

Always there to help you

Register your product and get support at
www.philips.com/welcome



CED110



User manual

PHILIPS

Contents

1	Safety	2
----------	---------------	----------

2	Your car entertainment system	3
	Introduction	3
	What's in the box	3
	Overview of the main unit	5
	Overview of the remote control	7

3	Install the car entertainment system	9
	Connect wires	9
	Mount into the dashboard	10
	Attach the front panel	11

4	Get started	13
	Prepare the remote control	13
	For the first time use	13
	Set the time format	13
	Set the clock	14
	Select a source	14
	Select a listening zone	14
	Set for video playback	14

5	Play from hard media	16
	Load a disc	16
	Connect a USB storage device	16
	Control play	17
	Browse recorded files	18
	Use the GOTO function	18

6	Listen to radio	19
	Select a tuner region	19
	Select a tuner sensitivity	19
	Search for a radio station	19
	Store radio stations in memory	19

7	Listen to an external device	21
----------	-------------------------------------	-----------

8	Adjust sound	22
	General	22
	Customize your sound equalizer	22

9	Adjust system settings	23
----------	-------------------------------	-----------

10	Adjust AV output settings	24
-----------	----------------------------------	-----------

11	Others	27
	Reset the system	27
	Replace the fuse	27

12	Product information	28
	General	28
	Disc player	28
	Radio	28

13	Troubleshooting	29
-----------	------------------------	-----------

14	Notice	30
	Compliance	30
	Care of the environment	30
	Trademark notice	30
	Copyright	31

1 Safety

Read and understand all instructions before you use the device. If damage is caused by failure to follow instructions, the warranty does not apply.

- Use of controls or adjustments or performance of procedures other than herein may result in hazardous radiation exposure or other unsafe operation.
- The device is designed for negative ground (earth) 12V DC operation only.
- To reduce the risk of traffic accidents, do not watch video when driving.
- To ensure safe driving, adjust the volume to a safe and comfortable level.
- Improper fuses can cause damage or fire. When you need to change the fuse, consult a professional.
- Use only the supplied mounting hardware for a safe and secure installation.
- To avoid short circuits, do not expose the device, remote control or remote control batteries to rain or water.
- The device shall not be exposed to dripping or splashing.
- Do not place any sources of danger on the device (e.g. liquid filled objects, lighted candles).
- Never insert objects into the ventilation slots or other openings on the device.
- Never place any objects other than discs into the disc tray/slot.
- To avoid exposure to laser radiation, do not disassemble the device.
- Never use solvents such as benzene, thinner, cleaners available commercially, or anti-static sprays intended for discs.
- Clean the device with soft, damp cloth. Never use substances such as alcohol, chemicals or household cleaners on the device.
- Risk of swallowing coin battery!
 - The product/remote control may contain a coin/button type battery, which can be swallowed. Keep the

battery out of reach of children at all times! If swallowed, the battery can cause serious injury or death. Severe internal burns can occur within two hours of ingestion.

- If you suspect that a battery has been swallowed or placed inside any part of the body, seek immediate medical attention.
- When you change the batteries, always keep all new and used batteries out of reach of children. Ensure that the battery compartment is completely secure after you replace the battery.
- If the battery compartment cannot be completely secured, discontinue use of the product. Keep out of reach of children and contact the manufacturer.

2 Your car entertainment system

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.

Introduction

With the car entertainment system, you can

- listen to music,
- watch videos,
- view JPEG pictures, and
- listen to FM and AM/MW radio.

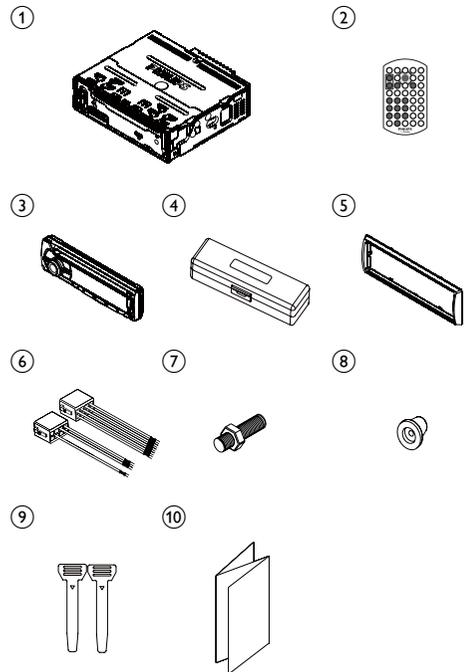
Playable media

- Disc
 - DVD, Video CD, SVCD, Audio CD, JPEG Picture CD, MP3-CD, WMA-CD
 - DVD-R, DVD-RW, DVD+R, DVD+RW, CD-R, CD-RW
- USB storage device
 - Compatibility: USB 2.0, USB 1.1
 - Class support: MSC (Mass Storage Class)
 - Maximum capacity: 32 GB
- Files
 - File system: FAT16, FAT32
 - Maximum number of folders: 99
 - Maximum number of tracks/files: 999
 - Maximum level of directory: 8
 - Video formats: MPEG1, MPEG2
 - Picture format: .jpeg
 - .mp3 files
 - Sampling frequencies: 32 kHz, 44.1 kHz, 48 kHz
 - Bitrates: 8-320 kbps and variable bitrates

