Getting Started

NOMAD Jukebox

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Version 2.4, June 2000

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ATTENTION: Ce périphérique est destiné à être connecté par l'utilisateur à un ordinateur IBM AT certifié ou listé CSA/TUV/UL ou compatible, à l'intérieur de la zone d'accès définie par le fabricant. Consulter le mode d'emploi/guide d'installation et/ou le fabricant de l'appareil pour vérifier ou confirmer qu'il est possible de connecter d'autres périphériques à votre sytème.

Notice for the USA

FCC Part 15: 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, this notice is not a 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 one or more of the following measures:

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

To comply with the limits for the Class B digital device, pursuant to Part 15 of the FCC Rules, this device must be installed in computer equipment certified to comply with the Class B limits.

All cables used to connect the computer and peripherals must be shielded and grounded. Operation with non-certified computers or non-shielded cables may result in interference to radio or television reception.

Modifications

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Notice for Canada

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Compliance

This product conforms to the following Council Directive:

❑ Directive 89/336/EEC, 92/31/EEC (EMC), 73/23/EEC (LVD)

Declaration of Conformity

According to the FCC96 208 and ET95-19,

Manufacturer/Importer's Name:*Creative Labs, Inc.*

Manufacturer/Importer's Address: *1901 McCarthy Boulevard Milpitas, CA. 95035 United States Tel: (408) 428-6600*

declares under its sole responsibility that the product

Trade Name: *Creative Labs*

Model Numbers: *DAP-6G01/DAP-6G02*

has been tested according to the FCC / CISPR22/85 requirement for Class B devices and found compliant with the following standards:

EMI/EMC: ANSI C63.4 1992, FCC Part 15 Subpart B Complies with Canadian ICES-003 Class B.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesirable operation.

Ce matériel est conforme à la section 15 des régles FCC. Son Fonctionnement est soumis aux deux conditions suivantes:

1. Le matériel ne peut étre source D'interférences et
2. Doit accepter toutes les interférences reques, Y compris celles pouvant provoquer un fonctionnement indésirable.

Supplementary Information:
DAP-6G01 == Standard Model
DAP-6G02 == Europe Model

DS-6401 is the docking station model.

Compliance Manager
Creative Labs, Inc.
March 30, 2000

Contents

Appendixes

A   An MP3 Primer

B   Technical Specifications & Troubleshooting

C   Important Safety Instructions

Introduction

Your NOMAD Jukebox

The Creative NOMAD Jukebox is a USB, multi-format portable audio player/recorder.

This new light-weight (14oz. without batteries) digital audio player comes in the size of a CD disc player and features high capacity storage capabilities with 6 GB of built-in storage that holds an entire music collection (over 150 albums). It features a Line-In for analog recording from external sources and dual Line-Out connections ideal for connecting a four-speaker system such as Cambridge SoundWorks FourPointSurround FPS2000 Digital.

Unlike other hardware-based solutions, the NOMAD Jukebox features an onboard real-time digital signal processor (DSP) and real-time effects processor for superior audio playback and customization. A Headphone-Out jack supports headphone spatialization and equalizer effects. This SDMI-capable portable digital audio player supports multiple formats including MP3 and WAV file formats. The NOMAD Jukebox supports downloadable features including new effects algorithms, security features, and additional formats e.g. Windows Media Audio (WMA).

Software

NOMAD Jukebox comes bundled with the following:

❑ Creative PlayCenter 2, which manages your favorite digital audio files on your computer and NOMAD Jukebox. It is also an integrated encoder for ripping audio CD tracks into compressed digital audio files.

❑ Creative LAVA! Player, which allows you to create ultra-high quality LAVA! Music Videos to accompany your MP3 files.

❑ More than 20 hours of preloaded music and audio book content from Naxos, Soundbuzz.com, and others.

You can also download more MP3 files through worldwide web sites or online services to play them back on your NOMAD Jukebox.

For more details on MP3, refer to *Appendix A, "An MP3 Primer"*.

System Requirements

For PC:

- ❏ Microsoft® Windows® 98 and Windows® 2000
- ❏ 200 MHz or higher Pentium® (Pentium II or better recommended for MP3 encoding)
- ❏ SVGA graphics adapter (256 colours, 800 x 600) or higher resolution and color display
- ❏ Internet connection for Internet content downloading or CDDB[2] support (any charges incurred are the responsibility of the end user)
- ❏ 32 MB RAM (64 MB recommended)
- ❏ USB port
- ❏ 12 MB free hard disk space (more for audio content storage)
- ❏ Installed mouse
- ❏ CD-ROM drive with digital audio extraction support

For Mac®

- ❏ Mac OS version 8.6 or higher
- ❏ iMac™, G3 or higher
- ❏ Internet connection for Internet content downloading or CDDB[2] support (any charges incurred are the responsibility of the end user)
- ❏ 32 MB RAM (64 MB recommended)

- ❏ USB port
- ❏ USB Manager version 1.2 or higher
- ❏ 12 MB free hard disk space (more for audio content storage)

Document Conventions

The following typographical conventions are used throughout this document.

Table i: *Text conventions.*

Text Elements	Use
bold	Text that must be entered exactly as it appears.
italic	Title of a book or a placeholder. A placeholder represents information that you must provide.
UPPERCASE	Directory name, file name, or acronym.
< >	Symbols, letters, and key names on the keyboard.

Table ii: *Icons.*

This symbol	Indicates
	A note.
	A warning.
	A tip.

1

C h a p t e r

Your NOMAD Jukebox Package

In The Package

Your NOMAD Jukebox package contains the following items:

The connector may look different, depending on the country that you purchased NOMAD Jukebox.

(1) NOMAD Jukebox

(2) Power adapter and cable

(3) Backphones

(4) 2 sets of 4 rechargeable AA NiMH batteries

(5) USB cable

(6) Software installation CD

(7) Quick Start guide

(8) Quick Reference card

(9) Protective pouch for NOMAD Jukebox
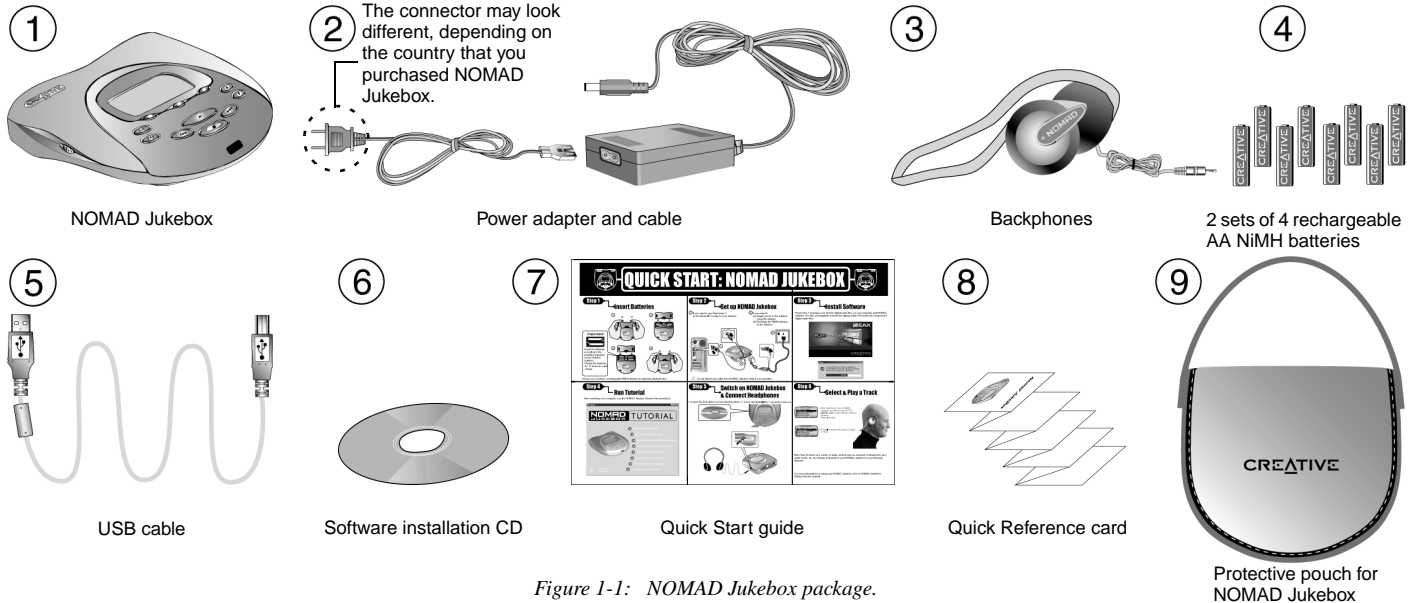
Figure 1-1:   NOMAD Jukebox package.

