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Congratulations on your purchase
and welcome to Philips!
To fully benefit from the support that
Philips offers, register your product
at www.philips.com/welcome

Digital audio player

Need help?

Please visit

www.philips.com/welcome

where you can access a full set of supporting materials such as user manual, the latest software updates and answers to frequently asked questions.

Contents

1	Important safety information	1
2	Your new player	5
2.1	What's in the box	5
2.2	Register your product	5
3	Getting started	6
3.1	Overview of controls and connections	6
3.2	Main menu	7
3.3	Install	7
3.4	Connect and charge	8
3.4.1	Use the supplied USB cable	8
3.4.2	Battery level indication	8
3.5	Transfer	9
3.5.1	Disconnect your player safely	9
3.6	Enjoy	9
3.6.1	Turn on and off	9
3.6.2	Navigate the menu	9
3.6.3	Lock slider	9
4	Detail operation	10
4.1	Music mode	10
4.1.1	Control	10
4.1.2	Find your music	11
4.1.3	Limit the volume	11
4.2	Radio ¹	12
4.2.1	Auto tune radio stations:	12
4.2.2	Play a preset radio station	12
4.2.3	Manual tune a radio station:	13
4.2.4	Save a new frequency under a preset:	13
4.2.5	Record from FM radio when the radio is playing:	13
4.3	Recordings	14
4.3.1	Play recordings	14
4.3.2	Delete your recording	14
4.3.3	Upload recordings to the computer	14
4.4	Settings	15
4.4.1	Equalizer custom settings	16
4.5	Use your player to store and carry data files	16
5	Update your player	17
5.1	Manually verify software status	17
6	Technical data	18
7	Frequently asked questions	20

¹ This feature is available only in some regions.

I Important safety information

General maintenance

To avoid damage or malfunction:

- Do not expose the player to excessive heat caused by heating equipment or direct sunlight.
- Do not drop your player or allow objects to fall on your player.
- Do not allow your player to be submerged in water. Do not expose headphone socket or battery compartment to water, as water entering the set may cause major damage.
- Do not use any cleaning agents containing alcohol, ammonia, benzene, or abrasives as these may harm the set.
- Active mobile phones in the vicinity may cause interference.
- Back up your files. Please ensure that you retain the original files you have downloaded to your device. Philips is not responsible for any loss of data if the product becomes damaged or not readable / legible.
- Manage (transfer, delete, etc.) your music files only with the supplied music software to avoid problems!

About operating and storage temperatures

- Operate in a place where temperature is always between 0 and 35°C (32 to 95°F)
- Store in a place where temperature is always between -20 and 45°C (-4 to 113°F)
- Battery life may be shortened in low temperature conditions.

Replacement parts/accessories

Visit www.philips.com/support to order replacement parts/accessories.

Hearing Safety

Listen at a moderate volume.

- Using headphones at a high volume can impair your hearing. This product can produce sounds in decibel ranges that may cause hearing loss for a normal person, even for exposure less than a minute. The higher decibel ranges are offered for those that may have already experienced some hearing loss.
- Sound can be deceiving. Over time your hearing “comfort level” adapts to higher volumes of sound. So after prolonged listening, what sounds “normal” can actually be loud and harmful to your hearing. To guard against this, set your volume to a safe level before your hearing adapts and leave it there.



To establish a safe volume level:

- Set your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, without distortion.

Listen for reasonable periods of time:

- Prolonged exposure to sound, even at normally “safe” levels, can also cause hearing loss.
- Be sure to use your equipment reasonably and take appropriate breaks.

Be sure to observe the following guidelines when using your headphones.

- Listen at reasonable volumes for reasonable periods of time.
- Be careful not to adjust the volume as your hearing adapts.
- Do not turn up the volume so high that you can't hear what's around you.
- You should use caution or temporarily discontinue use in potentially hazardous situations.
- Do not use headphones while operating a motorized vehicle, cycling, skateboarding, etc.; it may create a traffic hazard and is illegal in many areas.

Important (for models supplied with headphones):

Philips guarantees compliance with the maximum sound power of its audio players as determined by relevant regulatory bodies only with the original model of provided headphones. In case this one needs replacement, we recommend that you contact your retailer to order a model identical to that of the original, provided by Philips.

Copyright information

All other brands and product names are trademarks of their respective companies or organizations.

