

brennan JB7

user guide



brennan JB7

introduction

The Brennan JB7 is the result of seven years of work between 2001 and 2008. I instinctively felt that hard disks and music were made for each other, and I wanted a better way to enjoy my modest collection of 350 CDs.

Initially I tried to license my technology to existing audio companies and had a measure of success, but I felt I could do better – so I took the difficult decision to manufacture my own product.

I can honestly say that I have learned more in the last three years than I ever did learning physics at Cambridge. It has been tough, but the most rewarding part has been hearing JB7 owners talk with affection and warmth about their Brennans.

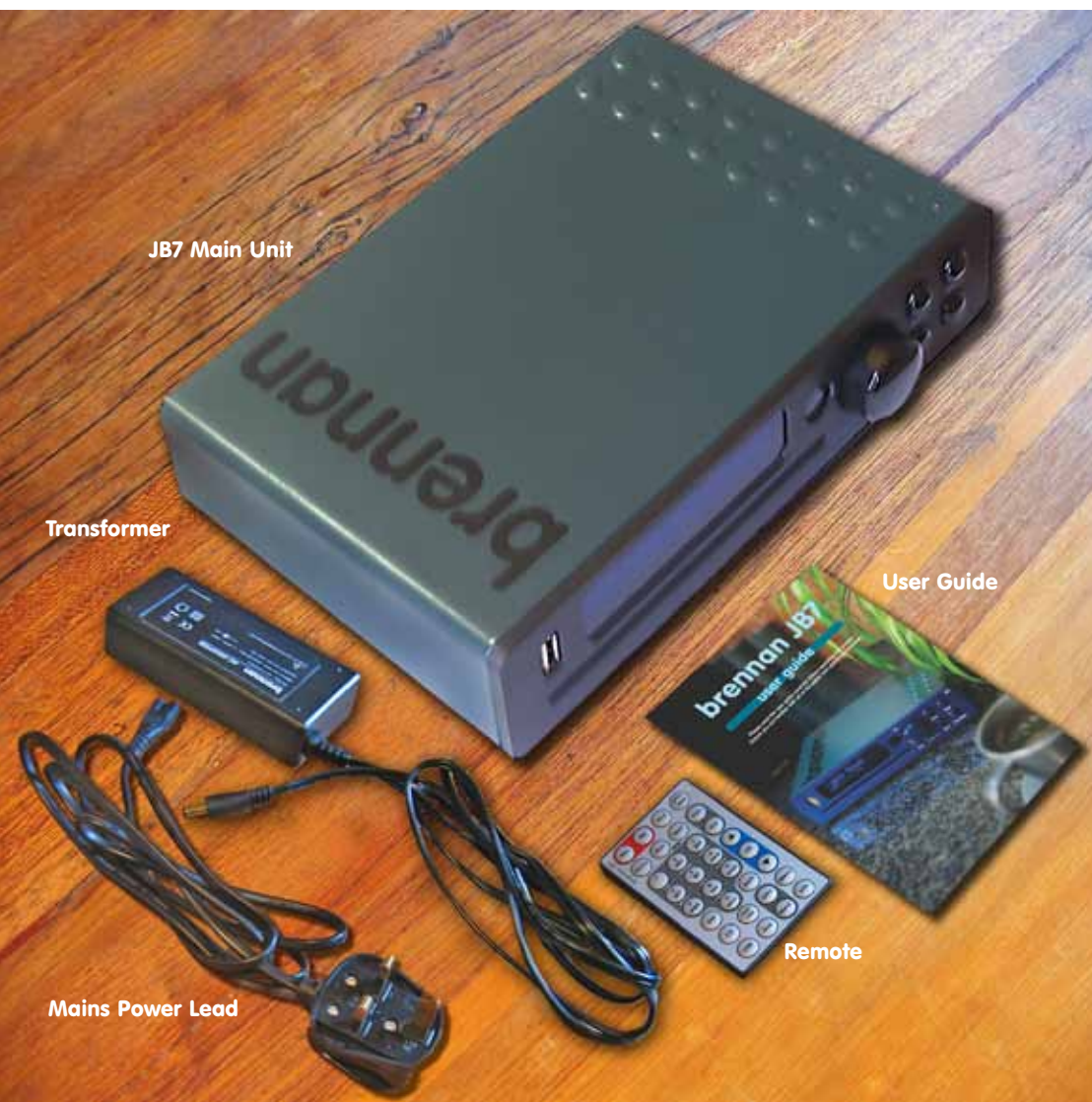
I feel a bit of a cheat of course, because it's really the songwriters, composers and musicians who deserve the credit. I hope you enjoy your music.



This guide shows you how you can use the Brennan JB7 to

- Upload your entire CD collection to the storage system quickly and simply
- Give you instant access to any of your music
- Play your whole music collection at random, or create playlists of your favourite music
- Scroll through all your albums from the sofa, using the compact remote control