For the latest list of optional accessories, visit NOMAD World at http://www.nomadworld.com.

Location Of Controls

NOMAD Jukebox - Front View

Soft buttons
Press to execute the labels directly above them in the LCD.

Library button
This is the "Home" key. Press to switch between the LIBRARY CATEGORIES screen and the ACTIVE QUEUE LIST screen.

EAX and System button
Press to display the full list of EAX & System Settings which can be adjusted.

Skip Backward button
Press to restart audio at the start of the *previous* track in the Play List. The PlayPointer icon indicates the playing track.

Play button/ON
Press to *immediately* play any item selected. A track selected from the Music Library is placed at the top of the ACTIVE QUEUE LIST; a track selected from the ACTIVE QUEUE LIST advances the list to that track and begins playback.

Stop button/PAUSE/OFF
Press once to *pause* playback. Press again to *stop* playback. The PlayPointer returns to the beginning of the track. Press the Play button to resume playback.

LIBRARY CATEGORIES
PLAY LIST
ALBUMS
ARTISTS
GENRES
--- OPEN SEARCH

Screen Title

Main Info

Soft button functions

Scroll Up/Down buttons
These buttons are used for screen navigation e.g. press to move up or down through the items or press and hold to increase the speed of movement through the list. They are also used to move the letter entry position to the left or right indicated by a ^.

Skip Forward button
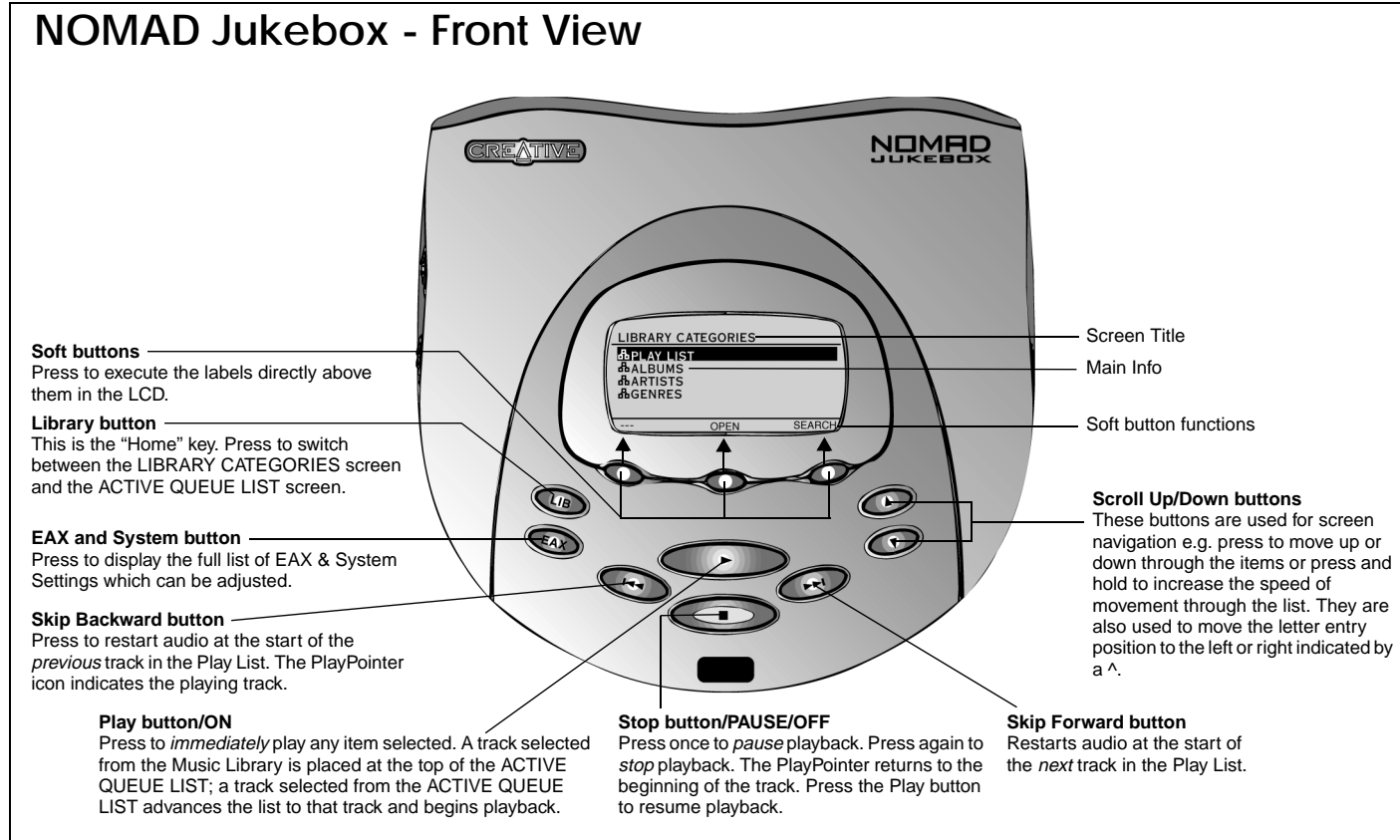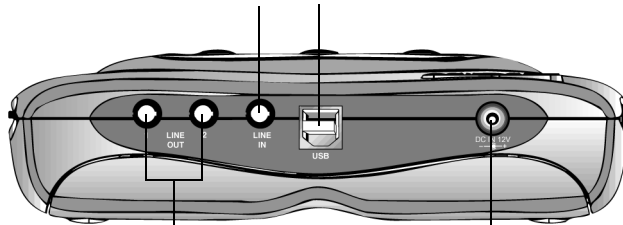Restarts audio at the start of the *next* track in the Play List.

Figure 1-2: Front view of NOMAD Jukebox.

NOMAD Jukebox - Side Views

Line In Jack
Connects to an external
audio source for recording
to NOMAD Jukebox.

USB Port

Line Out Jacks 1 & 2
Connects to a four speaker
system such as Creative
Cambridge SoundWorks
FourPointSurround for
enhanced audio effects.
Note: Line Out Jack 1
connects to front speakers
while Line Out Jack 2
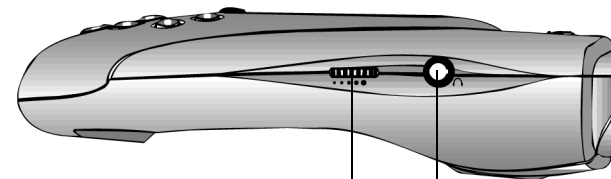connects to rear speakers.

Power Jack
Connects to the supplied
power adapter.
Note: NOMAD Jukebox will
charge the rechargeable
NiMH batteries if the
batteries are in NOMAD
Jukebox regardless of
whether the power is
turned on or off.
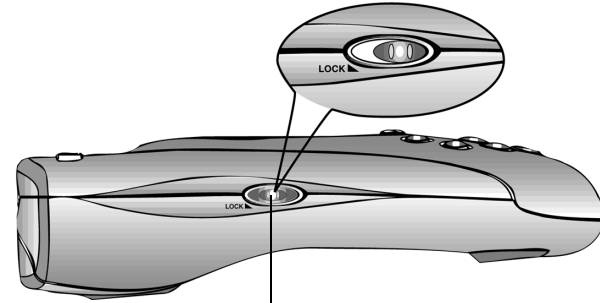
Lock switch
While in the Locked position, the control
buttons cannot be operated.

Volume Control
Controls audio playback volume
through the headphones only.
Note: To control the playback volume of
speakers connected to NOMAD
Jukebox using Line Out Jacks 1 & 2,
adjust the volume control of the
speakers instead.