Unauthorized duplication of any recordings whether downloaded from the Internet or made from audio CDs is a violation of copyright laws and international treaties.

The making of unauthorized copies of copy-protected material, including computer programmes, files, broadcasts and sound recordings, may be an infringement of copyrights and constitute a criminal offence. This equipment should not be used for such purposes.

The Windows Media and the Windows logo are registered trademarks of Microsoft Corporation in the United States and/or other countries.

Data logging

Philips is committed to improving the quality of your product and enhancing the Philips user experience. To understand the usage profile of this device, this device logs some info / data to the non-volatile memory region of the device. These data are used to identify and detect any failures or problems you as a user may experience while using the device. The data stored, for example, will be the duration of playback in music mode, duration of playback in turner mode, how many times battery low was encountered, etc. The data stored do not reveal the content or media used on the device or the source of downloads. The data stored on the device are retrieved and used ONLY if the user returns the device to the Philips service centre and ONLY to simplify error detection and prevention. The data stored shall be made available to user on user's first request.

Disposal of your old product



Your product is designed and manufactured with high quality materials and components, which can be recycled and reused.

When this crossed-out wheeled bin symbol is attached to a product, it means the product is covered by the European Directive 2002/96/EC.

Please be informed about the local separate collection system for electrical and electronic products.

Please act according to your local rules and do not dispose of your old product with your normal household waste. The correct disposal of your old product will help prevent potential negative consequences to the environment and human health.

The build-in rechargeable battery contains substances that may pollute the environment. Always hand the appliance in at an official collection point to remove the battery before discarding the appliance. Battery should be disposed of at an official collection point.

Modifications

Modifications not authorized by the manufacturer may void user authority to operate this device.

Notice for USA

Note:

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 instruction manual, may cause harmful interference to radio communications.



However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

Notice for Canada

This Class B digital apparatus complies with Canadian ICES-003.

The set complies with the FCC-Rules, Part 15 and with 21 CFR 1040.10. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

Notice for the European Union

This product complies with the radio interference requirements of the European Union.

2 Your new player

With your newly purchased player, you can:

- play MP3 and WMA
- play FM radio¹
- record FM radio¹
- record with built-in microphone

2.1 What's in the box

The following accessories are included with your player:



Player



Headphones



USB cable



Neck strap



Quick start guide



CD-ROM containing Philips Device Manager,
User Manual and Frequently Asked Questions

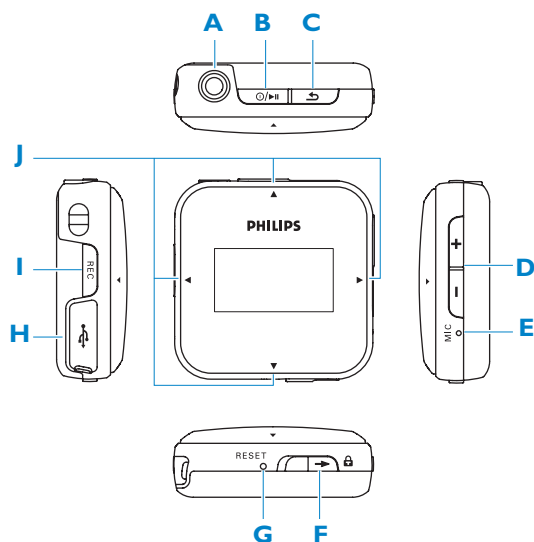
2.2 Register your product

We strongly recommend that you register your product in order to gain access to free updates. To register your product, please log on to www.philips.com/welcome so that we can inform you as soon as new updates become available.

¹ This feature is available only in some regions.

3 Getting started

3.1 Overview of controls and connections



A		Headphone jack
B		On / Off Play/Record / Pause Confirm selection
C		Back one level (hold to return to root menu)
D		Increases/decreases volume (hold to increase/decrease fast)
E		Microphone
F		Hold slider to lock/unlock all keys (except -Vol+)
G		RESET
H		USB connector
I		Record (long press)
J		Skip back (hold to quick skip)
		Skip forward (hold to quick skip)
		Scrolls up/down (hold to quick scroll)

3.2 Main menu

Menu	To
 Music	Play your digital music tracks
 Radio ¹	Listen to FM radio
 Recordings	Create or listen to recordings
 Folder view	View files in folders
 Settings	Customize the settings of your player

