLAY setting



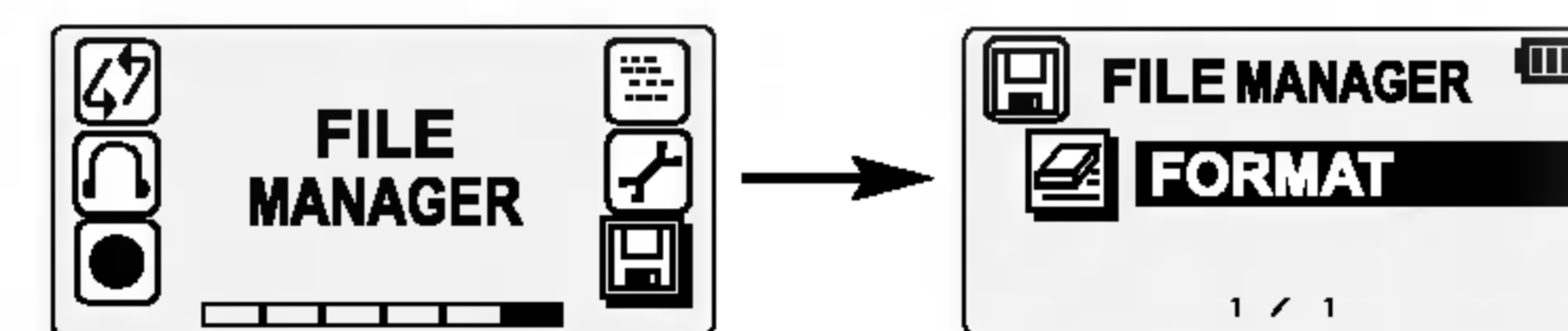
- **BACKLIGHT** : Whenever any button is pressed, the LCD becomes bright.
This function can set time of brightness displayed in the LCD.
OFF ↔ 10sec ↔ 30sec ↔ 1min ↔ 3min
 - **CONTRAST** : This function can adjust lightening or darkening the LCD.
00 ↔ 01 ↔ ... ↔ 14 ↔ 15
 - **MEDIA SYNC**: The lyric of the MP3 file will be shown in the display window.
 - **LANGUAGE** : You can select desired language.
한글(Hungul) ENGLISH 日本語 中文简体 繁體中文 Русский FRANÇAIS
 - **SCROLL SPEED** : This function adjusts the speed of the file information which passed by the LCD.
OFF ↔ 1X ↔ 2X ↔ 4X
 - **ID3**: The information (Title, Artist or Album) of the MP3 or WMA file will be shown in the display window.
- ⇒ Increasing backlight time reduces battery life.

To select the SYSTEM setting



- **POWER OFF** : It controls automatically turned off time.
OFF ↔ 30sec ↔ 1min ↔ 3min ↔ 5min
⇒ This function is operated in pause mode.
- **SLEEP CONTROL** : When the sleep timer is used, the power is automatically turned off after the specified time has elapsed.
OFF ↔ 15min ↔ 30min ↔ 45min ↔ 60min
⇒ If SLEEP CONTROL reach to the sleep time, player is turned off and SLEEP CONTROL is turned off.
- **SPEED CONTROL** : It controls playing speed.
0.8X ↔ 0.9X ↔ 1.0X ↔ 1.2X ↔ 1.6X
- **INFORMATION** : FIRMWARE VERSION and MEMORY information of MP3 player will be shown in the display window.

To select the FILE setting



- **FORMAT MANAGER** : This function is for all file deleted
⇒ You can choose speed of format (QUICK or NORMAL).

Notes

NORMAL FORMAT : NORMAL FORMAT support to restore function of memory
Do not use to many times this function.
Use this function when enough battery.