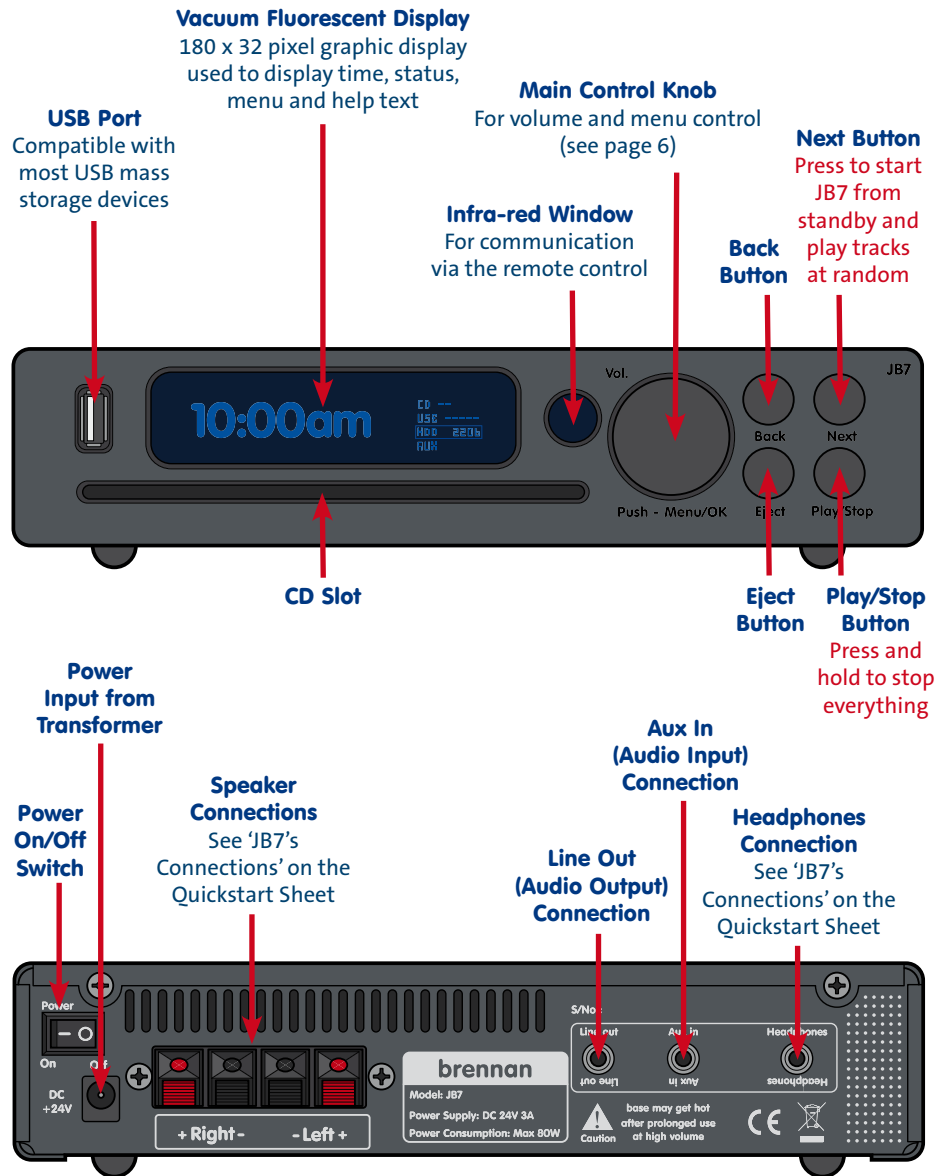
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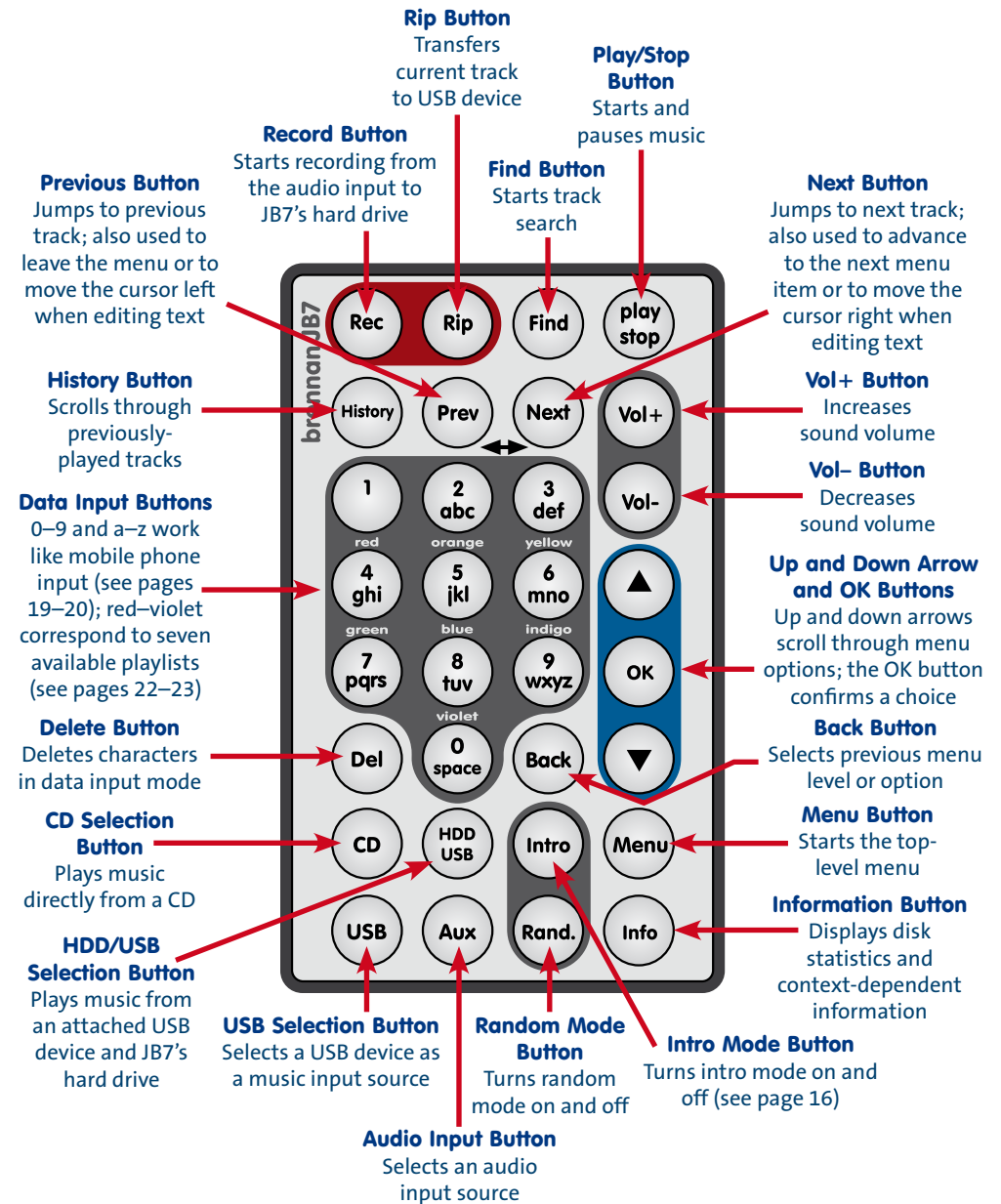
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main unit features



remote features



using JB7

This table shows you how to carry out actions using either the front panel or the remote control. Some people prefer to use the controls on JB7's front panel, some prefer to use the remote – you will soon work out what is best for you.

Note that the main control knob on the front panel functions in two ways. **Turning** the knob changes volume, cycles through menu options, and chooses alphanumeric characters. **Pushing** the knob in displays the menu and confirms your choices.

The display offers context-sensitive help – it tells you which buttons to press. Experiment with the menu (you won't break anything).



To do this on the front panel	... do this on the remote
start the onscreen menu	push in the main control knob	press the menu button
scroll through menu choices	turn the main control knob	press the up and down arrow buttons
select a displayed item	push in the main control knob	press the OK button
pick a letter during text searches	turn the main control knob	press the letter buttons
increase or decrease the volume	turn the main control knob	press vol+ to increase or vol– to decrease
go back	press the back button	press the back button
go to the next track	press the next button	press the next button
go to the previous track	press the back button	press the prev button
delete letters when entering text	press the back button	press the del button
turn on and play random tracks from standby	press the next button	press the next button
go to the next step in the menu	turn the main control knob	press the up and down arrow buttons
play a track	press the play/stop button	press the play/stop button
pause/stop a track	press the play/stop button	press the play/stop button
unpause a track	press the play/stop button	press the play/stop button
stop all operations on your JB7 (the 'panic button'!)	press and hold the play/stop button	press and hold the play/stop button
eject a CD	press the eject button	press the eject button

menu system

To start the menu from the front panel, push the main control knob then turn it to see the choices. Push it in again to select a choice.

To start the menu from the remote, press the menu button then press the up and down arrow buttons to see the choices available. Press the OK button to select a choice.

To exit the menu system completely, press and hold the back button.