3.3 Install

 **Important** Make sure to install the software provided in the supplied CD for music transfer.

System requirements:

- Windows 2000, XP or Vista
- Pentium III 800MHz processor or higher
- 128MB RAM
- 500MB hard disk space
- Internet connection (preferable)
- Microsoft Internet Explorer 6.0 or later
- CD-ROM
- USB port

- 1 Insert the CD supplied with your product into the CD ROM drive of your PC.
- 2 Follow the on-screen instructions to complete the installation of **Philips Device Manager**.
- 3 If the installation program does not start automatically, browse the CD contents with **Windows Explorer** and double click on the file ending with .exe.

Lost your CD? Don't worry, you can download the CD contents from www.philips.com/support.

¹ This feature is available only in some regions.

3.4 Connect and charge

When you connect the player to the PC, it automatically charges.

3.4.1 Use the supplied USB cable

- 1 Before you use the player for the first time, charge it for at least 5 hours.
 - > The battery² has a 100% charge after 4 hours and an 80% charge after 2 hours.

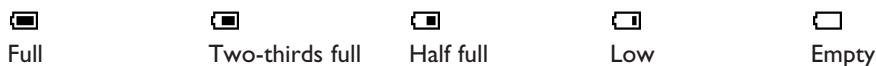


- 2 Connect the supplied USB cable to the mini USB port at the bottom of the player, the other end to your PC.
 - > The player will start to charge as soon as it is connected to your PC.

Note The player is fully charged when the charging animation stops and  is displayed. Your fully charged player will allow up to 20 hours² of music playback.

3.4.2 Battery level indication

The approximate power levels of your battery are indicated as follows:



Note When the batteries are almost empty, the low battery screen  blinks. The player saves all settings and unfinished recordings and switches off in less than 60 seconds.

² Rechargeable batteries have a limited number of charge cycles. Battery life and number of charge cycles vary by use and settings.

3.5 Transfer

The player appears as a USB mass storage device in **Windows Explorer**. You can organize files, and transfer music to your player during USB connection.

- 1 Click and highlight one or more songs to transfer between the player and the computer.
- 2 Use drag and drop actions to complete your transfer.

✳ **Tip** To transfer music CDs to the player use software such as Musicmatch Jukebox or Windows Media Player, rip (convert) the songs on your music CD into MP3/WMA files. Copy the files into the digital audio player via Windows Explorer. Free versions of these programs can be downloaded from the internet.

3.5.1 Disconnect your player safely

- 1 Exit any active application working with your player.
- 2 Remove your player safely by clicking  in the task tray shown in your PC.

3.6 Enjoy

3.6.1 Turn on and off

To turn on, press  until the display shows the Philips logo.

To turn off, press and hold  until the display shows 'Bye'.

✳ **Tip** If the player is idle and no button is pressed for 10 minutes, it switches off automatically.

3.6.2 Navigate the menu

Your player has an intuitive menu navigation system to guide you through various settings and operations.

Goal	Action
Return to previous menu	Press 
Return to main menu	Press and hold 
Browse through menus	Press  or 
Scroll through a list	Press  or 
Select an option	Press 

3.6.3 Lock slider

The player has a lock switch to prevent any accidental operation.

- 1 To lock the buttons when you play, move the lock slider to position .
> All buttons except **-VOL+** are locked and the display shows .
- 2 To unlock the buttons again, move the lock slider to position .

4 Detail operation

4.1 Music mode (also play mode for recordings)

Your player supports MP3 and WMA formats.

4.1.1 Control

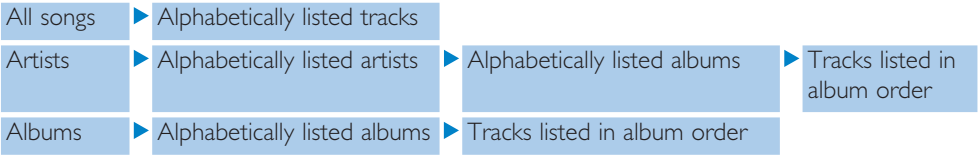
The player offers the following music mode options:

Goal	Action
Play / Pause music	Press ►
Skip to next audio file	Press ►
Return to previous audio file	Press ◀
Fast forward	Press and hold ►
Fast rewind	Press and hold ◀
Return to browsing menu	Long/short press ↶
Increase volume	Press VOL +
Decrease volume	Press VOL -

4.1.2 Find your music



- 1 From the main menu, select to enter music mode.
The player offers the following menu options:



- 2 Press or to scroll through the list.
- 3 Press to select or press to return to previous level.
- 4 Press to play.