- .wma files
 - Versions: V4, V7, V8, V9 (L1 and L2)
 - Sampling frequencies: 44.1 kHz, 48 kHz
 - Bitrates: 64-192 kbps and variable bitrates
- ID3 tag V2.0 or later
- **Unsupported files:**
 - AAC, WAV, and PCM files
 - DRM protected WMA files (.wav, .m4a, .m4p, .mp4, and .aac)
 - WMA files in lossless format

What's in the box

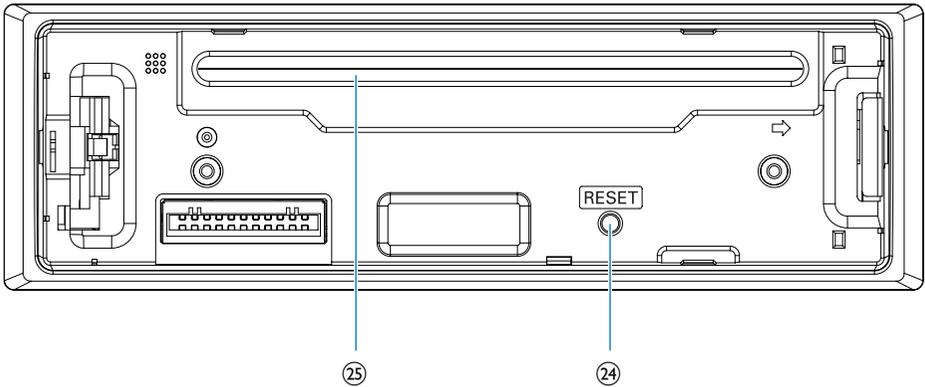
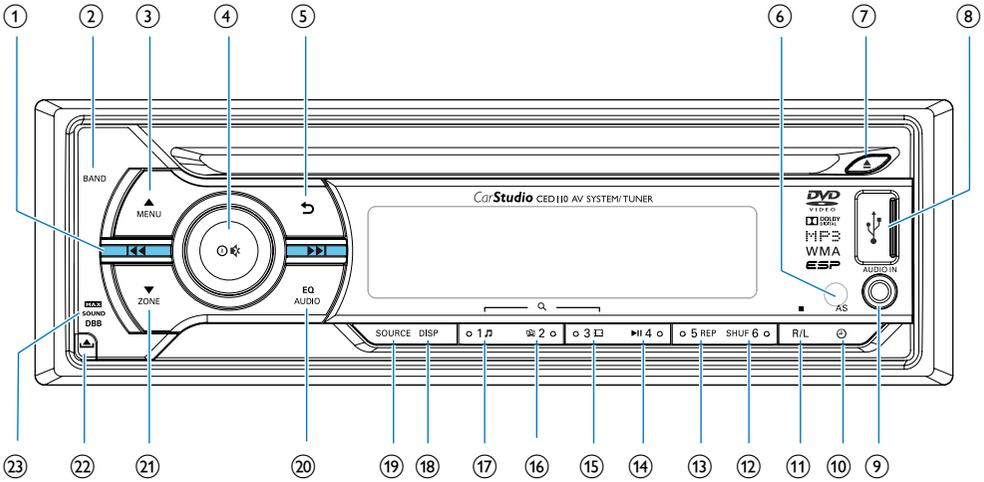
Check and identify the contents of the package:



- ① Main unit (with a sleeve)
- ② Remote control
- ③ Front panel
- ④ Trim plate

- ⑤ Carrying case for the front panel
- ⑥ ISO male connectors
- ⑦ Rubber cushion
- ⑧ Screw
- ⑨ Disassembly tools
- ⑩ User manual

Overview of the main unit



① ◀◀/▶▶

- Tune to a radio station.
- Press to skip to the previous/next chapter; title, track, or file.
- Press and hold to rewind a chapter/ title/track or search forward fast.

② BAND

- Press to return to radio mode.
- Press repeatedly to select a tuner band.

③ ▲ MENU

- For recorded files, press to select the previous folder.
- Press and hold to access the system menu.
- Press to select a tuner band.

④ ⏻ 🔊

- Press to power on the system.
- Press and hold to power off the system.

- Press to mute the speakers or release them from mute status.
- Press to confirm an option.
- Rotate to switch between menu options.
- Rotate to adjust the volume level.



- Return to the previous menu or exit.



- Eject the disc.



- Connect to a USB storage device.