The tables below provide a summary of the menus on JB7, the functions available under each menu, and an explanation of what each function does. They also indicate whether and how a function can be accessed via a shortcut on the remote control.

You can often access functions in several ways, and the tables will show you where to find a particular function under each of the menus.

Main Menu

Functions	What the function does	Instructions on page ...	Remote control shortcut button
Track Search	Searches for tracks in your collection	19	Find button
Album Search	Searches for albums in your collection, and starts the Album menu	19	
History	Scrolls through the tracks you have played previously	18	History button
Browse Albums	Browses the albums in your collection	17	
Playlists	Edits and clears playlists, and sends playlists to the USB	22	
Current Track	Selects the currently playing track, and starts the Track menu	21	
CD Functions	Starts the CD menu	16	
USB Functions	Starts the USB menu	24	
Settings	Starts the Settings menu	26	
Recording Menu	Selects the Aux input, and starts the Recording menu	28	
Disk Stats	Displays a summary of the hard disk usage, how many CDs and tracks you have loaded, how many have been converted into MP3, how much space has been used, and how much is free		Info button

Track Menu

Functions	What the function does	Instructions on page ...	Remote control shortcut button
Play Track	Plays the selected track		
Delete Track	Deletes the selected track	20	
Add to Playlist	Adds the selected track to a playlist	22	
Rename Track	Changes the track name	20	
Album Menu	Selects an album for a selected track	see below	
Track to USB	Transfers the selected track to the USB device	23	Rip button

Album Menu

Functions	What the function does	Instructions on page ...
Delete Album	Deletes the selected album	20
Play Album	Plays the selected album	
Pick Track	Picks a track from a selected album	19
Add to Playlist	Adds the current album to a playlist	22
Reindex Album	Renames a previously unknown album when the database is updated	21
Album to USB	Transfers a selected album to the USB device	23

Playlist Menu

Functions	What the function does	Instructions on page ...	Remote control shortcut button
Add to Playlist	Adds the current track to a playlist	22	Press and hold corresponding number button
Play Playlist	Selects and plays a playlist	22	Press the corresponding number button twice
Playlist to USB	Transfers all tracks on a selected playlist to the USB device	23	
Clear Playlist	Removes all tracks from a selected playlist	22	
Edit Playlist	Cuts and pastes tracks in the selected playlist	22	

To turn playlists off and resume normal play press the Zero button on the remote.

CD Menu

Functions	What the function does	Instructions on page ...
Load CD to HD	Loads an entire CD to the internal hard disk drive (HDD)	16
Play CD	Plays the CD from track 1	18
CD to USB	Copies the entire CD to the USB device	23
Track to HDD	Loads one track from a CD to the internal hard disk	16
Track to USB	Loads one track from the CD to the USB device	23
Go to Track	Plays a specific track on the CD	18
Update Cddb	Installs a new album database from CD-ROM	25

USB Menu

Functions	What the function does	Instructions on page ...	Remote control shortcut button
Play USB	Plays music from an attached USB device	18	
Track to USB	Copies the currently playing track to a USB device	23	Rip button
Backup Music	Makes a backup copy of your music to a USB device	25	
Restore Music	Recovers music from a backup USB hard drive	25	
USB Directory	Determines the target directory for tracks transferred to a USB device	24	
Playlist to USB	Transfers all tracks on a selected playlist to a USB device	23	
Export Names	Creates a file on a USB device called 'JB7 catalogue', which contains the names of all the albums and tracks stored on JB7	24	
Import Names	Renames any tracks and albums changed in the 'JB7 catalogue' file	25	

displays

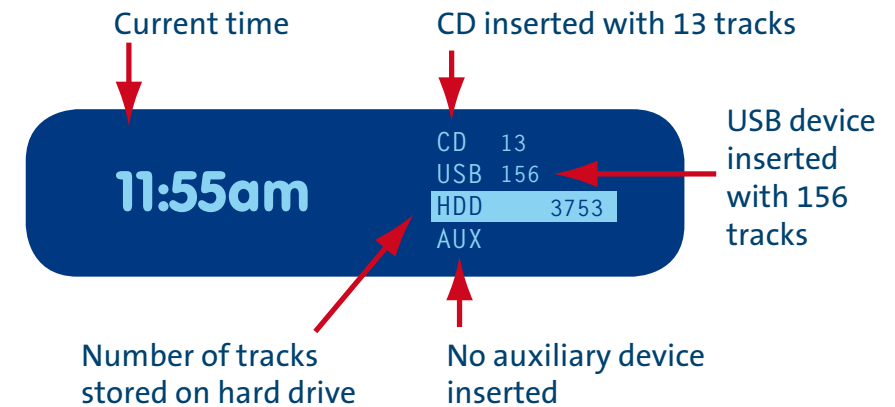
Settings Menu

Functions	What the function does	Instructions on page ...	Remote control shortcut button
Play Mode	Selects the mode in which to play a track	26	Press the Rand button for random mode, or the Intro button for intro mode
Bass	Adjusts the amount of bass	26	
Treble	Adjusts the amount of treble	26	
Set Time	Adjusts the time displayed on JB7	26	
Set Alarm	Sets an alarm time	26	
Compression	Gives four settings for levels of compression, from no compression to high quality	27	
Brightness	Adjusts the display brightness	27	
Maintenance	Resets settings, erases all music, disk check, etc.	27	
New CDDB	Installs a new album database from a CD-ROM	25	
S/W Upgrade	Upgrades the product operating system from a data CD	25	

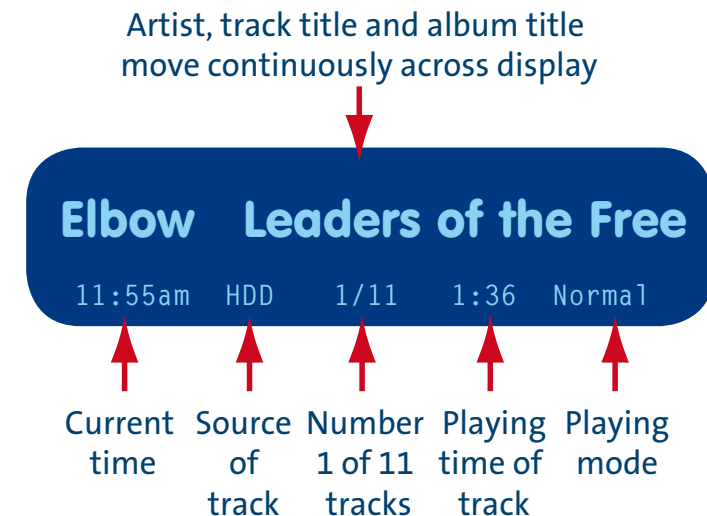
Recording Menu (selecting this menu automatically selects the auxiliary input)

Functions	What the function does	Instructions on page ...	Remote control shortcut button
Start Recording	Starts recording from the Aux input to a file in the 'Recordings' album	28	Press the Aux button, then the Rec button
Stop Recording	Stops the recording	28	Press the Rec button
Recording Level	Adjusts the recording level to limit distortion or clipping	28	
Recording Time	Sets the recording time from 0 to 99 minutes	28	

When JB7 is not playing



When JB7 is playing



loading music

JB7's primary function is to store a large number of CD albums on one device, so you can find and play tracks easily and start enjoying your whole music collection again. This does mean that you have to transfer the music on your CDs onto JB7, but you only need to do it once, and we have made the operation as quick and effortless as we possibly can.