Headphones Jack

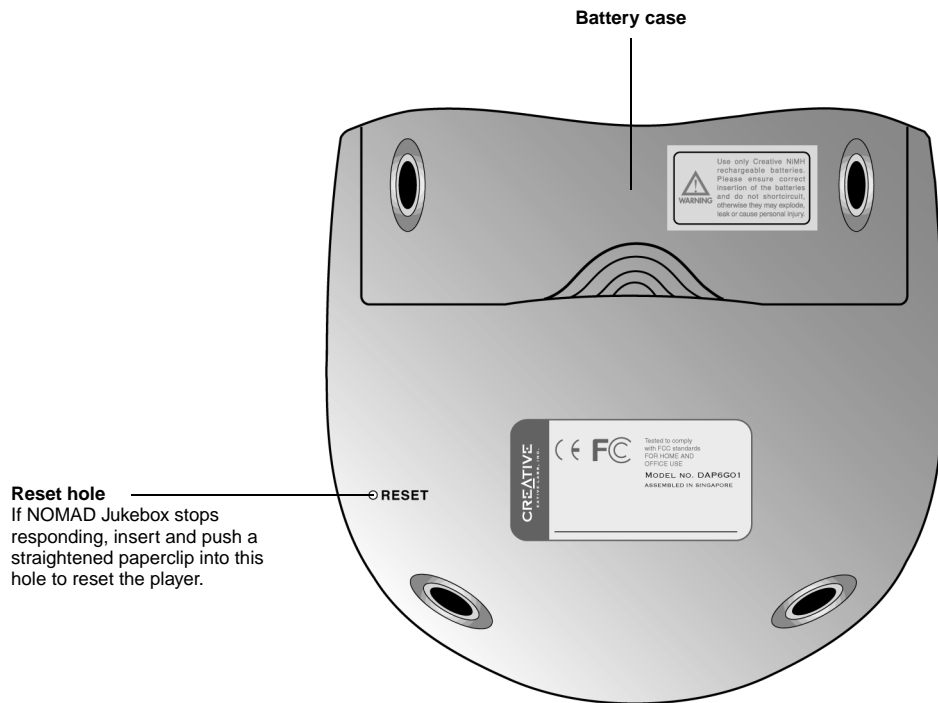*Figure 1-3:   Side views of NOMAD Jukebox.*

NOMAD Jukebox - Rear View

Battery case

Use only Creative NiMH rechargeable batteries. Please ensure correct insertion of the batteries and do not short-circuit, otherwise they may explode, leak or cause personal injury.

⚠ **WARNING**

CREATIVE

(€ FC Tested to comply with FCC standards. FOR HOME AND OFFICE USE

MODEL NO. DAP6GO1

ASSEMBLED IN SINGAPORE

⊘ **RESET**

Reset hole
If NOMAD Jukebox stops responding, insert and push a straightened paperclip into this hole to reset the player.

Figure 1-4:   Rear view of NOMAD Jukebox.

2

Chapter

Setting Up Your NOMAD Jukebox

NOMAD Jukebox is preloaded with more than 20 hours of music so you can start enjoying the songs without connecting your NOMAD Jukebox to a PC. Just follow these steps to listen to the songs immediately:

Step 1: Insert Batteries

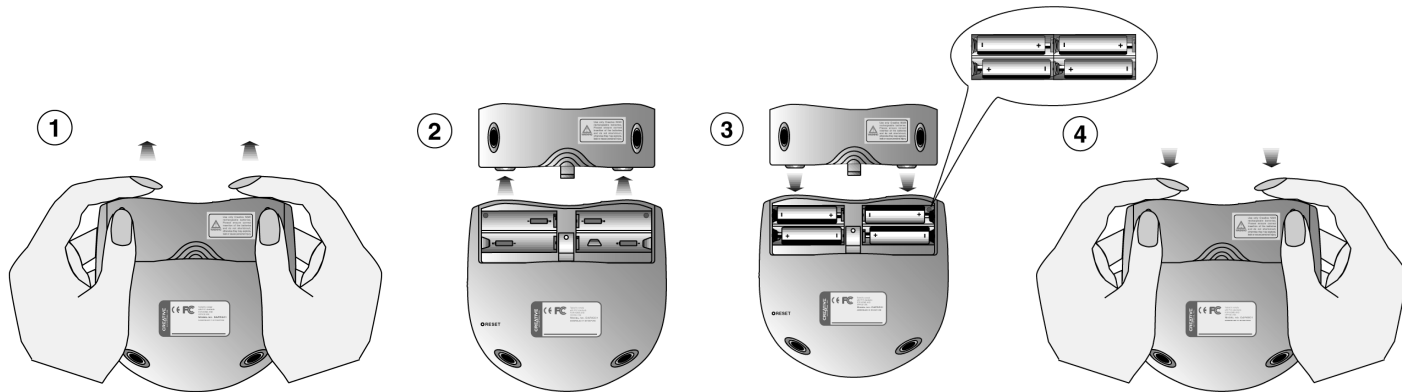Insert the rechargeable NiMH batteries according to the polarities indicated as shown in the diagrams below.

Figure 2-1:   Inserting batteries.

Step 2: Connect NOMAD Jukebox to your PC

You may leave your computer on when you connect your NOMAD Jukebox to the PC. A USB device like the Jukebox will be automatically detected by Plug-and-Play.

1. If you want to use PlayCenter 2 to download MP3 songs to your NOMAD Jukebox:

2. If you want to:
a) Supply power to your NOMAD Jukebox using the power adapter
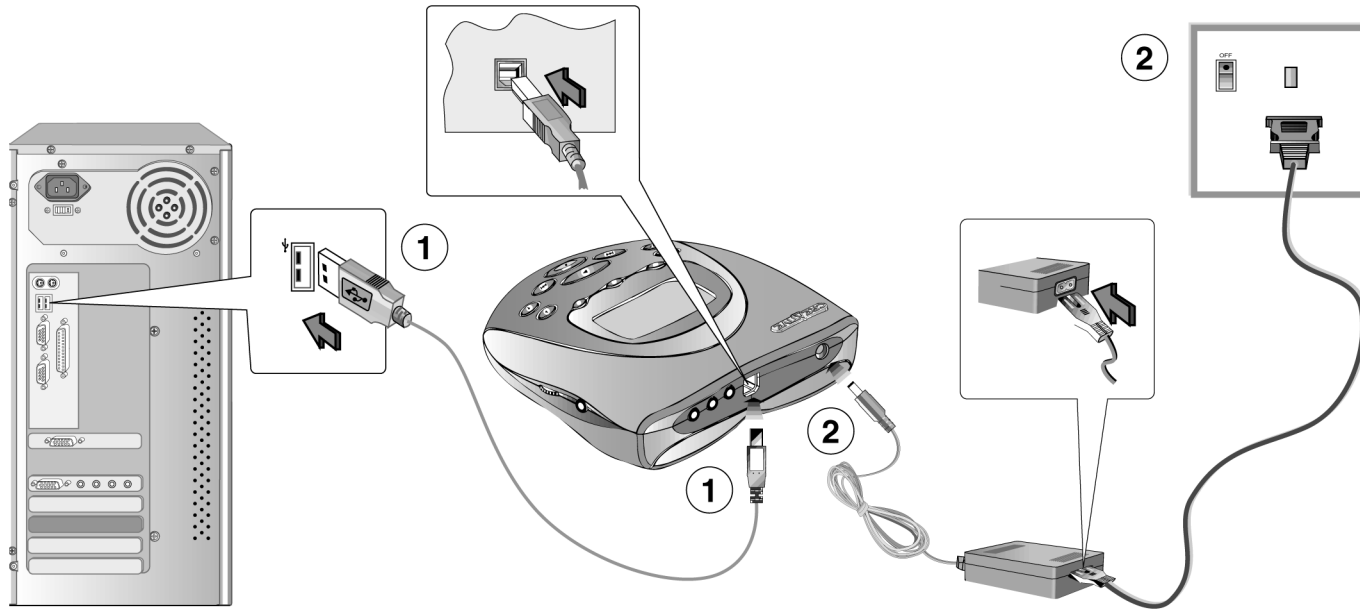b) Recharge the rechargeable NiMH batteries in NOMAD Jukebox

Figure 2-2:   Connecting NOMAD Jukebox to a PC.

Step 3: Install Software

1. At the Creative PlayCenter 2 setup screen, the applications to be installed are selected by default. Click the **OK** button to start the installation.
The **Creative On-line Registration** dialog box appears.

2. Click the **Next** button to register so Creative can keep you updated on the latest developments for NOMAD Jukebox.

3. Follow the instructions on the screen to continue with the installation.

4. When prompted to restart your system, leave the CD in the CD-ROM drive, select the **Yes, I want to restart my computer now** option and then click the **Finish** button.

Step 4: Run Jukebox Tutorial

1. After restarting your computer, you will be prompted to run the NOMAD Jukebox Tutorial.

2. Click the **Yes** button to run it.

Figure 2-3:   NOMAD Jukebox Tutorial.

Step 5: Verify NOMAD Jukebox Driver Installation

1. Click **Start** -> **Settings** -> **Control Panel**.

2. In the **Control Panel** window, double-click the **System** icon.

3. In the **System Properties** dialog box, click the **Device Manager** tab.

4. In the **Device Manager** tabbed page, double-click **Universal Serial Bus controllers**, and then check that **Creative NOMAD Jukebox** is present as shown in Figure 2-4 below.
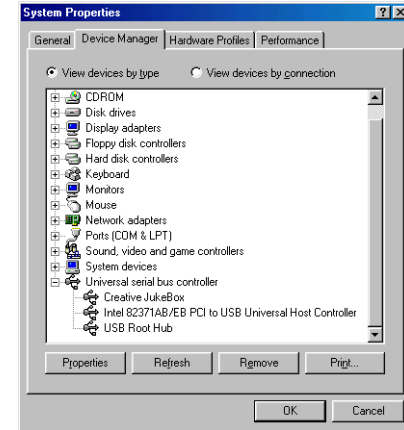
Figure 2-4:   Verifying that Creative NOMAD Jukebox driver is installed correctly.