NORMAL FORMAT time

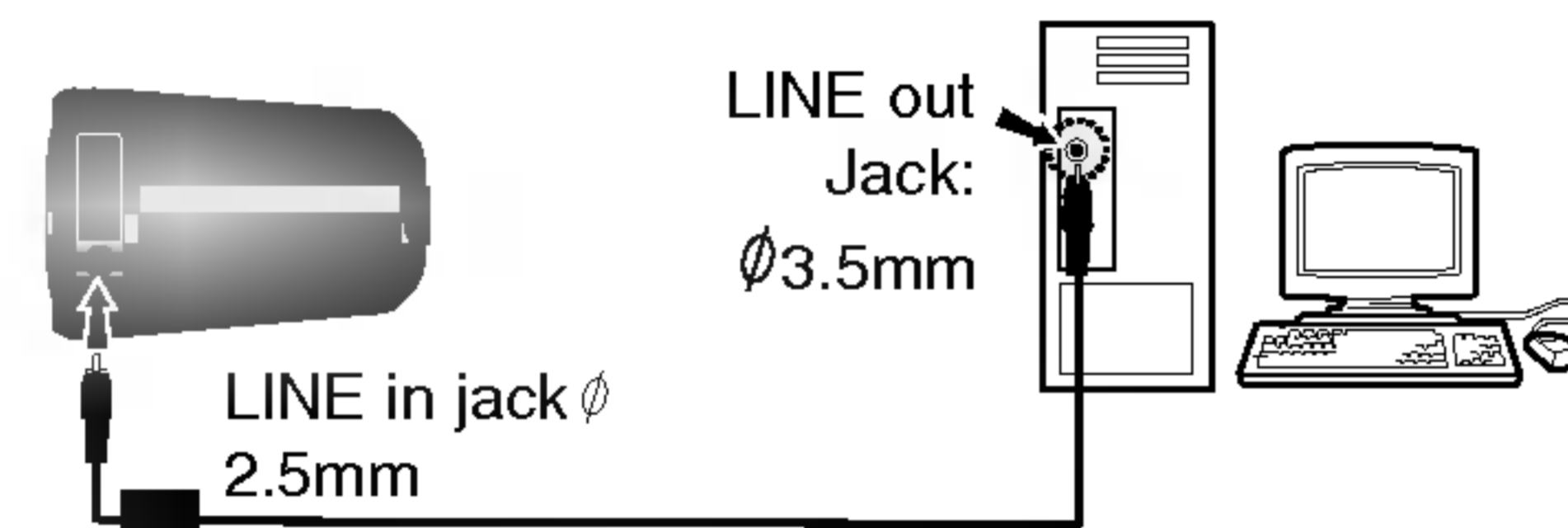
- 128M : 6 min
- 256M : 12 min
- 512M : 23 min

LINE-IN Recording

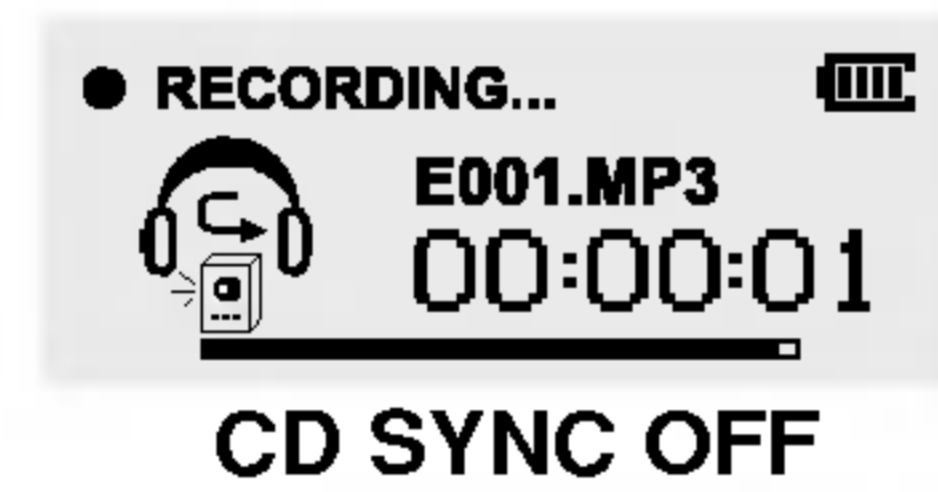
1 Connect an external audio output to the player LINE-IN port.

2 Press the REC button.

- ⇒ Recording is prepared.
- ⇒ Push the JOG in the direction of left to cancel on the waiting mode.