Load your CDs using the front-loading CD reader on the front of JB7, which detects and gently draws in the CD as you insert it, and then automatically ejects it when the contents have been transferred. You can comfortably load twenty to thirty CDs on to JB7 in an evening.

To load a CD onto the hard disk

- 1 Insert the CD gently into the slot until it is drawn in.
- 2 The CD menu will automatically start after a few seconds, displaying the 'Load CD to HD' option.
- 3 Push the main control knob in to choose that option, and to load the CD.
- 4 Turn the knob to view the album name choices for the CD in the album database, and push the knob in to select the appropriate album name.
- 5 If the suggested names do not match the CD, select the option 'Other'.

You will then be presented with a temporary name for the CD, something like 'album123'. It's quicker to edit the name at this point before loading than rename the album after it is loaded. Track names will be given temporary names, 'track1', 'track2' and so on. To rename the album, see 'To rename an album' on page 21.

- 6 The CD will then start to load onto the HD, and progress will be displayed on the front panel.
- 7 You can use JB7 as usual whilst the CD loads, although loading will slow down a bit because the system is doing two things at once.

- 8 You can stop a CD loading by ejecting the CD, or by pressing and holding the Play/Stop button.
- 9 Once the CD has fully loaded, JB7 will automatically eject the CD.

To load a track onto the hard disk

- 1 Insert the CD gently into the slot until it is drawn in.
- 2 The CD menu will automatically start after a few seconds.
- 3 Turn the main control knob until it shows Track to HDD, and push the knob in.
- 4 Turn the knob to view the album name choices for the CD in the album database, and push the knob in to select the appropriate album name.
- 5 If the suggested names do not match the CD, select the option 'Other'.
- 6 You will then be presented with a temporary name for the CD, something like 'album123'. Track names will be given temporary names, 'track1', 'track2', and so on. To rename the album, see page 21.
- 7 Turn the main control knob to scroll through a list of tracks, and push the knob to select a track. This will load your chosen track onto JB7. Progress will be displayed on the front panel. Press the Eject button to retrieve the CD.

playing music

Once you have loaded your first album, you can start playing your first transferred tracks.

To play an album or track, push in the control knob to show the main menu. Turn it to Browse Albums, push to select, then turn it again to scroll to the album you would like to play. Select it by pushing the knob, then press the Play/Stop button to play it.

To play a particular album

If you know the name of the album you wish to play, follow the steps in the section 'To search for an album' on page 20.

If you do not know the name of the track you wish to play, follow steps under the section 'To browse albums' below.

To play tracks randomly

A quick way to enter Random Mode is to press Next when JB7 is stopped. Alternatively, if already in use, on the front panel push the main control knob and turn the knob to select Settings, then Play Mode. Scroll through the options and select Random Mode.

While a track is playing, press the Rand button on the remote control. Keep pressing Rand to select Random On or Random Off. Selecting Random Off will play tracks in the order they appear in their albums, and albums in the order you loaded them onto your JB7.

To browse albums

On the front panel

- 1 Push the main control knob to start the main menu, then turn it to scroll to Browse Albums and push to select.
- 2 Scroll to the album you want to play, then press the Play/Stop button.

On the remote control

- 1 Press the Menu button, then use the up and down arrow buttons to scroll to Browse Albums. Press OK to select.

- 2 Scroll through albums with the up and down arrow buttons.

- 3 Press the Play/Stop button to play the album.

To browse all tracks

If you know the name of the track you wish to play, follow the steps in the section 'To search for a track on the HD or USB drive' on page 19.

If you do not know the name of the track you wish to play, you can browse tracks as follows.

On the front panel

- 1 Push the main control knob to start the main menu, then turn the knob and scroll to Track Search. Select it by pushing the knob.
- 2 Instead of entering letters as you would to search for a specific track, press the Next button.
- 3 This will show you a list of all the tracks loaded onto JB7 in the order that you loaded them. Turn the knob to scroll through the tracks and push the knob to select one.

On the remote control

- 1 Press the Find button.
- 2 Press the Next button.
- 3 Press the up and down arrow buttons to scroll down the list of tracks, then press OK to select one.

To play a CD

On the front panel

- 1 Insert the CD, then press the Play button; alternatively you can select Play CD from the CD Menu.
- 2 If the CD has already been inserted into the player, push the main control knob to access the Main Menu, scroll to select CD Functions, select the Play CD option, and push the main control knob again to play the CD.

On the remote control

Press the CD button, then the Play button.

To play a specific track on a CD

- 1 The CD menu will automatically start when you insert a CD; alternatively push and turn the main control knob to scroll through the main menu to select CD Functions, then push the knob.
- 2 Turn the knob to scroll to Go to Track, and push the knob to select this option.
- 3 You will be asked to select the album name. Do this by turning the knob and pushing it to select the appropriate name.
- 4 Select the track you wish to play by pushing the knob.

To play music from a USB device

On the front panel

- 1 Insert the USB device.
- 2 Push the main control knob to start the main menu.
- 3 Turn the knob to select USB Functions and push it to select the option. Turn the knob again and push it to select Play USB.

⇄ USB functions

MAIN Transfer to/from USB

On the remote control

- 1 Insert the USB device.
- 2 Press the USB button, then press the Play/Stop button.

To play and search tracks solely from the USB device, select USB on the remote.

To play and search tracks from both the internal disk and the USB device, select HDD USB on the remote.

To scroll through previously played tracks and play them again

On the front panel

- 1 Push the main control knob to start the main menu, then turn it to scroll to History and push to select.
- 2 Select a track to play by pressing the Play/Stop button.

On the remote control

- 1 Press the History button.
- 2 Recently played tracks will appear on the front panel display. The track index is shown as a negative number, so -1 means this was the last track that was played, -2 the track before that, and so on.
- 3 Scroll through the list of previous tracks using the up and down arrow buttons.
- 4 Select a track to play by pressing the Play/Stop button.

The History function will remember tracks played from the HD or a USB device, but not tracks played from a CD. Tracks are only recorded once in the History, so if you keep replaying a track it won't keep getting repeated in the History list.

searching for a track or album

To search for a track on the HDD or a USB drive

If USB is selected on the remote then track search will only search the USB device. If HDD+USB is selected on the remote, track search will search the internal disk and the USB device.