Step 6: Switch on NOMAD Jukebox & Connect Headphones

1. Ensure that the Lock switch on NOMAD Jukebox is in the Unlock position (see Figure 1-3 on page 1-3).

2. Press and hold the **Play** button for 2 seconds.

3. Put on your backphones as shown below.

Figure 2-5:   Putting on backphones.

Step 7: Select & Play a Track

Refer to the *Quick Reference card's* "How to Play a Track" to play your favorite MP3 song.

3

Using Your NOMAD Jukebox

An online interactive tutorial is included to guide you through the important operations on NOMAD Jukebox. We recommend you run through the tutorial first before proceeding. Refer to "Step 3: Install Software" on page 2-3.

Overview of Screen Icons

The following table describes the various icons that may appear beside an item listed on the NOMAD Jukebox screen.

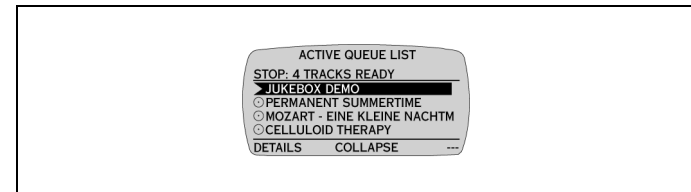| Icon	What it means
	Category (Artist, Style, Albums, etc.).
	List of Tracks (an Album, Play List, etc.).
	Single Track.
▶	PlayPointer. Appears beside the Track or List which is currently being played (depending on the ACTIVE QUEUE LIST screen).
DAWN	The highlighted item is selected.

Navigating Screens in NOMAD Jukebox

The Music Library screens allow the content on NOMAD Jukebox to be viewed and selected for playback. To select Lists or Tracks, use the **SCROLL UP/DOWN** button. To play, press the **PLAY** button. To queue Albums or Tracks, press the **QUEUE** soft button.

There are 4 main types of screens in the Music Library: **Categories**, **Lists**, **Tracks** and **Details**. These screens apply to ALBUMS, ARTISTS, STYLES and PLAY LISTS.

Opening Screen

The **ACTIVE QUEUE LIST** screen appears whenever you switch on NOMAD Jukebox. Also, if you make any changes to the ACTIVE QUEUE LIST, the settings will be saved when you switch off NOMAD Jukebox and appears when you switch on NOMAD Jukebox the next time.

```
              ACTIVE QUEUE LIST
         STOP: 4 TRACKS READY
         ▶ JUKEBOX DEMO
          ☺ PERMANENT SUMMERTIME
          ☺ MOZART - EINE KLEINE NACHTM
          ☺ CELLULOID THERAPY
         DETAILS     COLLAPSE        ---
```

Navigating to Lower Level Screens

In the ACTIVE QUEUE LIST screen, press LIB to go to the screen below.

Categories screen

```
LIBRARY CATEGORIES
PLAY LISTS
ALBUMS
ARTISTS
GENRES
---          OPEN      SEARCH
```

This is the top level of the Music Library. Press **OPEN** (soft button) to navigate to the Lists screen e.g. ALBUMS.

```
LIB: ALBUMS
JUKEBOX DEMO
ROCK ART & THE X-RAY STY
1 TIME
A NIGHT TO REMEMBER
A POSITIVE SWEAT
BACK      OPEN      QUEUE
```

Lists screen

Press **OPEN** to navigate to the Tracks screen.

```
LIB: JUKEBOX DEMO
JUKEBOX DEMO



BACK      DETAILS      QUEUE
```

Tracks screen

Press **DETAILS** to navigate to the Details screen,

```
LIB: JUKEBOX DEMO
- TRACK? ON
-   JUKEBOX DEMO
- CREATIVE LABS. INC.
- 0:00:45
PREVIEW    CLOSE      QUEUE
```

Details screen

This screen is the final level of the Music Library and cannot be expanded further.

Navigating to Upper Level Screens

```
LIB: JUKEBOX DEMO
- TRACK? ON
-   JUKEBOX DEMO
- CREATIVE LABS. INC.
- 0:00:45
PREVIEW    CLOSE      QUEUE
```

Details screen

Press **CLOSE** to navigate to the Tracks screen.

```
LIBRARY CATEGORIES
PLAY LISTS
ALBUMS
ARTISTS
GENRES
---          OPEN      SEARCH
```

```
LIB: JUKEBOX DEMO
JUKEBOX DEMO



BACK      DETAILS      QUEUE
```

Tracks screen

Press **BACK** to navigate to the List screen.

```
LIB: ALBUMS
JUKEBOX DEMO
ROCK ART & THE X-RAY STY
1 TIME
A NIGHT TO REMEMBER
A POSITIVE SWEAT
BACK      OPEN      QUEUE
```

Lists screen

Press **BACK** to navigate to the Categories screen.

```
LIBRARY CATEGORIES
PLAY LISTS
ALBUMS
ARTISTS
GENRES
---          OPEN      SEARCH
```

Categories screen

This is the top level of the Music Library.

What You Can Do in Music Library

Searching for an ALBUM, ARTIST, GENRE or PLAY LIST

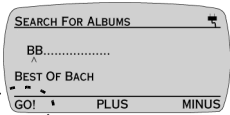Ensure that you are in the LIBRARY CATEGORIES screen before proceeding.

LIBRARY CATEGORIES
PLAY LISTS
ALBUMS
ARTISTS
GENRES
---   OPEN   SEARCH
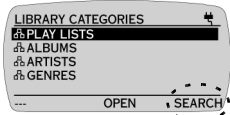
1. Press **SCROLL UP/DOWN** buttons to select ALBUMS.
2. Press **SEARCH** to access the **SEARCH FOR ALBUMS** screen.

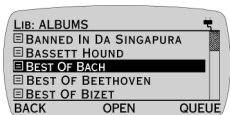SEARCH FOR ALBUMS
A...................
^
A NIGHT TO REMEMBER
GO!   PLUS   MINUS
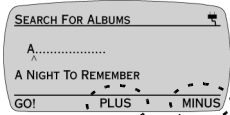
3. Press **PLUS** or **MINUS** to change the letter and then press the **SCROLL UP/DOWN** buttons to move the letter entry position (indicated by a ^).
Note: As each letter is entered, the letters are compared with the ALBUMS list. The ALBUM with the nearest match is displayedautomatically.

SEARCH FOR ALBUMS
BB..................
^
BEST OF BACH
GO!   PLUS   MINUS

4. Press **GO!** to jump to the nearest match.
The album appears on the screen.

LIB: ALBUMS
BANNED IN DA SINGAPURA
BASSETT HOUND
BEST OF BACH
BEST OF BEETHOVEN
BEST OF BIZET
BACK   OPEN   QUEUE

To return to the LIBRARY CATEGORIES screen without searching, press the **LIB** button.

Queueing an Album

Instead of playing albums immediately from the Music Library, queueing an album allows you to append them to the last item of the ACTIVE QUEUE LIST without interrupting the current playback.

Ensure that you are in the ALBUMS screen before proceeding.

LIB: ALBUMS
JUKEBOX DEMO
ROCK ART & THE X-RAY STY
1 TIME
A NIGHT TO REMEMBER
A POSITIVE SWEAT
BACK   OPEN   QUEUE
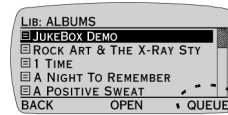
1. Press the **SCROLL UP/DOWN** buttons to select an album and then press **QUEUE**.
**Note:** To select more than one album, repeat step 1 for each album.

ACTIVE QUEUELIST
STOP: 5 TRACKS READY
JUKEBOX DEMO
TONY ADAMS
N-DRA---TRAFFIC JAM
RICK NELSON - GARDEN PARTY
DETAILS COLLAPSE CLEAR-LIST
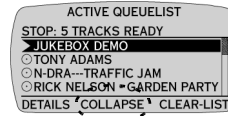
2. Press the **LIB** button to access the ACTIVE QUEUE LIST screen to check your queue list.
Note: By default, the ACTIVE QUEUE LIST screen displays tracks. Press **COLLAPSE** to view by albums.
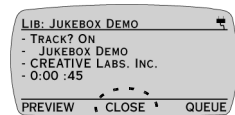
Viewing Details

There are two types of DETAILS screens. The first type is accessed from the TRACKS screen and the second type is accessed from the ACTIVE QUEUE LIST screen.
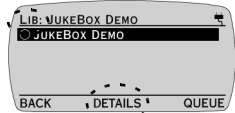

Viewing DETAILS accessed from the TRACKS screen

1. Press **DETAILS**.
   The DETAILS screen displays the Track Order, Album, Artist and duration of the track.
2. Press **CLOSE** to return to the LIBRARY CATEGORIES screen.