- Connect to the audio output socket (usually the headphone socket) of an external device.



- Press to display the set clock.
- In radio mode, press and hold to activate the automatic search for radio stations.



- Press repeatedly to select an available audio language or audio channel.
- Press and hold to stop play.



- In radio mode, press to select the preset radio station of No. 6.
- In radio mode, press and hold to store the current radio station at channel No. 6.
- Enable or disable the shuffle play.



- In radio mode, press to select the preset radio station of No. 5.
- In radio mode, press and hold to store the current radio station at channel No. 5.
- Press repeatedly to select a repeat mode.



- Start, pause, or resume the play.
- In radio mode, press to select the preset radio station of No. 4.
- In radio mode, press and hold to store the current radio station at channel No. 4.



- In radio mode, press to select the preset radio station of No. 3.
- In radio mode, press and hold to store the current radio station at channel No. 3.
- For recorded files, press to access the list of folders that contain compatible video files.



- In radio mode, press to select the preset radio station of No. 2.
- In radio mode, press and hold to store the current radio station at channel No. 2.
- For recorded files, press to access the list of folders that contain compatible picture files.



- In radio mode, press to select the preset radio station of No. 1.
- In radio mode, press and hold to store the current radio station at channel No. 1.
- For recorded files, press to access the list of folders that contain compatible audio files.



- Press repeatedly to display available information about the current track.



- Press repeatedly to select a source.



- Press repeatedly to select a preset sound equalizer.
- Press and hold to activate the setup of customized sound equalizer.

21 ▼ ZONE

- For recorded files, press to select the next folder.
- Press and hold to activate the selection of listening zones.
- Press to select a tuner band.

22 🔒

- Unlock the front panel.

23 **MAX**
SOUND
DBB

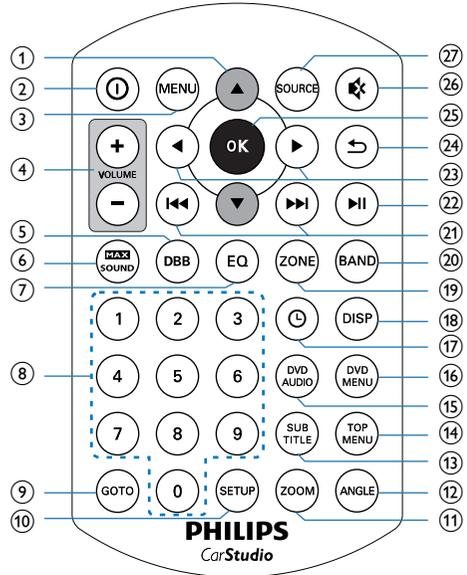
- Press to enable or disable the **MAX Sound** effect.
- Press and hold to enable or disable the DBB (dynamic bass boost) sound effect.

24 RESET

- Press to reset the system to factory default settings.

25 Disc compartment

Overview of the remote control



1 ▲ / ▼

- Skip to the previous or next track, chapter, or file.
- Navigate through on-screen menus.

2 ①

- Press to power on the system.
- Press and hold to power off the system.

3 MENU

- Access or exit the system menu.

4 VOLUME + / -

- Press to increase or decrease the volume.

5 DBB

- Enable or disable the DBB (Dynamic Bass Boost) sound effect.

6 **MAX**
SOUND

- Enable or disable the **MAX Sound** effect.

- ⑦ **EQ**
 - Press repeatedly to select a preset sound equalizer.
- ⑧ **Numeric buttons**
 - Enter numbers.
- ⑨ **GOTO**
 - Skip to a chapter/title/track/file or a point of a video/audio directly.
- ⑩ **SETUP**
 - Access or exit the menu for audio and video output settings.
- ⑪ **ZOOM**
 - Zoom in or out of the picture.
- ⑫ **ANGLE**
 - Select an available picture viewing angle.
- ⑬ **SUB TITLE**
 - Select an available subtitle.
- ⑭ **TOP MENU**
 - Return to or exit the top menu.
- ⑮ **DVD AUDIO**
 - Select an audio language or audio channel.
- ⑯ **DVD MENU**
 - Access or exit the DVD menu of a DVD disc.
- ⑰ 
 - Press to display the set clock.
- ⑱ **DISP**
 - Press repeatedly to display available information about the current track.
- ⑲ **ZONE**
 - Select a music listening zone.
- ⑳ **BAND**
 - Press to return to radio mode.
 - Press repeatedly to select a tuner band.
- ㉑ 
 - Tune to a radio station.
 - Press to skip to the previous/next track.
 - Press and hold to rewind a chapter/title/track or search forward fast.
- ㉒ 
 - Start, pause, or resume the play.
- ㉓ 
 - Skip to the previous or next track, chapter, or file.
 - Navigate through on-screen menus.
- ㉔ 
 - Return to the previous menu or exit.
- ㉕ **OK**
 - Confirm an option.
- ㉖ 
 - Press to mute the speakers or release them from mute status.
- ㉗ **SOURCE**
 - Press repeatedly to select a source.