On the front panel

- 1 Push the main control knob to start the main menu. Turn the knob until it shows Track Search, then push it to select.
- 2 Turn the control knob again – letters will appear on the front panel.
- 3 Push the knob to select a letter.
- 4 Repeat the process, pressing the Back button if you need to delete the last letter you've entered.
- 5 JB7 will search for tracks after each letter is entered, and display the number of matching tracks found.
- 6 The search is not case sensitive, and looks for the letter combination anywhere in the title. For example, if you enter the letters 'elv' this might match with both 'Elvis' and 'velvet'.
- 7 When the number of matches is low enough (say under twenty), press the Next button. This will show the list of matches.
- 8 Turn the control knob to view the list of tracks. Matches on an attached USB device are shown with a small letter 'u'.
- 9 If the matches don't fit what you are looking for, press the Back button and re-enter the letters.
- 10 To play a track, scroll to the track with the control knob, then press the Play/Stop button.

11 If you want to do something else with the track, for example transfer it to a USB device, push the control knob. This will take you to the track menu.

On the remote control

- 1 Press the Find button.
- 2 Use the buttons on the remote control to enter letters, in the same way as a mobile phone – for example press the number 2 button once for a, twice for b, three times for c.
- 3 If you need to delete the last letter you've entered, press the Del button.
- 4 JB7 will search for tracks after every letter is entered, and display the number of matching tracks found on the front panel.
- 5 The search is not case sensitive, and looks for the letter combination anywhere in the title. For example, if you enter the letters 'elv' this might match with both 'Elvis' and 'velvet'.
- 6 When the number of matches is low enough (say under twenty), press the Next button. This will select a list of tracks.
- 7 Press the up and down arrow buttons to see the track names if there is more than one match. Matches on an attached USB device are shown with a small letter 'u'.
- 8 If the matches don't fit what you are looking for, press the Back button and re-enter the letters.
- 9 To play a track, scroll to the track using the up and down arrow buttons, then press the Play/Stop button.
- 10 If you want to do something else with the track, for example, transfer it to a USB device, press OK. This will take you to the track menu.

To search for an album

On the front panel

- 1 Push the main control knob to start the main menu, then turn it to scroll to Album Search and push to select.
- 2 Follow steps 2–11 (front panel) of 'To search for a track'.

On the remote control

- 1 Press the Menu button, then use the up and down arrow buttons to scroll to Album Search. Press OK to select.
- 2 Follow steps 2–10 (remote control) of 'To search for a track'.

JB7 can search for albums on a connected USB device. If the tracks on the USB device are in folders, JB7 will treat the folders as albums and can search for them.

deleting tracks and albums

To delete a track

On the front panel

- 1 Select the track you want to delete by following steps 1–9 of 'To search for a track'.
- 2 Turn the main control knob to find Delete Track, and push to select.
- 3 You will be asked 'Are you sure?' Push the knob again to confirm that you want to delete the track.

On the remote control

- 1 Select the track you want to delete by following steps 1–8 of 'To search for a track'.
- 2 Press OK to select a track.
- 3 Press the up and down arrow buttons and select Delete Track.
- 4 You will be asked 'Are you sure?' Press OK to confirm you wish to delete the track.

To delete an album

To delete an album, follow the same steps as 'To delete a track' but scroll to Album Search and select an album instead.

editing track and album titles

To rename a track

This is useful if you have loaded a CD which the album database has not recognised so has named the tracks 'track1', 'track2', and so on. After renaming you will be able to find the track more easily. Albums and tracks can both have names of up to 64 characters including spaces. These 64-character 'names' can include extra information such as artist, genre, year and composer – you can put

anything you find helpful, and edit them as many times as you want.

If you change the name after putting the track/album in a playlist JB7 will not find it, so edit the names before making a Playlist.

Note that when using either the front panel or the remote control, the name of the track may be longer than the length of the display can accommodate, so only part of the name near the cursor will be shown.

On the front panel

- 1 To rename a currently playing track, push the main control knob then select Current Track.
- 2 Turn the main control knob and select Rename Track.



- 3 The cursor will be positioned at the end of the text; you add or delete letters at this cursor.
- 4 Add letters by turning the main control knob to see the letters, then push the knob.
- 5 Press the Back button to delete letters.
- 6 Press the Next button when complete.

On the remote control

The advantage of using the remote control rather than the front panel to rename a track is that you can add or delete letters and move the cursor, so for example you can change or add letters in the middle of a track name. It is also the only way to insert capital letters.

- 1 To rename a currently playing track, press OK and use the up and down arrow buttons to select Current Track. Press OK, and use the up and down arrow buttons to find and select Rename Track.
- 2 Enter letters on the remote using the numeric buttons in the same way as texting on a mobile phone, e.g. press the '2' button once for 'a', twice for 'b', three times for 'c' and so on.
- 3 If you wish to enter a capital letter, these appear after the lower case letters, so keep pressing until they appear.
- 4 To delete a letter press the Del button.
- 5 To move the cursor left and right, press the Prev and Next buttons.
- 6 When you've finished entering the letters, press OK.

To rename an album

On the front panel

- 1 Push the main control knob and select the album using Browse Albums (or use the Album Search on page 20, then turn the knob to Rename Album).
- 2 Select the album you wish to rename by scrolling through the choices and pushing the knob to select.
- 3 Turn the knob to scroll to Rename Album. Follow steps 3–6 in 'To rename a track'.

On the remote control

- 1 Press the Menu button, then use the up and down arrow buttons to scroll to Browse Albums.
- 2 Use the up and down arrow buttons to scroll through albums, and press the OK button to select the album you wish to rename.
- 3 Use the up and down arrow buttons to select Rename Album.
- 4 Follow steps 2–7 in 'To rename a track'.

To reindex an album

This can be used when the album database is updated to include recently published CDs which were not in the old database.

On the front panel

- 1 Select the album that you wish to relabel. Push the main control knob, then turn to scroll to Reindex Album.
- 2 A list of possible album names will appear. Select the correct album name by turning the main control knob and pushing to select.

On the remote control

- 1 Follow steps 1–2 as for 'To rename an album' above.
- 2 Use the up and down arrow buttons to select Reindex Album.

playlists

JB7 lets you organise tracks or albums into selections called playlists. You can compile a playlist of your all-time favourite music, for example, or music for a particular occasion or purpose. You can create up to seven playlists, each represented by a colour of the rainbow – red, orange, yellow, green, blue, indigo and violet. Each playlist matches a named button on the remote control. Playlists can be played in order or at random.

Note that renaming a track or album will break the link between it and any playlist containing it.

To create a playlist

On the front panel

Add a currently playing track to a playlist by pushing the main control knob to show the main menu, then turn it to scroll to Current Track, followed by Add to Playlist. Turn the main control knob to scroll to the playlist you wish to add the track to, and push the knob to select.

To add an album to a playlist, push the main control knob to show the main menu, then turn it to scroll to Browse Albums, push again to show albums and turn to scroll through them. Push to select chosen album, then scroll to Add to Playlist. Push to select playlists then scroll to find chosen playlist.

On the remote control

Add a currently playing track to a playlist by pressing and holding the corresponding number button on the remote. For example, if you want to add a track to the orange playlist, just press and hold the orange button.

To clear a playlist

On the front panel

- 1 Push the main control knob to start the main menu, then turn the knob to scroll to Playlists. Select by pushing the knob.
- 2 Turn the knob to scroll to Clear Playlist and push to select.
- 3 Select which playlist you want to clear by turning the knob and pushing. Once you have pushed the knob again to confirm, all the tracks in the selected playlist will be deleted.