Viewing DETAILS accessed from the ACTIVE QUEUE LIST screen

1. Press **DETAILS**.
   The DETAILS screen displays the Track Title, Artist and Album together with Audio Playback settings (see note below) and Play Mode (see "Setting Play Mode" on page 3-6).
2. Press **BACK** to return to the ACTIVE QUEUE LIST screen.
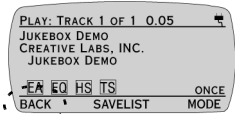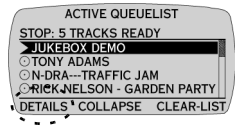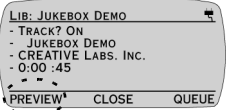
The following Playback settings will be shown on the LCD if they have been turned on.

Icon	What it means
EA	You have applied an Environmental Preset such as Concert Hall.
EQ	You have applied Parametric EQ.
HS	You have applied Headphone Spatialization such as Full effects.
TS	You have adjusted to a different playback speed (faster or slower) using Time Scaling.
4S	You have applied spatialization (4-Channel Speaker Sound) to your four speaker system. This icon appears only if speakers are connected).
Note: You can adjust all the above settings in the EAX and System Menu. For details, refer to "What You can Do in EAX and System Menu" on page 3-7 onwards.	
ONCE	Plays the current track or play list once.
SHUFFLE	Play once in random order.
RANDOM	Plays continuously in a random way.
REPEAT	Repeats the playback.

Previewing a Track

Previewing a track allows you to play a track without placing it in the ACTIVE PLAY LIST screen. It is useful if you want to listen to the track before deciding whether or not to queue the track.

Ensure that you are in the DETAILS screen accessed from the TRACKS screen before proceeding.
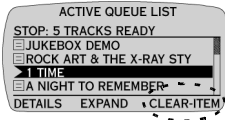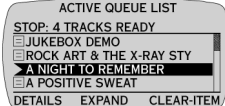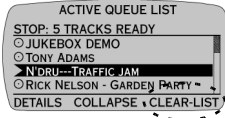
LIB: JUKEBOX DEMO
- TRACK? ON
- JUKEBOX DEMO
- CREATIVE LABS. INC.
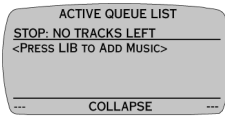- 0:00 :45

PREVIEW   CLOSE   QUEUE

1. Press **PREVIEW**.
   The track plays for its entire duration.
2. Press **STOP** to stop the Preview playback.

Preview cannot be used if audio is already playing.

Removing Albums, Tracks or Play Lists from the ACTIVE QUEUE LIST screen

Removing selected Albums, Tracks or Play Lists only clears them from the ACTIVE QUEUE LIST screen. The action *does not* erase actual tracks from NOMAD Jukebox.

Ensure that you are in the ACTIVE QUEUE LIST screen and in COLLAPSE view before proceeding.

ACTIVE QUEUE LIST
STOP: 5 TRACKS READY
JUKEBOX DEMO
ROCK ART & THE X-RAY STY
1 TIME
A NIGHT TO REMEMBER
DETAILS   EXPAND   CLEAR-ITEM

ACTIVE QUEUE LIST
STOP: 4 TRACKS READY
JUKEBOX DEMO
ROCK ART & THE X-RAY STY
A NIGHT TO REMEMBER
A POSITIVE SWEAT
DETAILS   EXPAND   CLEAR-ITEM

ACTIVE QUEUE LIST
STOP: 5 TRACKS READY
JUKEBOX DEMO
TONY ADAMS
N'DRU---TRAFFIC JAM
RICK NELSON - GARDEN PARTY
DETAILS   COLLAPSE CLEAR-LIST

ACTIVE QUEUE LIST
STOP: NO TRACKS LEFT
<PRESS LIB TO ADD MUSIC>

---   COLLAPSE   ---

Removing Items

▶ Press the **SCROLL UP/DOWN** buttons to select tracks to clear and then press CLEAR-ITEM for each one. The track is cleared from the ACTIVE QUEUE LIST screen.

Removing the entire Play List

1. Press EXPAND to go to the EXPAND view so that you see COLLAPSE above the middle soft button.
2. Press CLEAR-LIST.

What You can Do while Playing Tracks/Albums

Refer to the *Quick Start* leaflet for instructions to play a track.

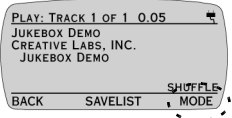## Skipping Forward/Backward by Tracks

ACTIVE QUEUELIST
PLAY: TRACK 1 OF 5 0:05
▶ JUKEBOX DEMO
ROCK ART & THE X-RAY STY
1 TIME
A NIGHT TO REMEMBER
DETAILS   EXPAND   CLEAR-ITEM

ACTIVE QUEUELIST
PLAY: TRACK 2 OF 5 0:06
JUKEBOX DEMO
▶ ROCK ART & THE X-RAY STY
1 TIME
A NIGHT TO REMEMBER
DETAILS   EXPAND   CLEAR-ITEM

▶ Press the **SKIP FORWARD/BACKWARD** buttons to skip forward to the next track or skip backward to the previous track.

Setting Play Mode

Play Mode specifies how tracks or albums in the ACTIVE QUEUE LIST screen are being played. There are four modes: ONCE, SHUFFLE (play once in random order), RANDOM (continuous random play) and REPEAT.

Ensure that you are in DETAILS screen before proceeding.

PLAY: TRACK 1 OF 1 0.05
JUKEBOX DEMO
CREATIVE LABS, INC.
JUKEBOX DEMO
                        SHUFFLE
BACK   SAVELIST   MODE

▶ Press **MODE** (repeatedly, if necessary) to change to the desired Play Mode.

Saving a Play List in DETAILS screen

You can queue your favorite tracks to the ACTIVE QUEUE LIST screen and then save the tracks as a Play List for easy retrieval.

Saving a Play List in DETAILS screen is a shortcut to the SAVE ACTIVE QUEUE LIST function in the EAX and System Menu.

PLAY: TRACK 1 OF 1 0.05
JUKEBOX DEMO
CREATIVE LABS, INC.
JUKEBOX DEMO
                        ONCE
BACK   SAVELIST   MODE

1. Press **SAVELIST** to save all the currently queued tracks to a play list.

SAVE ACTIVE QUEUE LIST:

PLAYLIST 0000.......
^
DONE!   PLUS   MINUS

2. Press **PLUS** or **MINUS** to change the letter and then press the **SCROLL UP/DOWN** buttons to move the letter entry position indicated by a ^.

3. Press **DONE!**
The ALBUMS screen returns.

4. Press **BACK** to return to LIBRARY CATEGORIES screen.

LIB: PLAY LISTS
PLAYLIST 0000

BACK   OPEN   QUEUE

5. Press the **SCROLL UP/DOWN** buttons to select PLAY LISTS.

6. Press **OPEN** to check your saved PLAY LIST.

To delete a PlayList, see "Deleting Library Items" on Page 3-10.

What You can Do in EAX and System Menu

Parametric EQ, Spatialization, Environmental Settings and Playback Speed are EAX technologies. For a more detailed explanation of these technologies, refer to the online *NOMAD Jukebox Tutorial*. System Menus contain a list of features and preferences which can be adjusted and set.

Adjusting Parametric EQ.

Get the sound you want by tweaking Bass, Treble and Middle equalizer settings by +/- 12 decibels. Fine-tune audio playback further by setting middle frequency between 200 to 4500 hertz. Adjustments are heard immediately if you are currently playing a track.
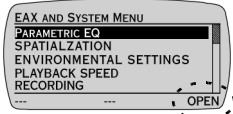
1. Press the **EAX** button to access EAX AND SYSTEM MENU and then press the SCROLL UP/DOWN buttons to select PARAMETRIC EQ.
2. Press **OPEN**.
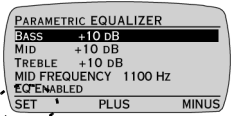
3. Press the **SCROLL UP/DOWN** buttons to select a setting for adjustment.
4. Press **PLUS** or **MINUS** to adjust the setting.
5. Press **SET** to save the adjustment(s).
   **Note:** If you do not want to change the settings, press **EAX**.

These adjustments will be applied only if EQ ENABLED is selected. They will be disabled if EQ BYPASSED is selected.