3 Install the car entertainment system

Always follow the instructions in this chapter in sequence.

These instructions are for a typical installation. However, if your car has different requirements, make the adjustment accordingly. If you have any question regarding installation kits, consult your local retailer:

Note

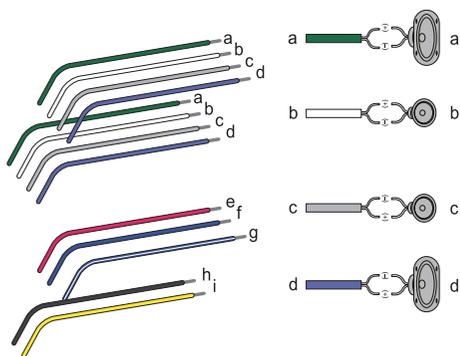
- This system is designed for negative ground (earth) 12V DC operation only.
- Always install this system in the car dashboard. Other locations can be dangerous as the rear of the system heats up during use.
- To avoid short-circuit: before you connect, make sure that the ignition is off.
- Make sure that you connect the yellow and red power supply leads after all other leads are connected.
- Make sure that all loose leads are insulated with electrical tape.
- Make sure that the leads do not get caught under screws iron parts that will move (e.g. seat rail).
- Make sure that all ground (earth) leads are run to a common ground (earth) point.
- Use only the supplied mounting hardware for a safe and secure installation.
- Improper fuses can cause damage or fire. When you need to change the fuse, consult a professional.
- When you connect other devices to this system, make sure that the rating of the car circuit is higher than the total fuse value of all the connected devices.
- Never connect speaker wires to the metal body or chassis of the car.
- Never connect speaker wires with stripes to one another.

Connect wires

Note

- To enjoy video on an external screen, make sure that you have correctly connected the system to the screen as indicated below in step 2.
- Make sure that all loose leads are insulated with electrical tape.
- Consult a professional to connect wires as instructed below.

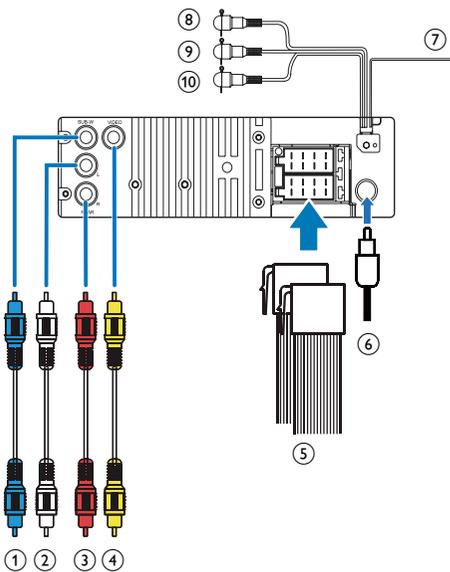
1 Check the car's wiring carefully and connect them to the the ISO male connectors.



	ISO male connectors	Connect to
a	Green strip, black-edged green strip	Rear left speaker
b	White strip, black-edged white strip	Front left speaker
c	Gray strip, black-edged gray strip	Front right speaker
d	Purple strip, black-edged purple strip	Rear right speaker
e	Red strip	Ignition key +12V DC when ON/ACC
f	Blue strip	Motor/electric antenna relay control lead

	ISO male connectors	Connect to
g	White-edged blue strip	Amplifier relay control lead
h	Black strip	Ground
i	Yellow strip	To the +12V car battery which is energized at all times

2 Connect the ISO male connectors and other wires to the rear panel of the main unit if necessary.



	Sockets or connectors on rear panel	External sockets or connectors
1	SUB-W (Blue socket)	As indicated above
2	REAR L (White socket)	Rear left speaker
3	REAR R (Red socket)	Rear right speaker
4	VIDEO (Yellow socket)	Video input socket of external screen

5	Sockets for ISO male connectors	As indicated in step 1 above
6	Antenna socket	Radio antenna
7	OE REMOTE (Purple strip)	OE remote
8	VIDEO IN (Yellow connector)	Video output socket of an external video player
9	AUDIO IN L (White connector)	Left audio channel output socket of an external video player
10	AUDIO IN R (Red connector)	Right audio channel output socket of an external video player

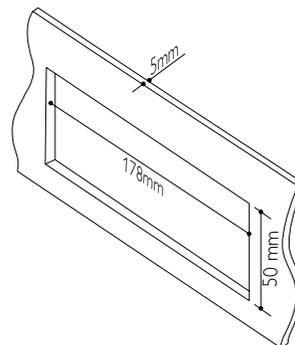
* Tip

- The pin arrangement for the ISO connectors depends on the type of your vehicle. To avoid damage to the unit, connect properly.