On the remote control

- 1 Press OK to show the main menu and scroll using the up and down arrow buttons, then press OK to select Playlists.
- 2 Use the up and down arrow buttons to select the Clear Playlists option.
- 3 Select which playlist you want to clear, and press OK to confirm. All the tracks in the selected playlist will be deleted.

To edit a playlist

This allows you to cut and paste tracks from one playlist to another. It relies on an invisible copy of a track, called the 'cut track' or clipboard (as on a PC). The clipboard can be either an album or a track and can be pasted many times in different playlists. It will remain in memory until another track or album is selected for cutting and pasting. If you want a copy of a track you must cut it and then immediately paste it back.

On the front panel

- 1 Push the main control knob to start the main menu, turn it to select Playlists, push and turn it to Edit Playlist, then push to select the required playlist.
- 2 Turn the knob to see all the items in the playlist.
- 3 Press the Eject button to cut an item.
- 4 Continue to cut items, or scroll to a new position and insert, or jump to a new playlist.
- 5 Push the knob again to insert the cut item.
- 6 Press the Next button when done. You will be returned to the normal display.

On the remote control

- 1 Press Menu, then use the up and down arrow buttons to select Playlists; press OK.
- 2 Select Edit Playlist, then press OK.
- 3 Use the up and down arrow buttons to scroll through the playlists. Select the playlist you wish to cut an item from by pressing OK.

- 4 Press the up and down arrow buttons to see the items in the playlist.
- 5 Press the Del button to cut an item.
- 6 Continue to cut items, or scroll to a new position and insert, or jump to a new playlist.
- 7 Press OK to insert the clipboard.
- 8 Press the Next button when done.

transferring music

JB7 is compatible with USB mass storage devices formatted with the FAT file system. In practice that means USB flash drives and correctly formatted USB hard drives but also includes simple (non-video) MP3 players, some mobile phones, iPods and even cameras. iPods are best played through an Apple Universal dock, although you can

charge them using the JB7 USB port. If you attach a USB device to JB7, it will treat it as a separate source of music or as an extension to the internal hard disk.

Note Do not send music from JB7 to an iPod, as the iPod will only play music loaded onto it via iTunes.

To transfer a track, playlist or album to a USB device

Insert the USB device.

On the front panel

- 1 To add a selected track, playlist or album push the main control knob, then turn the knob to scroll to Track Search, Playlists or Album Search. Select by pushing the knob.
- 2 Turn the knob to scroll to Track to USB, Playlist to USB or Album to USB, and push the knob to select.

On the remote control

- 1 To add the current track to the USB device press the Rip button on the remote.
- 2 Entire albums and playlists cannot be transferred using the Rip button on the remote. Instead, press Menu, then use the up and down arrow buttons and select Album Search or Playlists by pressing OK. Use the up

and down arrow buttons again to select the album or playlist and then press OK to select Album to USB or Playlist to USB.

To specify a target directory on the USB device, see page 24.

To transfer a track on a CD to a USB device

- 1 Insert the CD.
- 2 The CD menu will start automatically.
- 3 Turn the main control knob to scroll, then push the knob to select Track to USB.
- 4 Scroll to select which track you wish to transfer. This will then load the track to the USB device.
- 5 On the remote, this can be done when the track on the CD is playing. Just press the Rip button. Note that playing will stop as it is mechanically inefficient to rip and play the CD at the same time.

To rip a CD to a USB device

- 1 Insert the USB device.
- 2 Insert the CD into the slot gently until it is pulled inside.
- 3 Push the main control knob to start the main menu, then turn and push the knob to select CD to USB.
- 4 You will be asked to pick a name from the album database. Select by pushing the knob.
- 5 This will then copy the entire CD to the USB device. The CD will be compressed to MP3 format (for more information on compression, see page 27).

To determine the target directory for tracks transferred to the USB device

For many simple MP3 players, the root directory is OK and it is not necessary to determine a target directory. However this is useful when, for example, you wish to transfer tracks to a mobile telephone, as they will only play MP3 files in a specific directory. JB7 will allow you to pick a suitable directory or enter a user-defined directory.

Push the main control knob to start the main menu, then turn the knob and push to select USB Functions. Then turn and push the knob to select USB Directory.

Target directory for transfers to USB

2 Root
USB Destination directory

Several options will appear, these are

- 1 Automatic: JB7 decides on the directory
- 2 Root: the top level directory of the USB device
- 3 MP3
- 4 Mobile/audio
- 5 Music
- 6 Other

Choose the 'other' option if you need to define a different directory. You will then be allowed to edit the user-defined target directory.

Separate directories with a slash
(1 key on remote)

dir/subdir_
Enter text using remote

Note If you need to enter a forward slash between directories for a nested target directory, use the remote control, as you cannot enter forward slash from the front panel. The forward slash is found if you keep pressing the '1' button.

To export names to a USB device

If you need to make substantial changes to track and album titles it is possible to export these to a text file, and then make the changes to this file. It is worth making small changes and reimporting to avoid making errors.

Note Do not change the number of lines in the file and avoid punctuation marks in the names.

- 1 Insert the USB device (e.g. memory stick).
- 2 Push the main control knob to start the main menu, then turn the knob to scroll to USB Functions. Select it by pushing the knob.
- 3 Turn the knob, scroll to Export Names, and push to select.
- 4 JB7 will then create a file on the USB device called 'jb7 catalogue'. The file contains the names of all the albums and tracks stored on JB7, which allows you to rename lots of tracks and album names in a convenient way.
- 5 In the file you will find the album name, album identifier, number of tracks and track names. Only track names and album names should be edited. Use a simple text editor like notepad not a word processor.

To import names from a USB device

If you have edited album and track names in the 'jb7 catalogue' you can then import the edited names from the USB device back onto JB7.

- 1 Push the main control knob to start the main menu, then turn the knob to scroll to USB Functions. Select it by pushing the knob.
- 2 Turn the knob again, scroll to Import Names, and push to select. JB7 will then rename files changed in the 'jb7 catalogue'.

updating and backing up

To update the CDDB (the album names database)

- 1 Insert the CD-ROM with the new album database.
 - 2 The CD menu will start automatically. Alternatively push and turn the knob to scroll to select CD Functions.
 - 3 Turn the knob and push to select Update CDDB. The new album database will be installed.
- Note** This is derived from a database known as CDDB that contains details on more than 2 million CDs. The file on the CD-ROM, actually called SQDB, is over 500 megabytes and is decompressed as it is loaded. Progress will be displayed on the front display panel with snippets from the database. The whole process will take around 20 minutes. If you interrupt the update you will be left without a valid album database and will have to start again.

To upgrade the product operating system

The software upgrade is sent as a zip file. Open the zip file, right click on the file JB1.hex, and save it to a datastick. Plug the datastick into JB7's USB port. Scroll to USB Functions. Select S/W Upgrade and push the knob in. You will see flashing digits on the main display for a minute or so, and will then be prompted to 'turn on and off'.