Adjusting Spatialization Settings

With Spatialization, you can experience audio from your headphones with Narrow, Wide or Full effects. Duplicate or Surround effects is also possible with a four speaker system like Cambridge SoundWorks FourPointSurround.

Ensure that you are in EAX AND SYSTEM MENU before proceeding.
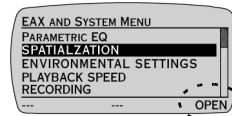
1. Press the **SCROLL UP/DOWN** buttons to select SPATIALIZATION.
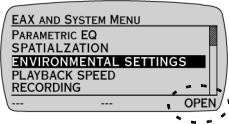2. Press **OPEN**.
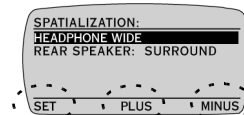
3. Press the **SCROLL UP/DOWN** buttons to select a setting for adjustment.
4. Press **PLUS** or **MINUS** to adjust the setting.
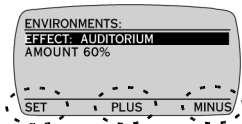5. Press **SET** to save the adjustment(s).

Adjusting Environmental Settings

You can select one of the following Environmental Settings: City, Arena, Concert Hall, Auditorium, Club, Cave, Hallway, Stone Room, Living Room, and Ball Room. You can also adjust the AMOUNT of the selected Environmental Setting to customize its intensity.

Ensure that you are in EAX AND SYSTEM MENU before proceeding.

1. Press the **SCROLL UP/DOWN** buttons to select ENVIRONMENTAL SETTINGS.
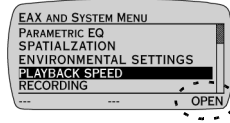2. Press **OPEN**.

3. Press the **SCROLL UP/DOWN** buttons to select a setting for adjustment.
4. Press **PLUS** or **MINUS** to adjust the setting.
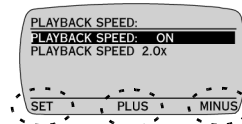5. Press **SET** to save the adjustment(s).

Using Playback Speed

Playback Speed allows you to slow down or speed up audio playback without changing pitch. For voice recordings, the speed range is from 0.5x to 2.0x. For MP3 tracks, the speed range is from 0.5x to 1.4x.

Ensure that you are in EAX AND SYSTEM MENU before proceeding.

1. Press the **SCROLL UP/DOWN** buttons to select PLAYBACK SPEED.
2. Press **OPEN**.

3. Press the **SCROLL UP/DOWN** buttons to select a setting for adjustment.
4. Press **PLUS** or **MINUS** to adjust the setting.
    To enable Playback Speed, ensure that the setting is ON.
5. Press **SET** to save the adjustment(s).
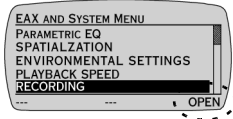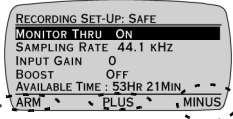
Creating and Saving an Audio Recording

A neat feature of NOMAD Jukebox is its ability to record hours of audio using an attached microphone. With the Jukebox, you can now easily record your important lectures and interviews in digital format.
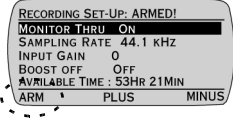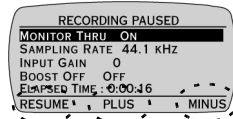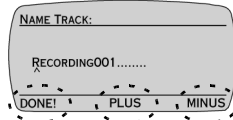
Noise may occur from the rear speakers while you are creating a recording but it will NOT be captured in the recording. Disconnect the rear speakers attached to Line Out Jack 2 from your NOMAD Jukebox if noise occurs.

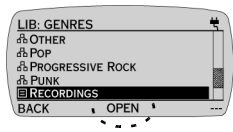Ensure that you are in EAX AND SYSTEM MENU before proceeding.

1. Connect a pre-amplified microphone or other sources e.g. MD line-out to the Jukebox's LINE IN jack.
   Note: A pre-amplified microphone must be used for recording.

```
EAX AND SYSTEM MENU
PARAMETRIC EQ
SPATIALZATION
ENVIRONMENTAL SETTINGS
PLAYBACK SPEED
RECORDING
---          ---        OPEN
```

2. Press the **SCROLL UP/DOWN** buttons to select RECORDING.
3. Press **OPEN**.

```
RECORDING SET-UP: SAFE
MONITOR THRU    ON
SAMPLING RATE  44.1 KHZ
INPUT GAIN      0
BOOST          OFF
AVAILABLE TIME : 53HR 21MIN
ARM          PLUS       MINUS
```

4. Press the **SCROLL UP/DOWN** buttons to select a setting for adjustment.
5. Press **PLUS** or **MINUS** to adjust the setting.

```
RECORDING SET-UP: ARMED!
MONITOR THRU    ON
SAMPLING RATE  44.1 KHZ
INPUT GAIN      0
BOOST OFF      OFF
AVAILABLE TIME : 53HR 21MIN
ARM          PLUS       MINUS
```

6. Press **ARM** to go to recording standby state.
   Note: To hear what you are recording, set MONITOR THRU to ON. To begin recording without making any adjustments to recording settings, skip Steps 5 and 6.

```
NOW RECORDING
MONITOR THRU    ON
SAMPLING RATE  44.1 KHZ
INPUT GAIN      0
BOOST          OFF
ELAPSED TIME : 0:00:16
PAUSE          PLUS       MINUS
```

7. Press the **PLAY** button to begin recording.
   Note: You can make real-time adjustments to the record settings while recording by following Steps 5 and 6.

```
RECORDING PAUSED
MONITOR THRU    ON
SAMPLING RATE  44.1 KHZ
INPUT GAIN      0
BOOST OFF      OFF
ELAPSED TIME : 0:00:16
RESUME        PLUS       MINUS
```

8. Press the **STOP** button or **PAUSE** to pause recording.
9. Press **RESUME** to continue recording or press **DISCARD** to delete the recording.
10. Press **SAVE** to save the recording.

```
NAME TRACK:

  RECORDING001........
  ^
DONE!         PLUS       MINUS
```

11. Press **PLUS** or **MINUS** to change the letter and then press the **SCROLL UP/DOWN** buttons to move the letter entry position.
12. Press **DONE!** to save the recording.

Listening to an Audio Recording

To listen to your saved audio recording, ensure that you are in the LIBRARY CATEGORIES screen.

```
LIBRARY CATEGORIES
  PLAY LISTS
  ALBUMS
  ARTISTS
  GENRES
---        OPEN      SEARCH
```
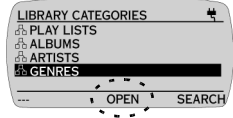
1. Press the **SCROLL UP/DOWN** buttons to select GENRES.
2. Press **OPEN**.

```
LIB: GENRES
  OTHER
  POP
  PROGRESSIVE ROCK
  PUNK
  RECORDINGS
BACK        OPEN       ---
```

3. Press the **SCROLL UP/DOWN** buttons to select RECORDINGS.
4. Press **OPEN**.

```
LIB: RECORDINGS
  RECORDING007

BACK     DETAILS    QUEUE
```
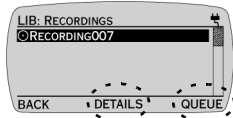
5. Press the **SCROLL UP/DOWN** buttons to select the recording you have saved.
6. Press the **PLAY** button to listen.
   Press **DETAILS** to view information on the track.
   Press **QUEUE** to place the track on in the active queue list.

> ☑ You can use Playback Speed (refer to "Using Playback Speed" on page 3-8) to slow down or speed up the playback speed of your audio recording.

> 🗒 Use PlayCenter 2 to encode your recording to an MP3 track to reduce its file size or to fill in the track details. Refer to its online Help for instructions.