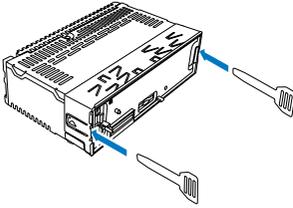
Mount into the dashboard

- If the car does not have an on-board drive or navigation computer, disconnect the negative terminal of the car battery.
- If the car battery is not disconnected, to avoid short-circuit, make sure that the bare wires do not touch each other.

1 Make sure that the car dashboard opening is within these measurements.



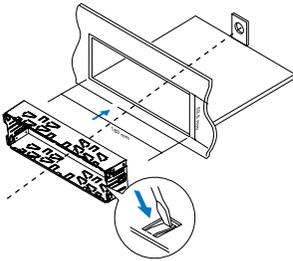
- 2 Remove the mounting sleeve with the supplied disassembly tools.



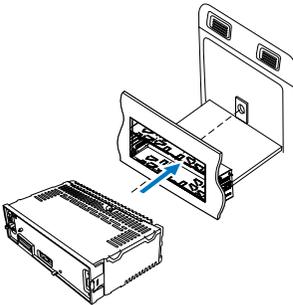
- 3 Install the sleeve into the dashboard and bend the tabs outward to fix the sleeve.

Note

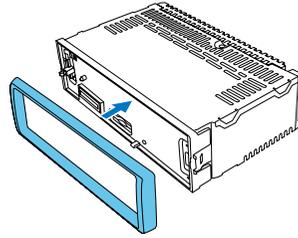
- If the unit is not fixed by sleeve but by the supplied screw, skip this step.



- 4 Slide the unit into the dashboard until you hear a "click".



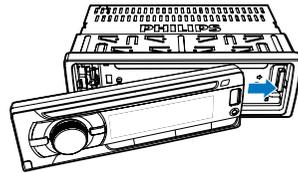
- 5 Attach the trim plate.



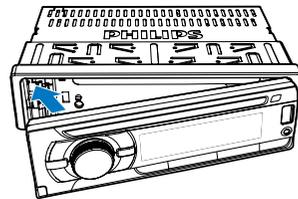
- 6 Reconnect the negative terminal of the car battery.

Attach the front panel

- 1 Insert the notch on the front panel to the chassis on the main unit.



- 2 Press the left end of the front panel inwards until it is securely locked with a "click".



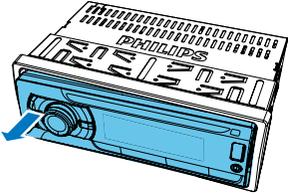
Detach the front panel



Note

- Before you reset the system, detach the front panel.
- Before you detach the front panel, make sure that the system is powered off.

- 1 Press  to release the front panel.
- 2 Pull the front panel outwards to remove it.



4 Get started

! Caution

- Risk of car accidents! Never watch video or operate this system while driving.

Prepare the remote control

For the first time use

Pull the protective sheet out.

- ↳ The remote control is ready for use.

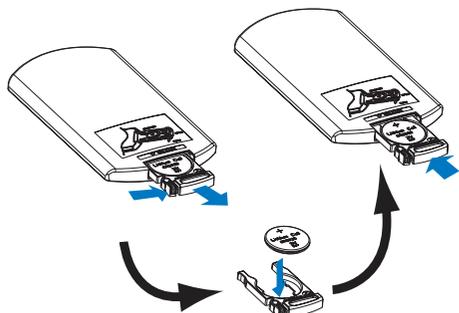
Replace the battery

! Caution

- Risk of explosion! Keep batteries away from heat, sunshine or fire. Never discard batteries in fire.

☰ Note

- Remove the battery if it is exhausted or if the remote control is not to be used for a long time.
- Batteries contain chemical substances, they should be disposed of properly.
- Perchlorate Material - special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate.



- 1 Pull out the battery tray.
- 2 Insert one CR2025 battery with correct polarity (+/-) as indicated.
- 3 Insert the battery tray.

For the first time use

- 1 Press **⏻** to power on the system.
↳ **[WELCOME]** (Welcome) is displayed and then **[SELECT OPERATING REGION]** (select a radio region) scrolls.
- 2 When one of the following options is displayed, rotate **⏻** to select a radio region that matches your location.
 - **[AREA LAT]** (Latin America)
 - **[AREA USA]** (United States)
 - **[AREA EUR]** (Western Europe)
 - **[AREA RUS]** (Russia)
 - **[AREA EAS]** (Middle East)
 - **[AREA ASI]** (Asia Pacific)
 - **[AREA JAP]** (Japan)
 - **[AREA AUS]** (Australia)
- 3 Press **⏻** to confirm.
↳ The system switches to radio mode automatically.
 - To power off the system, press and hold **⏻** until the screen backlight is off.