Warning This operation overwrites the operating system and can render the system inoperable. Only use with data supplied by 3GA and do not interrupt the process.

To make a backup copy of your music to a USB device

- 1 Plug in the USB hard disk.
- 2 Push the main control knob to start the main menu, then turn the knob to scroll and select USB Functions, then Backup Music.
- 3 While the system is doing a backup (and not otherwise engaged) it displays the number of tracks backed up and progress of the current track.

Note The internal hard disk is a mechanical device like the engine on a car, and is subject to wear and breakdown. It makes sense to make a backup of the music to save having to reload the CDs in the event of a breakdown. To backup the music you will need a USB hard drive formatted with FAT32 and with sufficient capacity. You can find how much space is used by the music on the internal disk drive by selecting Disk Stats in the main menu. Backup is time-consuming but is incremental and is done in the background. You can interrupt a backup and restart it later. If you buy a second JB7 for another room in your home, you can use the backup to load the second JB7 rather than reload all your CDs onto the second system.

To recover music from a backup USB hard drive

- 1 Attach the backup USB hard drive.
- 2 Push the main control knob to start the main menu, then turn the knob to scroll and select USB Functions, then Restore Music.

settings

To set a play mode

On the front panel

- 1 Push the main control knob to start the main menu, then turn the knob to scroll to Settings. Select it by pushing the knob.
- 2 Turn the knob again and push it to select Play Mode.
- 3 Turn the knob to scroll through the options and press the knob to select either
 - a Normal Play: plays tracks in the order they appear on the CD and plays the CDs in the order they were loaded. When you pick an album – using Browse Albums or Album Search – then JB7 assumes you want to listen to the tracks in order and will select Normal mode automatically. Normal mode enables segue.
 - b Intro Mode: starts the next track after 12 seconds.
 - c Random Mode: plays tracks from any album on the hard disk (and on a USB device if plugged in) in a random order. It will first pick a random track, and if it has been played recently, it will try again and pick a different track.
 - d Random Intro: starts the next track after 12 seconds and plays the tracks in random order.
 - e Segue Off: stops a track blending into the next.
 - f Classical: turns off segue and stops playing at the end of each album.

Note Play mode can be set in the same way by using the remote control. Random and intro modes can be turned on and off with the corresponding buttons on the remote.

To adjust the amount of bass or treble

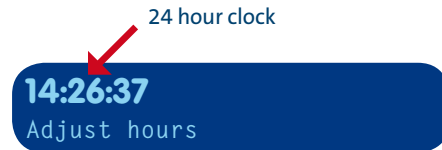
- 1 Push the main control knob to start the main menu, then turn the knob to scroll to Settings. Select it by pushing the knob.

- 2 Turn the knob again and push to select Bass or Treble.
- 3 Turning the main control knob will allow you to increase or decrease the levels of bass or treble. Push the knob to select the level you would like.

Note For the technically minded, the bass control uses a shelving filter with a corner frequency of 330Hz and -9.0dB to $+9.0\text{dB}$ gain in 1.5dB steps. The treble control is similar, but with a corner frequency of 3300Hz.

To set the time on JB7

- 1 Push the main control knob to start the main menu, then turn the knob to scroll to Settings. Select it by pushing the knob.
- 2 Turn the knob, scroll to Set Time, and push to select.



- 3 Turn the knob, or press the up and down arrow buttons on the remote control, to increase or decrease the hours. To advance to minutes, push the knob or press Next on the remote. Then push the knob or press Next on the remote to advance to seconds. Push the knob or press OK on the remote to set the time, and return to the normal display. To go back at any time, press the Back button.

Note The Set Time function uses a 24 hour clock even though the clock is displayed with am/pm. JB7 has a battery-backed clock so it will continue to run through power cuts.

To set an alarm

- 1 Push the main control knob to start the main menu, then turn the knob to scroll to Settings. Select it by pushing the knob.

- 2 Turn the knob, scroll to Set Alarm, and push to select.
- 3 Turn the knob, or press the up and down arrow buttons on the remote control, to increase or decrease the hours. To advance to minutes, push the knob or press Next on the remote. Press OK and then choose On or Off by turning the knob and pushing it to select.
- 4 Once the alarm is set the alarm time will appear on the left side of the display.



Note The alarm plays music at the current volume, so make sure the volume is set to the correct level.

To adjust or disable the level of data compression

Note When you load music, JB7 will compress the music to MP3 format so that you can store more music on the hard disk. Compression reduces the amount of disk space used. Music is quickly loaded in raw form, and then JB7 compresses the music when it is in standby mode, to save time. During compression JB7 displays the percentage progress and the number of remaining uncompressed tracks.

JB7 allows you to choose the level of compression or disable compression. When compression is disabled, any CDs loaded will not be compressed. This may be useful if you wish to keep an exact copy of a CD. An uncompressed album will have a little letter 'p' next to the number when you browse through the albums. You can think of it as being protected or perfect.

Generally it is hard to notice when a track has been compressed but it occasionally will affect the sound quality. If you do encounter a CD that does not respond well to MP3 compression, reload the CD with the compression disabled. It will overwrite the previously compressed version – you don't have to delete it.

- 1 Push the main control knob to start the main menu, then turn the knob to scroll to Settings. Select it by pushing the knob.
- 2 Turn the knob, scroll to Compression, and push to select.
- 3 The following options will appear:
 - a No Compression: music will not be compressed
 - b Most Compress: 128k bits/sec
 - c Normal: 192k bits/sec
 - d High Quality: 320k bits/sec

The following table indicates how the compression level alters the number of CDs you can store on the hard drive.

Compression level	Size of JB7 hard drive		
	160G	320G	500G
128k	2500	5000	5000
192k	1600	3200	5000
320k	1000	2000	3000
Uncompressed	210	420	630

To adjust the display brightness

- 1 Push the main control knob to start the main menu, then turn the knob to scroll to Settings. Select it by pushing the knob.
- 2 Turn the knob, scroll to Brightness, and push to select.
- 3 JB7 has two levels of display brightness. Choose whichever one best suits your environment, and push the knob to select it.

The maintenance menu

You may be instructed to use this menu by our call centre if you have a problem with your JB7. Unless you are particularly techie, it is probably best avoided.

recording

JB7 can record music from an external source (such as a radio or record player) using the Aux in input. You will need a cable that plugs into an output of the source device, with a 3.5mm headphone jack to plug into the Aux in (see the Quickstart Guide for an illustration).

Recordings will be saved into an album called 'Recordings' and named sequentially (Aux 1, Aux 2, etc.). You will need to adjust the recording level for optimum quality. There is a recording timeout which will stop the recording after a fixed time – this is to avoid accidentally recording a month's worth of silence!

To start a recording from the Aux input

On the front panel

1 Push the main control knob to start the main menu, then turn the knob to scroll to Recording. Select it by pushing the knob.

2 Turn the knob, scroll to Start Recording, and push to select. It will record from the Aux input to a file with a name like Aux1, Aux 2, etc. in an album called 'Recordings'. You can then edit the name of the 'Recordings' album to reflect what you recorded, and subsequent recordings will be put in a new 'Recordings' album. For instructions on renaming tracks and albums, see page 20.