3 Press the REC button again. Start recording to a new file in the AUDIO folder.



- ⇒ Only LINE-IN input is supported. (Use the Record mode for LINE-IN).
- ⇒ A maximum of 999 files with arbitrary names are supported.
- ⇒ When CD SYNC is On, player detects the sound input from the LINE-IN input and recognizes blanks between tracks to save the tracks separately as individual files.
- ⇒ When the recording is started, the volume level is automatically switched to the default level.
- ⇒ when the recording is on ready, you can record with optimum level if you adjust the volume level so as to become a volume level in the normal playing.

To pause recording

Press **PLAY/PAUSE** button.

To stop recording

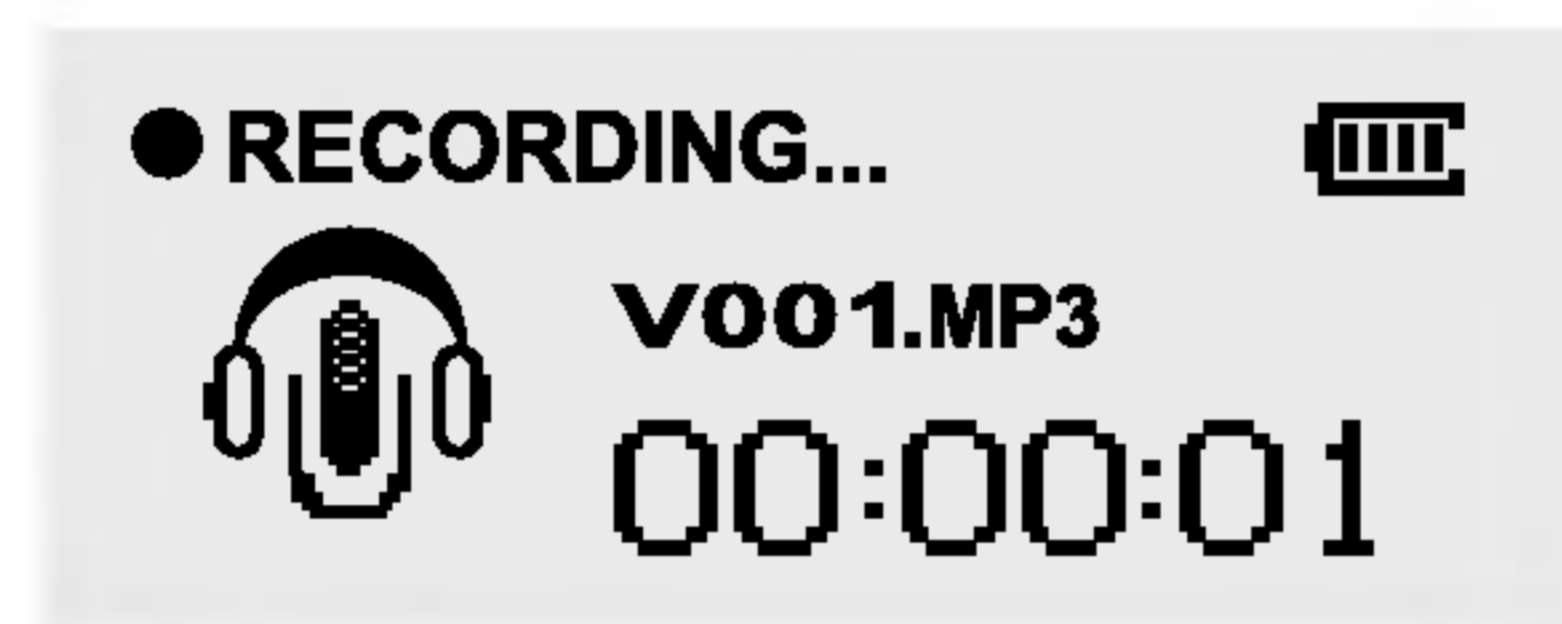
Press **REC** button.

Voice Recording

1 Press the REC button.

⇒ Recording is prepared.

2 Press the REC button again. Start the voice recording to the Microphone (MIC) on the main unit.



3 To stop the voice recording, press REC button.

The voice recording is completed then saving in VOICE folder.