Tip While playing in music mode, if you press pause or navigate away to listen to the radio for example, you can later resume the play by selecting 'Resume last' from the music mode display.

Note This player does not support copyright protected (Digital Rights Management – DRM) WMA songs bought from the Internet.

4.1.3 Limit the volume

Listening to loud sounds for longer than a moment can be harmful to the listener. You can set the volume level of the player to suit your preferences:

- 1 From the main menu, select **Settings** > **Sound settings** > **Volume limit** > **Set**.
- 2 Press **Vol-** or **Vol+** to adjust the level.
- 3 Press to set.



- > When you set a volume limit, you can no longer exceed the set volume, even if you press the **Vol+** button.

To enable maximum volume again, set the volume limit back to maximum or turn off, select **Settings** > **Sound settings** > **Volume limit** > **Off**.

4.2 Radio¹

From the main menu, select  to enter radio mode.

Connect the headphones

The supplied headphones serve as a radio antenna. Ensure you connect the headphones properly for an optimal reception.

4.2.1 Auto tune radio stations:

 **Note** The Auto tune function overwrites existing presets.



1 From the Radio menu , select **Auto tune**.

- > The radio automatically tunes radio stations and saves the frequencies to presets. The radio can store up to 20 radio station to presets.

To stop auto tuning, press .

To exit radio, long press .

4.2.2 Play a preset radio station

1 From the Radio menu , select **Presets**.

2 Press / to select preset,  to start playing.

3 Press / to change to another preset.



4 To fine tune frequency, quick press /.

5 To search for the next stronger signal, long press /.

To exit radio, long press .

¹ This feature is available only in some regions.

4.2.3 Manual tune a radio station:

- 1 From the Radio menu , select **Manual tune**.
 - > The play screen is displayed.
- 2 To fine tune frequency, quick press ▲/▼.
- 3 To search for the next stronger signal, long press ▲/▼.
To exit radio, long press .

4.2.4 Save a new frequency under a preset:

- 1 Tune to the new frequency you want to save.
- 2 Press  to enter preset screen.
- 3 Press ▲/▼ to select, then  to save.
To exit radio, long press .

4.2.5 Record from FM radio when the radio is playing:

- 1 To start recording, long press **REC**.
- 2 To stop recording, press .
- 3 To save the recording, press .
 - To cancel, press .
 - To exit radio, long press .

4.3 Recordings

You can record audio with the player. The section **Overview of controls and connections** shows you the location of the microphone.

- 1 Long press **REC** from all screens except Radio



> The player records and shows the recording display.

- 2 Press **>||** to pause.
- 3 Press **>** to stop and save the recording.
 - > Your recording will be saved on the player. (Filename format: VOICEXXX.WAV where XXX is the recording number which will be automatically generated.)
- 4 You can find this file under **>** > **Voice**.

Note To record FM radio, see section **Radio**.

4.3.1 Play recordings

From the main menu, select **>** > **Voice** or **FM radio**¹.

- 1 Select the recording you want to hear.
- 2 Press **>||** to confirm.

4.3.2 Delete your recording

Use your computer when you delete recordings on the computer.

- 1 Connect the player to the computer.
- 2 Select the player in **Window Explorer**.
- 3 Select **Recordings** > **Voice** or **FM radio**¹.
- 4 Select the files you want to delete and press **Delete** on the computer.

*** Tip** You can delete recordings from the play screen by holding **>**.

4.3.3 Upload recordings to the computer

- 1 Connect the player to your computer.
- 2 Select the player in **Windows Explorer**.
- 3 Select **Recordings** > **Voice** or **FM radio**¹.
- 4 Copy and paste the recordings to any desired location on the computer.

¹ This feature is available only in some regions.

4.4 Settings

You can set preferences in your player to suit your needs.