Set the time format

- 1 Press and hold **⏻** to access the system menu.
- 2 Press **⏻** / **⏮** repeatedly until **[CLK FORMAT]** is displayed.
- 3 Rotate **⏻** to select **[CLK 24H]** or **[CLK 12H]**.
 - **[CLK 24H]**: 24-hour time format
 - **[CLK 12H]**: 12-hour time format

Set the clock

- 1 Press and hold **MENU** to access the system menu.
- 2 Press **MENU** / **ZONE** repeatedly until **[CLK]** is displayed with time digits blinking.
- 3 Rotate **⌚** anti-clockwise to set the hour.
- 4 Rotate **⌚** clockwise to set the minute.

Display the clock

Press **⌚** / **AS**.

- ↳ The set clock is displayed.
- To exit the clock display, press **⌚** / **AS** again or rotate **⌚**.

Select a source

Press **SOURCE** repeatedly to select a source.

- **[RADIO]**: Listen to FM/AM radio.
- **[AUDIO IN]**: Listen to the audio input through the **AUDIO IN** socket.
- **[AV IN]**: The audio and video input that is transferred from an external video player
- **[USB]**: When a USB storage device is connected and recognized, you can select this source to play compatible files that are stored on it.
- **[DVD]/[DISC]**: When a compatible disc is inserted and recognized, you can select this source to play the disc.

Select a listening zone

- 1 Press and hold **ZONE** until one of the following options is displayed.
 - **[ALL]**: For all passengers
 - **[FRONT-L]**: For the front-left seat only
 - **[FRONT-R]**: For the front-right seat only
 - **[FRONT]**: For front passengers only

- 2 Press **MENU** / **ZONE** repeatedly to select a listening zone.

Set for video playback

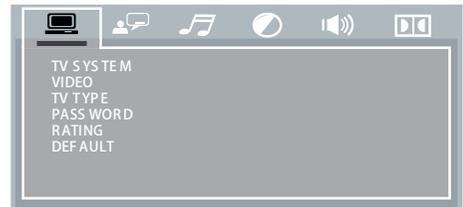
If video image is abnormally displayed on the connect external screen, check the video connection and make the following setup.

Note

- Make sure that a compatible video disc is inserted and the source is selected as **[DVD]/[DISC]**.
- Make sure that the video input channel of the external screen is set to the one for this system.

Set the color system

- 1 Press **SETUP** to access the menus for audio and video output settings.



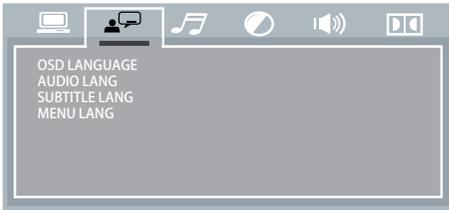
- 2 Press **▲** / **▼** to select **[TV SYSTEM]** (TV system), and then press **OK** to display the lower level options.
- 3 Press **▲** / **▼** to select an option and then press **OK**.
 - **[NTSC]**: For a screen with NTSC color system.
 - **[PAL60]**: For a screen with PAL60 color system.
 - **[PAL]**: For a screen with PAL color system.
 - **[AUTO]** (Auto): For a screen that is compatible with PAL, PAL60, and NTSC.
- 4 Press **SETUP** to exit the menus.

Set the languages for on-screen items

- 1 Press **SETUP** to access the menus for audio and video output settings.



- 2 Press ◀/▶ repeatedly until the following tab is displayed.



- 3 Press ▲/▼ to select **[OSD LANGUAGE]** (on-screen display language)/**[MENU LANG]** (menu language), and then press **OK** to display the lower level options.
 - **[OSD LANGUAGE]** (on-screen display language): Select a language for on-screen menus.
 - **[MENU LANG]** (menu language): Select a language for disc menu.
- 4 Press ▲/▼ to select an option and then press **OK**.
- 5 Press **SETUP** to exit the menus.

5 Play from hard media

You can use this system to listen to audio, watch videos, and view photos that are stored on a compatible disc or USB storage device.

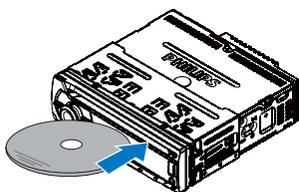
Note

- Before use, check for compatible media.

Load a disc

Caution

- Never insert any object other than a disc of 12 cm diameter into the disc slot.



- 1 Insert the disc into the disc slot with the label side facing up.
 - ↳ Play starts automatically.
 - If play does not start automatically, press **▶|| 4** to start play.
- 2 To eject the disc, press **▲**.
 - ↳ When the disc is ejected, the system switches to the previous source or radio mode.

Region Code

You can play DVD discs marked with the following region code.