Notes

- The recorded files are stored V001.MP3, V002.MP3, V003.MP3.... in order.
- If the "MEMORY FULL" appears in the LCD, it return to before mode.
- If the battery power is insufficient or reach to the sleep time, while recording this player will automatically save the files and powered off.

Notes

- BPS : When encoding music into an MP3 file, you can select one of the following bit rates
- A higher Bit Rate increases the quality but reduces recording time.
- Saved within each folder in case of VOICE, LINE and FM recording.

	128MB	256MB	512MB
16kbps	16 hour	34 hour	70 hour
24kbps	10 hour	22 hour	46 hour
32kbps	7 hour 30 min	16 hour 30 min	34 hour 30 min
40kbps	6 hour	13 hour	28 hour
48kbps	5 hour 40 min	11 hour 40 min	23 hour 40 min
56kbps	4 hour 40 min	9 hour 30 min	19 hour 40 min
64kbps	3 hour 40 min	8 hour 30 min	17 hour 30 min
80kbps	2 hour 50 min	6 hour 40 min	13 hour 40 min
96kbps	2 hour 30 min	5 hour 30 min	11 hour 30 min
112kbps	1 hour 50 min	4 hour 40 min	9 hour 40 min
128kbps	1 hour 40 min	3 hour 50 min	8 hour 40 min
160kbps	1 hour	3 hour	6 hour 50 min
192kbps	50 min	2 hour 50 min	5 hour 50 min

Listening to the radio frequency

- 1 Press and hold the JOG and select the FM RADIO in MODE menu using the JOG.
The FM radio is selected.
- 2 Push the JOG left or right to turn in the desired station.



Manual Tuning

Push the JOG left or right repeatedly.

Auto Tuning



Push and hold left or right.
Automatically scans and turns to the next available station.

Notes

- If you listen to FM radio, insert the earphone into earphone jack.
The earphone play the part of the antenna.
- If you press the PLAY/PAUSE button during FM radio receiving, the sound is muted.
- EQ function is not operated in FM mode.

You can preset 20 stations on the radio.

Auto memory

All available radio stations with sufficient signal strength will be stored automatically.



- Press the REC button for more than 1 second during FM receiving.
 - ⇒ If you resetting the Auto memory and before to save memory is deleted
 - ⇒ Press PLAY/PAUSE or JOG to cancel

Radio recording

- Press the REC button during FM receiving.
 - ⇒ Recording is prepared.
- Press the REC button again



- To stop recording, press REC button again.
The radio recording is completed.

Notes

- The recorded files are stored F001.MP3, F002.MP3, F003.MP3.... in order.
- If the "MEMORY FULL" appears in the LCD, it return to before mode.
- If you are in the area of low sensitivity, radio receiving may not be good.

Presetting the radio frequency

- 1 Push and hold JOG left or right until the frequency indication starts to change, then release.
- 2 Repeat step 1 if necessary until you find the desired radio frequency.
- 3 Press the A↔B button for more than 1 second. A preset number will be stored in the LCD. You can select preset number using the JOG



- 4 Press A↔B button for more than 1 second again. If you press A↔B once, current frequency will not be saved.

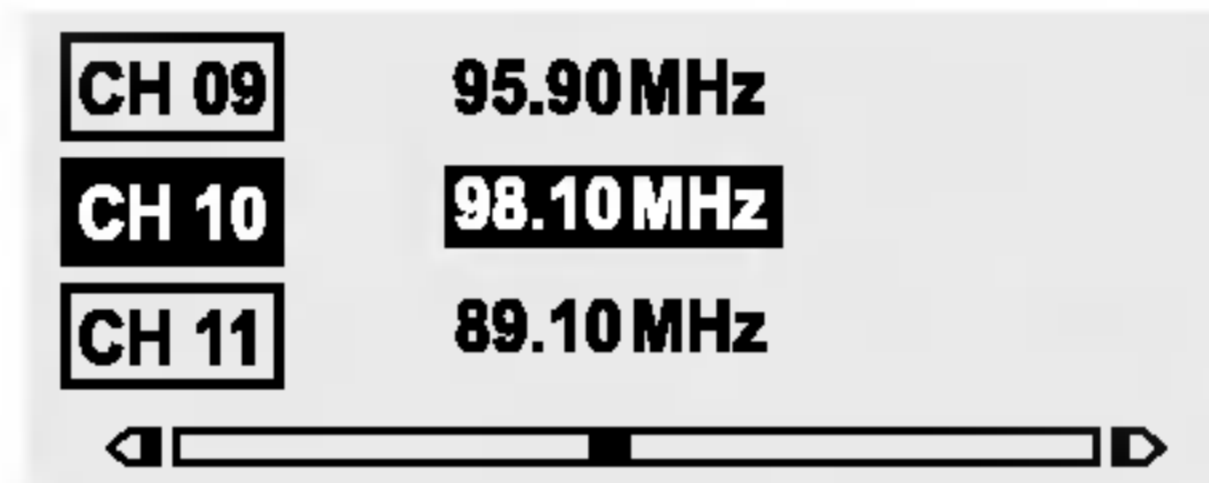
- 5 Repeat steps 1 to 4 to store other frequency. To recall preset numbers Press the A↔B button.