- 1 Press and select .
- 2 Press or to select an option.
- 3 Press to go to next level or to return to previous level.
- 4 Press to confirm your selection.
- 5 Press to exit the **Settings** menu

In the Settings menu, the following options are available:

Settings	Further Options	
Play mode	Off / Repeat 1 / Repeat all / Shuffle all / Repeat & shuffle	
Sound settings	Equalizer	Off / FullSound / Rock / Funk / Hip Hop / Jazz / Classical / Techno / Custom
	Volume limit	Off / Set
Language	English / French / Spanish / German / Dutch / Italian / Portuguese / Swedish / Polish / Norwegian / Russian / Turkish / Portuguese (Brazilian) / Hungarian / Finnish / Simplified Chinese / Traditional Chinese / Japanese / Korean	
Backlight timer	10 sec / 30 sec / 60 sec / Always on	
Screen saver	Off / Blank screen / Song title	
Information	Memory usage, Firmware version	
Factory settings	Restore to default factory settings	

4.4.1 Equalizer custom settings

You can customize the equalizer settings:

- 1 Long press  and select .
- 2 Press  or , then  to select **Sound settings**.
- 3 Press  or , then  to select **Equalizer**.
- 4 Press  or , then  to select **Custom**.
- 5 Press  or  to select equalizer band:
B = bass, **L** = low, **M** = mid, **H** = high, **T** = treble



- 6 Press  or  to adjust level.
> *Bar indicator shows current level.*
- 7 Press  to confirm your selection.
Press  to cancel the adjustments.
- 8 Press  to exit the **Settings** menu.

4.5 Use your player to store and carry data files

You can use your player to store and carry data files by copying data files into your player with **Windows Explorer**.

5 Update your player

Your player is controlled by an internal program called the firmware. Newer versions of the firmware may have been released after you have purchased your player.

A software program called **Philips Device Manager** checks for firmware updates that are available on the Internet.

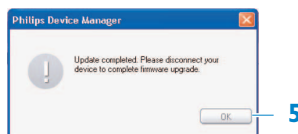
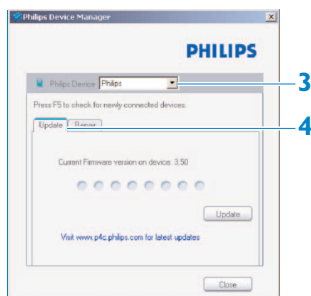
Install **Philips Device Manager** from the supplied CD or download the latest version from www.philips.com/support.

5.1 Manually verify software status

- 1 Make sure you are connected to the internet.
- 2 Connect your player to the computer.
- 3 To launch **Philips Device Manager** on the computer, click **Start > Programs > Philips Digital Audio Player > SA28XX > Philips SA28XX Device Manager**.



- 4 Click **Update**.



- > **Philips SA28XX Device Manager** checks for updates and installs new firmware, if it is available on the Internet.
- 5 When the display shows **Update completed**, click **OK**.
 - 6 Disconnect the player from the computer.
 - > The display shows **Updating firmware**.
The player automatically restarts after the firmware is updated. Your player is now ready for use again.

6 Technical data

Power

- Power supply
270mAh Li-ion internal rechargeable battery²

Display

- White backlight OLED, 128 x 64 pixels

Sound

- Channel separation: 40dB
- Equalizer setting:
Off / FullSound / Rock / Funk / Hip Hop / Jazz / Classical / Techno / Custom
- Frequency response: 80-18000Hz
- Signal to noise ratio: > 80dB
- Output Power (RMS): 2x3mW

Audio playback

- Compression format: MP3 (8-320kps and VBR, Sample rates: 8, 11.025, 16, 22.050, 24, 32, 44.1, 48kHz), WMA (32-192kbps, Sample rates: 8, 11.025, 16, 22.050, 24, 32, 44.1, 48kHz)
- Play time: 20 hours²
- ID3-tag support

Recording

- Audio Capturing: Build-in microphone (Mono)
- FM radio¹

Storage media

- Built-in memory capacity:
SA281x 1GB NAND Flash³
SA282x 2GB NAND Flash³
SA284x 4GB NAND Flash³
SA288x 8GB NAND Flash³

Connectivity

- Headphone 3.5mm, USB 2.0⁴

Music transfer

- Drag and drop in Windows Explorer

Data transfer

- Via Windows Explorer

System requirements

- Windows® 2000, XP, Vista
- Pentium III 800MHz processor or higher
- 128MB RAM
- 500MB hard disk space
- Internet connection
- Microsoft Internet Explorer 6.0 or later
- Video display card
- Sound card
- CD-ROM
- USB port