On the remote control

Press the Aux button, then the Rec button. Recording will continue up to a maximum time or can be stopped (see below for instructions).

To stop a recording

On the front panel

Press the Play/Stop button.

On the remote control

Press the Rec button. To stop one recording and start another (e.g. between tracks) press Rec twice.

To adjust the recording level

1 Push the main control knob to start the main menu, then turn the knob to scroll to Recording. Select it by pushing the knob.

2 Turn the knob, scroll to Recording Level, and push to select. For best results the recording level should be as high as possible without distortion or clipping on the loudest passages of music. To test this, make sure that something is being played into the Aux in. Once you are at the loudest part of the music, set the recording level as high as possible but ensure the audio does not distort.

To adjust the recording time

To avoid filling the hard disk with silence if you forget to stop recording, JB7 has a recording timeout, which will automatically stop recording after a specified time.

1 Push the main control knob to start the main menu, then turn the knob to scroll to Recording. Select it by pushing the knob.

2 Turn the knob, scroll to Recording Time, and push to select. Turn the knob to increase or decrease the time, and choose from 0 to 99 minutes.

about the album database

The album database is derived from freedb.org, a public domain album database. The database is updated every month, and can be obtained through the Brennan website at www.brennan.co.uk. The database currently has the album and track names for 2,700,000 CDs, and JB7 owners typically find that 95–97% of their CDs are in the database. The database has been compiled by members of the public over many years, so may contain misspellings and other oddities. CDs do not, in general, contain information about album and track names, and a CD has to be identified by the

pattern of track lengths. This pattern is a kind of fingerprint used to find the details in the album database. Often several CDs share the same fingerprint, which is why you sometimes need to select the right details when loading a CD. On occasions a music publisher releases different recordings of a CD, so the fingerprint on your CD no longer matches the details in the database. If that happens you can enter the album name manually, and name your favourite tracks. See page 25 for how to load the album database.

common questions

Can I use my JB7 when in another country?

The AC adapter is universal, so you just need to substitute the mains lead to work with your particular country's mains sockets.

Will the database recognise the names of albums on a USB?

The database will only recognise the names of tracks and albums loaded from a CD.

Do I need to leave JB7 on constantly?

You can turn JB7 off at any time as long as it is not in the middle of completing a task. A good way to turn off JB7 is to press and hold the stop button – twice. This stops everything and parks the disk drive heads.

What level of compression is best?

The normal level of compression recommended is 192k. If you notice that the music quality is not as good as you think it should be, try compressing it at the high quality level of 320k. If this is still not satisfactory, do not compress the music at all.

Can I delete tracks and rearrange them?

You can delete tracks from the HDD. You cannot rearrange tracks on an album, but you can make a playlist with them in any order.

troubleshooting

Having loaded the CDs onto JB7, can I rearrange their numerical order?

You cannot rearrange the numerical order of the CDs once they are loaded onto JB7, but you can make a playlist with them in any order.

How do I move a CD from one playlist to another?

You first need to select the album by using Browse album or Find album. This will take you to the Album menu, where you can select the option Add to playlist. You can then use the Edit playlist function to remove it from the first playlist.

Is the power supply only 240V?

The power supply works on 110V or 240V.

Can I use JB7 as an alarm clock?

Yes. This can be done in Settings under the main menu.

Can I use JB7 with an amplifier?

Yes. Although it is not necessary, many people use their JB7 with an amplifier. This can be done by using either JB7 line out or Headphone out. It is usually beneficial to use Headphone out as JB7 will detect the headphone is being used and turn off the internal power amplifier. Also when using Headphone out it is possible to use the main volume control to control the volume.

Does JB7 support WMA (Windows Media Audio) format files?

JB7 does not play WMA files, but there are programmes such as Switch freely available on the internet which convert WMA files to MP3. Once you have them in an MP3 format you will be able to put them onto a USB drive and load them onto JB7 as normal.

Will my iPod work with JB7?

iTunes tracks can be converted to MP3s using free software that can be downloaded from the internet. The best way to play your iPod through JB7 is via the line-in connector so that you can select tracks and use the iPod menu structure. You may be able to transfer the contents of the iPod to JB7, but all tracks will be in a single album without track information. Tracks can be 'played' from the attached device but, again, you cannot select or search the tracks.

What is the best way to get music from JB7 onto my iPod?

Transfer the music from JB7 onto a USB memory stick. Then plug the memory stick into a PC. Copy the MP3s to a folder on the PC then use iTunes to load the MP3s onto your iPod.

Does JB7 have an internal amp?

Yes. The internal 60W amp can be bypassed via the headphone socket if you wish to use a different amp.

Can you search for an artist or composer?

Yes. The artist or composer is usually appended to the album name (or to the track name for compilations of various artists). For example, if you use the Search albums function and search for 'mend' you will find all albums with Mendelssohn in the name.

My JB7 is freezing and sticking

Try turning JB7 on and off at the mains. If this does not work, follow the commands below for 'The display is saying "Disk error"'.

The display is saying 'Disk error' in big writing

Try the following commands:

- Main menu—Settings—Maintenance—Clean up
- Main menu—Settings—Maintenance—Reset settings
- Map disk (note that this can take up to 20 hours).

There is no sound coming from my speakers or only one speaker is working

- Loudspeakers are disabled by headphones so please remove them.
- If the left speaker has no sound, try swapping the speakers. If the sound then appears on the left speaker, the other speaker is faulty.
- Make sure the speaker wire is not forced in all the way to the back of JB7.

If the problem persists, please call our technical support team.

My remote control is not working

Try changing the battery in the remote.

My JB7 is skipping tracks

Make sure the Random mode is turned off. You can do this by pressing Play mode in Settings and changing the mode.

If the problem persists, try the following commands:

- Settings—Maintenance—Clean up
- Settings—Maintenance—Reset settings.

If the problem persists, please call our technical support team.

My JB7 keeps rejecting CDs

Try washing the CD by hand with Fairy Liquid. Rinse in cold water then dab dry with a soft cloth.

There's a CD stuck in my JB7

- Hold down the eject button
- Still holding the eject button, turn off the power
- Still holding the eject button, turn the power back on.

You can try to avoid this problem by not using flexible free CDs or CDs with thick labels in JB7, as these can damage your Brennan CD mechanism.

My JB7 keeps removing the prolonged gaps from my music. How do I stop this?

If you turn off 'segue', this will play the music in the original format with no gaps.

For solutions to other problems visit the Brennan website at

www.brennan.co.uk

or call the technical support team on 0844 561 0443

guarantee

Your JB7 has a twelve-month guarantee.

If you have any problems give us a call on **0844 561 0443**

After twelve months we will repair your JB7
for a fixed fee (call us for details).

You may wish to record your date of purchase here
for future reference.

repairs and returns

Please telephone us and we will arrange collection
or provide you with the address of our service centre.

Do not send your JB7 to the Head Office.

contact us

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For up to date information and instruction videos
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