FM BROWSE

Refer to BROWSE in 26 page

- 1 Press JOG in the FM RADIO mode.



- 2 Select a FM radio frequency you want using the JOG.
 - FF(▶▶)/REW(◀◀) : 3 step
 - +/- : 1 step
- 3 Press PLAY/PAUSE.
 - ⇒ You can listen to the selected frequency.
 - ⇒ The operation will be canceled automatically if no key is pressed within 20 seconds.

Erasing a preset radio frequency

- 1 Press JOG in the FM RADIO mode.
- 2 Select a FM radio frequency you want to delete.
- 3 Press and hold JOG, press PLAY/PAUSE.



- ⇒ Push the JOG in the direction of left to cancel
- ⇒ This function is possible to operate in FM RADIO MODE.
- ⇒ If you press PLAY/PAUSE, you can listen to currently frequency
- ⇒ If you select blank PRESET CHANNEL and FM RADIO MODE is not operated.

Problem	solution
Power cannot be turned on	<ul style="list-style-type: none"> • Check the volume of battery
LCD screen is too dark	<ul style="list-style-type: none"> • Check the brightness setting of the LCD screen.
No sound or poor sound quality	<ul style="list-style-type: none"> • Check that if connectors of the earphones are clean. • Check that the music files on this device are in the correct format and are not corrupt.
Buttons will not function	<ul style="list-style-type: none"> • Check whether the Hold function is activated.
Text in LCD distorted	<ul style="list-style-type: none"> • Check the correct language setting.
Heavy noise in radio reception	<ul style="list-style-type: none"> • See if earphones are connected. The earphones as an antenna for radio reception. • If the earphones are connected, try moving direction of the product and earphones.
Files are not download	<ul style="list-style-type: none"> • See if the USB cable os correctly connected. • See if there is not enough battery charge.
When player is turned on, automatically format	<ul style="list-style-type: none"> • What might appear to be a malfunction in your player, may just be the result of slight missoperation. In the case of a malfunction, player will automatically formatting. And all files are deleted
Disconnect USB cable during the download or upload	<ul style="list-style-type: none"> • Folders are not deleted. And format your player using player in the format mode.

Designs and specifications are subject to change without notice for improvement.

Memory Capacity	MF-FE411 : 128 MB MF-FE412 : 256 MB MF-FE415 : 512 MB
Battery	AAA type (1EA)
Dimensions (WxHxD)	85x28x23mm
Weight	30g (without battery)
Operating Voltage	1.5V DC
Earphone Output Power	5mW+5mW 10mW+10mW (In USER mode of EQ only)
S/N Ratio	85dB (JIS-A Filter)
Channel Separation	38dB (1kHz)
Power Source	Alkaline AAA size battery 1EA
FM radio	
Frequency Range	87.50MHz~108.00MHz
S/N Ratio	38 dB
Channel Separation	25 dB (1KHz)
Antenna	Earphone Antenna
Bite Rate (kbps)/	MPEG(1/2/2.5) Layer3
Sampling Rate (kHz)	WMA 32kbps~192kbps/ 32kHz~44.1kHz



P/NO:3834RL0011W