- ¹ *This feature is available only in some regions.*
- ² *Rechargeable batteries have a limited number of charge cycles. Battery life and number of charge cycles vary by use and settings.*
- ³ *1MB = 1 million bytes; available storage capacity will be less.
1GB = 1 billion bytes; available storage capacity will be less.
Full memory capacity may not be available as some memory will be reserved for the player.
Storage capacity based on 4 minutes per song and 64kbps WMA encoding.*
- ⁴ *Actual transfer speed may vary based on your operating system and software configuration.*

7 Frequently asked questions

If you encounter problems with your player, go through the following points listed in the next section. Please also check out FAQs at www.philips.com/support for further help and other troubleshooting tips.

Consult your dealer or service center if you are unable to find a solution by following these hints.

 **Warning** Under no circumstances should you try to repair the set yourself, as this will invalidate the warranty.

My player cannot power on.

- You may have failed to press and hold ►|| long enough. Press and hold ►|| until the Philips welcome screen appears on display.
- Your device battery may be out of power due to long period of non-usage. Please charge your player.

If none of the above works, then you may have to use the Device Manager to recover your player:

- 1 Launch the **Philips Device Manager** at **Start > Programs > Philips Digital Audio Player > SA28XX > Philips SA28XX Device Manager** on your PC.
- 2 Press and hold the ◀ button while your player is connecting to the PC.
- 3 Keep holding the key until the **Philips Device Manager** acknowledges your player and goes into recovery mode.
- 4 Click the **repair** button and follow the instructions given by the **Device Manager**.
- 5 After the player has been repaired, disconnect it from your PC and re-start.

There is no music on my player after transfer.

Are your songs in MP3 or WMA format?

Other formats will not playback on the player.

My player hangs.

- 1 In the unlikely event that your player hangs, do not panic. Insert a small pin or other sharp object into the reset hole located at the bottom of the player. Hold until the player shuts down.

 **Note** The existing contents on your player will not be erased.

- 2 If nothing happens, recharge the battery for at least 4 hours and try to power on or reset again. If this does not work, you might have to repair your player with **Philips Device Manager**.

There is no sound.

Make sure your headphones are inserted all the way into the headphones jack.

Some songs do not show up or playback on the player.

- This player does not support copyright protected (DRM) WMA tracks bought from on-line music stores, only unprotected WMA files can be played back on this player. The song is in a format that is not supported by the player. Only MP3, WMA are supported.
- The audio file might be corrupted, try to playback the file on your PC first. If it does not play, rip the song again.

PHILIPS reserves the right to make design and specification changes for product improvement without prior notice.

Disposal of your old product and the integrated battery

All our products are designed and manufactured with high quality materials and components, which can be recycled and reused.

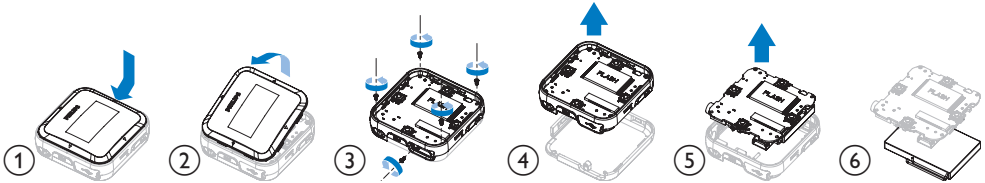


The crossed-out wheel bin symbol on a product means that the product is subject to the European Directive 2002/96/EC. This symbol can also be used in combination with a chemical symbol, which means that the product complies with the environmental directive for that chemical.

Never dispose of your product with other household waste. Inform yourself or ask your dealer about local environmentally safe recycling regulations. The correct disposal of your old product helps prevent potentially negative consequences for the environment and human health.

Your product contains a built-in rechargeable battery covered by the European Directive 2006/66/EC, which cannot be disposed with normal household waste.

To safeguard the functionality and safety of your product, always bring your product to an official collection point or service centre where a professional can remove / replace the battery as shown.



Please inform yourself about the local rules on separate collection of batteries because the correct disposal will help prevent negative consequences for the environmental and human health.



Be responsible
Respect copyrights

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