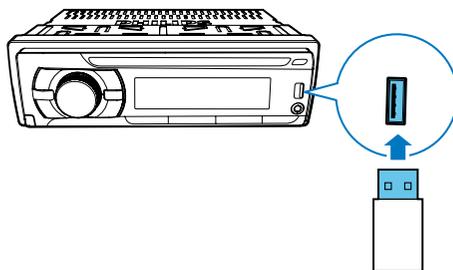
DVD region code	Countries
	Latin America

Connect a USB storage device

Note

- Make sure that the USB storage device contains compatible files.
- NTFS (New Technology File System) file system is not supported.

- 1 Push the USB socket cover upwards to open it.
- 2 Connect the USB storage device to the USB socket.
 - ↳ Play starts automatically.
 - If play does not start automatically, press **▶|| 4** to start play.



- To remove the USB storage device, switch the system to another source first.

Control play

Basic control

The following operations are applicable to all compatible media.

Buttons	Functions
▶ 4 / ▶	Start, pause, or resume play.
R/L/ ■	Press and hold it to stop play. You can press ▶ 4 / ▶ to resume the play from the stop point. <ul style="list-style-type: none">• For an audio or video, press and hold it again to end the play.
I◀◀ / ▶▶I	Press to start the previous or next chapter, title, track, or file.
5 REP	Select an available repeat mode. <ul style="list-style-type: none">• [REP ALL]: Repeat all tracks or files.• [RPT TRK]: Repeat the current track or file.• [RPT FLD]: Repeat all tracks or files in the current folder or album.• [REP CHAPT]: Repeat the current chapter of a DVD.• [REP TITLE]: Repeat the current title of a DVD.• [REP OFF]: Play all chapters or titles of a DVD in sequence.
SHUF 6	<ul style="list-style-type: none">• [SHUF ALL]: Play all tracks or files randomly.• [SHUF OFF]: Play all tracks or files in sequence.
Numeric buttons on the remote control	Enter the number of a chapter, title, track, or file to start it.

Audios

Buttons	Functions
I◀◀ / ▶▶I	Press and hold to rewind a track or search forward fast. <ul style="list-style-type: none">• To play the track at normal speed, press ▶ 4 or ▶ .

Pictures

Buttons	Functions
▲ / ▼	Rotate the picture by 180°.
◀ / ▶	Rotate the picture by 90°.
ZOOM	Press repeatedly to zoom in or out of the picture. <ul style="list-style-type: none">• To pan through an enlarged picture, press ▲ / ▼ / ◀ / ▶.

Videos

Buttons	Functions
I◀◀ / ▶▶I	Select a speed to rewind a track/title/chapter or search forward fast. <ol style="list-style-type: none">1 Press and hold it until [BACKWARD] (backward) or [FORWARD] (forward) is displayed.2 Repeat step 1 to select a speed (X 2, X 4, X 8, or X 20).<ul style="list-style-type: none">• To play at normal speed, press ▶ 4 or ▶ .
ZOOM	Press repeatedly to zoom in or out of the image. <ul style="list-style-type: none">• To pan through an enlarged image, press ▲ / ▼ / ◀ / ▶.
ANGLE	When picture viewing angles are available, press repeatedly to select one.
SUB TITLE	When subtitles are available, press repeatedly to select one.
DVD AUDIO	Press repeatedly to select an audio language for a DVD.

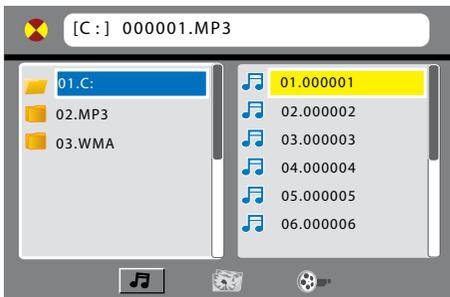
Buttons	Functions
DVD MENU/TOP MENU	<p>Press to access the DVD menu or top menu of a DVD.</p> <ul style="list-style-type: none"> To toggle through the menu options, press ▲ / ▼ / ◀ / ▶. To confirm an option, press OK.

Browse recorded files

During playing recorded files, you can access the file list and select files from the list.

- Press **1** **2** or **3** to access the list of files or folders.
 - 1** : Music files or folders
 - 2** : Picture files or folders
 - 3** : Video files or folders
 ↳ [MUSIC], [IMAGE], or [VIDEO] is displayed.
- Press ▲ / ▼ on the main unit or ▲ / ▼ on the remote control to select a folder.
 ↳ The folder name is displayed.
- Press **▶|| 4** on the main unit or **OK** to access the list of files under the folder.
 ↳ The name of the first file scrolls.
- Press ▲ / ▼ on the main unit or ▲ / ▼ on the remote control to select a file.
- Press **▶|| 4** on the main unit or **OK/▶||** on the remote control to start play.

On the connected external screen, the following interface is displayed.



- Press ◀ / ▶ repeatedly until or is highlighted.
 - : For audio files
 - : For picture files
 - : For video files
- Press ◀ / ▶ to select a category icon, and then press **OK**, **▶||**, or **▶|| 4**.
 ↳ The folders that contain the files of this category are listed.
- Perform steps 2 to 5 as described above to select and play a file.