Saving an Active Queue List

This feature allows an active queue list to be saved on the Jukebox.

```
EAX AND SYSTEM MENU
SPATIALIZATION
ENVIRONMENTAL SETTINGS
PLAYBACK SPEED
RECORDING
SAVE ACTIVE QUEUE LIST
---        ---        OPEN
```

1. After you have created an active queue list, press **EAX** to access EAX AND SYSTEM MENU screen.
   Note: For details on how to create an active queue list, refer to "Saving a Play List in DETAILS screen" on page 3-6.
2. Press the **SCROLL UP/DOWN** buttons to select SAVE ACTIVE QUEUE LIST.
3. Press **OPEN**.
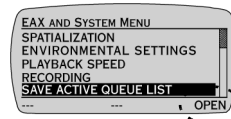
```
SAVE ACTIVE QUEUE LIST:

  PLAYLIST 001......
  ^
DONE!       PLUS       MINUS
```
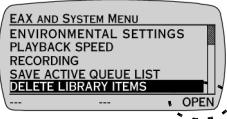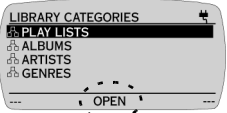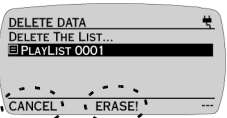
4. Press **PLUS** or **MINUS** to change the letter and then press the **SCROLL UP/DOWN** buttons to move the letter entry position indicated by a caret.
5. Press **DONE!** to save the play list.
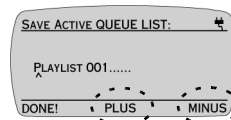
Deleting Library Items

This feature allows a play list, track or album to be deleted completely from NOMAD Jukebox. Ensure that you are in EAX AND SYSTEM MENU before proceeding.
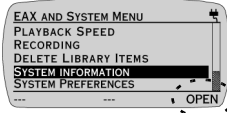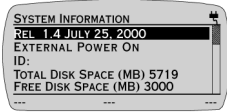
EAX AND SYSTEM MENU
ENVIRONMENTAL SETTINGS
PLAYBACK SPEED
RECORDING
SAVE ACTIVE QUEUE LIST
DELETE LIBRARY ITEMS
---   ---   OPEN

1. Press the **SCROLL UP/DOWN** buttons to select DELETE LIBRARY ITEMS.
2. Press **OPEN** to access LIBRARY CATEGORIES screen.

LIBRARY CATEGORIES
PLAY LISTS
ALBUMS
ARTISTS
GENRES
---   OPEN   ---

3. Press the **SCROLL UP/DOWN** buttons to select PLAY LISTS.
4. Press **OPEN**.

LIB: PLAY LISTS
PLAYLIST 0001

BACK   ---   ERASE!

5. Press the **SCROLL UP/DOWN** buttons to select the play list you would like to delete.
6. Press **ERASE!**.

DELETE DATA
DELETE THE LIST...
PLAYLIST 0001

CANCEL   ERASE!   ---

7. Verify again the play list to be deleted. Press **ERASE!** to delete. Press **CANCEL** to cancel the deletion.
Note: Using this feature will stop playback and clear the current playlist. If a play list is selected for deletion, only the list is deleted - the tracks or albums remain on the Jukebox.

Viewing System Information

The SYSTEM INFORMATION screen provides useful data on your Jukebox's power consumption, disk space and number of audio tracks and albums stored. The release number and date of your Jukebox is also shown. You can also view your Jukebox's ID if you have created one using Creative's PlayCenter 2.

Ensure that you are in EAX AND SYSTEM MENU before proceeding.

EAX AND SYSTEM MENU
PLAYBACK SPEED
RECORDING
DELETE LIBRARY ITEMS
SYSTEM INFORMATION
SYSTEM PREFERENCES
---   ---   OPEN

1. Press the **SCROLL UP/DOWN** buttons to select SYSTEM INFORMATION.
2. Press **OPEN**.

SYSTEM INFORMATION
REL 1.4 JULY 25, 2000
EXTERNAL POWER ON
ID:
TOTAL DISK SPACE (MB) 5719
FREE DISK SPACE (MB) 3000
---   ---   ---

3. Press **LIB** to return to the **LIBRARY CATEGORIES** screen.
   Press **EAX** to return to the EAX and System Menu screen.

The System Information screen is for display only. You will not be able to adjust any of the settings except the ID. To change the ID, start PlayCenter 2, open the **Transfer Window**, and click **Settings** on the toolbar. Type a new ID and click **OK**.

Adjusting System Preferences

The SYSTEM PREFERENCES screen allows you to adjust some of the Jukebox's overall functions. You can adjust the Jukebox's LCD display by adj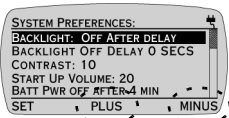usting Backlight or Contrast settings. A preferred startup volume can also be set with the Startup Volume setting. If the Jukebox is not in use, you can put it on standby with the Sleep mode function.
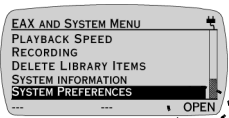
EAX AND SYSTEM MENU
PLAYBACK SPEED
RECORDING
DELETE LIBRARY ITEMS
SYSTEM INFORMATION
SYSTEM PREFERENCES
---   ---   OPEN

1. Press **SYSTEM PREFERENCES**.

SYSTEM PREFERENCES:
BACKLIGHT: OFF AFTER DELAY
BACKLIGHT OFF DELAY 0 SECS
CONTRAST: 10
START UP VOLUME: 20
BATT PWR OFF AFTER 4 MIN
SET   PLUS   MINUS

2. Press **OPEN**.
3. Press the **SCROLL UP/DOWN** buttons to select a setting for adjustment.
4. Press **PLUS** or **MINUS** to adjust the setting.
5. Press **SET** to save the adjustment(s).

You can set the LCD Backlight to be ALWAYS ON, ALWAYS OFF and OFF AFTER DELAY. If OFF AFTER DELAY is selected, the BACKLIGHT OFF DELAY setting will appear; this setting allows you to configure the backlight to turn off 10 to 300 seconds after you last pressed a Jukebox button.
You can also set Novice Mode to be ON (set by factory default) or OFF. In Novice Mode, a screen prompt will appear indicating some instructions to help you in navigation.
Adjustments to System Preferences are effective immediately.

Appendix

A
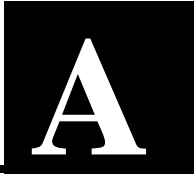
An MP3 Primer

What is MP3?

MP3 is the acronym for Moving Picture Experts Group (MPEG) Layer 3, a type of audio data compression technology that can reduce digital sound files by as much as one-twelfth of their original size, with virtually no loss in quality. It is an efficient way to store high-quality music or other audio content on your computer.

These MP3 files usually have the extension .MP3, and can be downloaded from the Internet, or be legally produced for personal use from original audio CDs.

> It is illegal to encode MP3 files for trade or sale unless you have the expressed and explicit permission of the copyright holder(s).

MP3 Conversion Process

Extracting from Audio CD

> You must have a CD-ROM drive that can extract audio data from an audio CD.

Audio CD extraction is the first phase in the MP3 conversion process. You need a program that can direct the CD-ROM drive to extract this audio data. Known as a "ripper", the program reads the data from the audio CD and sometimes stores it in a file on your hard disk.

The duration of the audio CD extraction phase depends on many factors. The speed of a CD-ROM drive is one of the most important elements in overall extraction speed. The speed ratings commonly seen on CD-ROM drives—like 40X, and so on—refer to the rate at which *data* CDs or CD-ROMs are read. Your CD-ROM drive may be fast at reading non-audio data, but slow at reading audio CD data.

Other factors affecting extraction are defects or scratches on an audio CD which result in lost data. This is not noticeable when the audio CD is playing in a CD-ROM drive. When the audio data is put through the MP3 encoding phase, however, the distortion is highly noticeable. To avoid this distortion, the audio CD extraction program may read the data two or three times to make sure it reads the data correctly. This error-checking feature is an option in most audio CD data extraction software. Be sure error-checking is enabled in your audio CD extraction software.

Encoding to MP3

MP3 encoding is the second phase in the MP3 conversion process. The data extracted from an audio CD is one of the many types of data an MP3 encoder may process. Encoders read .WAV data and compress this data into an MP3 file.

MP3 encoding is quality lossy compression, with some data being lost during compression. Although the original data is greatly compressed, the resulting data does not suffer much loss in audio quality. The amount of

quality loss depends upoun the sampling rate of the output and the bitrate of the output. The higher the sampling and bitrates of each of these parameters, the better the quality of the sound.

Memory and Audio Quality

The MP3 memory size and MP3 quality are related. The higher the quality required, the higher the bitrate needed. This leads to more data storage and memory requirements. As NOMAD Jukebox has a huge storage capacity of 6 GB, you should set your encoding bitrate to at least 128 kbps for optimal quality when you create MP3 files from audio CDs using PlayCenter 2. You can still store more than 100 hours of digital music.

MP3 Web Sites

Through web sites, you can download MP3 files either with or without charge and get information about the latest software related to MP3.

Examples of web sites with MP3 content are:

❏ NOMAD World
(http://www.nomadworld.com)

❏ Spinrecords.com
(http://www.spinrecords.com)

❏ Epitonic.com
(http://www.epitonic.com)

❏ SoundClick.com
(http://www.soundclick.com)

❏ The Digital Music Co.
(http://www.thedigitalmusicco.com)

❏ Big Heavy World
(http://www.bigheavyworld.com)

❏ AMP3.com
(http://www.amp3.com)

❏ EZCD.com
(http://www.ezcd.com)

❏ ArtistOne.com
(http://www.artistone.com)

❏ Soundbuzz.com
(http://www.soundbuzz.com)

Appendix

B

Technical Specifications & Troubleshooting

NOMAD Jukebox DAP-6G01

Size (W x H x D)
- ❑ 5" x 5" x 1.5"

Weight
- ❑ 14 oz without batteries

Memory
- ❑ 8 MB DRAM buffer

Capacity
- ❑ 6 GB hard drive (100 hours at 128Kbps encoding)

Battery Life (playback time)
- ❑ 4 hours* of continuous playback of songs which are encoded at 128kbps when fully charged
- ❑ Battery life may be reduced:
  - ❑ If songs with a higher bitrate are played
  - ❑ If EAX is turned on.
  - ❑ If operations such as navigation, skip forward/backward etc. are used frequently

- ❑ If backlight is turned on for more than the default setting of 10 secs

* Based on usage with NiMH rechargeable batteries, alkaline batteries are not recommended because they are not suitable for high power consumption required by NOMAD Jukebox. Using alkaline batteries may result in a playback time shorter than 1 hour

Interface
- ❑ USB digital data port offering up to 500 KBps transfer rate

Playback Formats
- ❑ MP3**

Signal to Noise
- ❑ >90 dB

Frequency Response
- ❑ 20 Hz~20000 Hz

Harmonic Distortion
- ❑ <0.1%

Operating System/Firmware
- ❑ Upgradeable via Internet

Line Input
- ❑ 1/8" stereo minijack

Line outputs

- ❑ 2 x 1/8" stereo minijack for front and rear speakers

Headphone Out
- ❑ 1/8" stereo minijack, 100 mW

LCD Display
- ❑ Large 132 x 64 pixel backlit display

Data Connector
- ❑ USB

EAX
- ❑ Environmental Effects
- ❑ Parametric Equalization
- ❑ 3D Spatialized headphones
- ❑ 4-channel surround and adjustable playback speed

Playback Speed
- ❑ Up to 2x faster or slower for audio book content, .WAV files and up to 1.4x faster for MP3 and up to 2x slower for MP3 audio playback

Audio Codec Support
- ❑ MPEG Audio Layer 3 (MP3), WAV and future formats (WMA)**

SDMI Compliance

Technical Specifications & Troubleshooting   B-1

❏ Hardware ready**

** Future audio codec support, firmware upgrades, and SDMI compliance will be available from www.nomadworld.com

Troubleshooting

There is no display on the LCD

Causes

❏ The rechargeable NiMH batteries are not inserted correctly according to the polarities indicated on NOMAD Jukebox.

❏ The batteries are too weak.

Solutions

❏ Check the polarities on the batteries and re-insert them according to the polarities on NOMAD Jukebox.

❏ Recharge the batteries.

The message "Creative Personal Digital Entertainment" or "Preparing Library" appears on the LCD and remains displayed for more than 1 minute

Cause

NOMAD Jukebox has stopped responding.

Solution

Follow these steps:

1. Ensure that the power cable is attached to NOMAD Jukebox or the rechargeable batteries have sufficient power.

2. Insert and push a straightened paper clip into the Reset hole.

3. NOMAD Jukebox's LCD becomes blank. Press and hold the Play button to switch on NOMAD Jukebox (see Figure 1-4 on page 1-4).

4. If you continue to encounter this problem, call Technical Support.

NOMAD Jukebox displays "Best of Bach" when I search for an album name that starts with "A"

Cause

❏ The search result is normal.

Solution

❏ NOMAD Jukebox searches and displays the *nearest* match that starts with "A". In this case, since there is *no* album that starts with "A", the next nearest match that starts with "B" is displayed.

I inserted four brand new alkaline batteries but there is less than one hour of playback on my NOMAD Jukebox

Cause

❏ Due to the high power consumption of NOMAD Jukebox, it is *not* recommended to use alkaline batteries in NOMAD Jukebox as the batteries will be drained away much faster than rechargeable NiMH batteries.

Solution

❏ If you use NOMAD Jukebox in the outdoors frequently, purchase additional Creative NiMH batteries, and ensure that you charge them before going outdoors.

NOMAD Jukebox experienced some problems when using other types of rechargeable batteries such as NiCd or rechargeable akaline batteries

Cause

❏ Other types of rechargeable batteries cannot be used.

Solution

❏ Use Creative NiMH batteries to ensure optimum performance for your NOMAD Jukebox.

NOMAD Jukebox displays a screen prompt every time I switch between the LIBRARY CATEGORIES screen, the EAX AND SYSTEM MENU screen and the ACTIVE QUEUE LIST screen

Cause

❑ NOVICE Mode is selected in EAX and System Menu's System Preferences.

Solution

❑ Select SYSTEM PREFERENCES and then select **NOVICE MODE**. Press **PLUS** or **MINUS** to select NO and then press **SET** to save the setting.

C
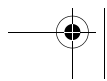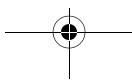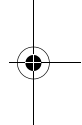
Appendix

Important Safety Instructions

General Handling Instructions

Do not subject NOMAD Jukebox to extreme force

❑ Vibration during walking or exercising will not affect NOMAD Jukebox. However, dropping NOMAD Jukebox or dropping a heavy object on NOMAD Jukebox may result in distorted sound.
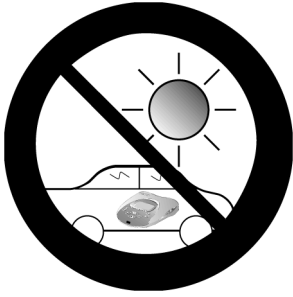
Keep NOMAD Jukebox away from water at all times

❑ NOMAD Jukebox may be damaged if water enters it.

❑ If NOMAD Jukebox comes in contact with water, wipe it immediately with a dry cloth. If it does not function, call Technical Support.

Store NOMAD Jukebox carefully

❑ Avoid keeping NOMAD Jukebox near high heat source(s) or in places with high humidity or strong magnetic field.

Do not place NOMAD Jukebox in a car under direct sunlight for a prolonged period of time

Do not operate NOMAD Jukebox under extremely warm conditions

Specific Handling Instructions

Read and take note of the following safety and operating instructions carefully. Retain these notes for future reference.

Switching Off NOMAD Jukebox

Be sure that NOMAD Jukebox is properly switched off before detaching the power cable from NOMAD Jukebox.

Cleaning NOMAD Jukebox

❑ Disconnect the power supply adapter from the wall outlet or power source before cleaning.

❑ Do not use liquid or aerosol cleaners.

❑ Use a damp cloth for cleaning.

Using and Replacing Batteries

Do not dispose the batteries in fire, recharge, put in backwards, and mix with used or other battery types as they may explode or leak and cause personal injury.

DO NOT:

❑ Attempt to recharge batteries other than the type specified. Recharging non-rechargeable batteries (such as normal, heavy duty or alkaline batteries), OR different types of batteries (such as rechargeable alkaline batteries) may lead to an explosion or leakage and cause personal injury.

❑ Immerse the batteries in water.

❑ Repair or disassemble the batteries.

❑ Drop the batteries or subject them to extreme force.

❑ Short-circuit the batteries, as this may result in skin burns.

DO:

❑ Insert the batteries according to the polarity markings on the product.

❑ Keep the batteries in a cool and dry place, away from heat, moisture and metal objects when not in use.

❑ Handle leaking batteries with rubber gloves. Avoid direct contact with skin or eyes. If this happens, wash thoroughly with water and seek medical attention.

❑ Dispose of used batteries as required by local ordinances or regulations.

❑ Keep the batteries out of reach of young children.

Servicing

Do not attempt to service any part of the product yourself. Servicing should only be done by qualified service personnel.

Power Sources

The product should be operated only with the bundled power source. If you are not sure of the power supply cord type in your home, consult your product dealer.

If you are using batteries with your product, refer to the operating instructions included in your documentation and markings, if any, on the product.

Proper Care and Usage

❑ Do not use any object to probe the openings of the product as this may result in electric shock or fire, and will also damage the product.

❑ Do not spill liquid of any kind on the product.

Health Hazards

Inhalation

Inhaling the fumes from the contents of an exposed battery may cause respiratory irritation. If this happens, breathe in fresh air and seek medical attention.

Skin Contact

Direct skin contact with the contents of an exposed battery may cause skin irritation and/or chemical burns. Remove contaminated clothing and wash the affected skin area with soap and water. If a chemical burn or the irritation persists, seek medical attention.

Eye Contact

If the contents of an exposed battery comes into contact with the eyes, this may cause severe irritation and chemical burns. Flush the eyes thoroughly with water immediately for at least 15 minutes, lifting the upper and lower eyelids while doing so, until no evidence of the chemical remains. Seek medical attention.