Use the GOTO function

With the **GOTO** function, you can skip to a chapter/title/track/file or a point of a video/audio directly.

- Press **GOTO**.
 ↳ **[GOTO]** is displayed on the LCD screen of the main unit.
 ↳ Fields and numbers are displayed on the top of the connected external screen.
 - For a DVD, **[TT]** (title), **[CH]** (chapter) and (time) are displayed.
 - For a VCD, SVCD, audio CD, and audio/video files, **[TRK]** (track) and (time) are displayed.
 - For picture files, **[TRK]** (file) is displayed.
- Press ◀ / ▶ to select a field, and then enter the numbers with numeric buttons.
- Press **OK** to confirm.

6 Listen to radio

Select a tuner region

You can select a radio region that matches your location.

- 1 In radio mode, press and hold  **MENU** to access the system menu.
- 2 Press  /  repeatedly until **[AREA]** scrolls.
- 3 Rotate  to select a region.
 - **[AREA LAT]/[LATIN]** (Latin America)
 - **[AREA USA]/[USA]** (United States)
 - **[AREA EUR]/[EUROPE]** (Western Europe)
 - **[AREA RUS]/[RUSSIA]** (Russia)
 - **[AREA EAS]/[MID--EAST]** (Middle East)
 - **[AREA ASI]/[ASIA]** (Asia Pacific)
 - **[AREA JAP]/[JAPAN]** (Japan)
 - **[AREA AUS]/[AUST]** (Australia)

Select a tuner sensitivity

To search for radio stations with strong signals only or more radio stations, you can change the tuner sensitivity.

- 1 Press and hold  **MENU** to access the system menu.
- 2 Press  /  repeatedly until **[LOCAL SEEK]** scrolls.
- 3 Rotate  to select a setting.
 - **[LOC ON]**: Search for radio stations with strong signals only.
 - **[LOC OFF]**: Search for radio stations with strong and weak signals.

Search for a radio station

Search for a radio station automatically

Press  or .

- ↳ **[SEEK--]** or **[SEEK+]** is displayed until the previous or next strong station is detected.

Search for a radio station manually

- 1 Press and hold  or  until **[M]** blinks.
- 2 Press  or  repeatedly until the target frequency is displayed.

Store radio stations in memory

Note

- You can store a maximum of six stations in each band.

Store radio stations automatically

- 1 Switch the source to **[RADIO]**.
- 2 Press **BAND**, , or  repeatedly to select a band.
- 3 Press and hold  / **AS** until **[STORE---**] is displayed.

↳ After the search is complete, the first stored radio station is broadcast automatically.

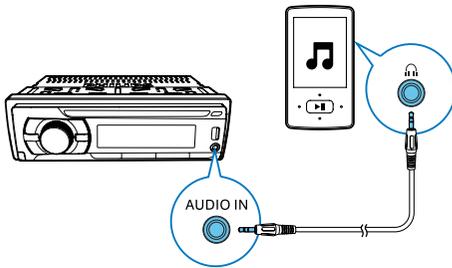
 - To select a stored radio station, press **1**  **2**  **3**  **▶||** **4**, **5** **REP**, or **SHUF** **6**.

Store radio stations manually

- 1 Press **BAND**,  **MENU**, or  **ZONE** repeatedly to select a radio band.
- 2 Tune to the radio station that you want to store.
- 3 Press and hold **1**  **2**  **3**  **▶|| 4**, **5 REP**, or **SHUF 6** to store the radio station at the selected channel.
 - To select a stored radio station, press **1**  **2**  **3**  **▶|| 4**, **5 REP**, or **SHUF 6**.

7 Listen to an external device

You can use the system to amplify the audio input from an external device, for example, MP3 player:



- 1 Switch the source to **[AUDIO IN]**.
- 2 Connect an audio input cable with a 3.5mm connector on both ends to
 - the **AUDIO IN** socket on the system, and
 - the audio output socket (usually the headphone socket) on the external device.
- 3 Play audio on the external device.

8 Adjust sound

The following operations are applicable to all supported media.

General

Button	Function
	Rotate to increase or decrease the volume level.
	Press to mute the speakers or release them from mute status.
	Press to enable or disable the MAX Sound effect.
	Press and hold to enable or disable the Dynamic Bass Boost (DBB) effect.
	Press repeatedly to select a sound equalizer: [FLAT] (flat), [POP] (pop), [USER] (customized), [TECHNO] (techno), [ROCK] (rock), [CLASSIC] (classic), [JAZZ] (jazz), or [OPTIMAL] (optimal).

Customize your sound equalizer

- 1 Press and hold  to activate the setup of customized sound equalizer.
- 2 Press  repeatedly to select an option.
- 3 Rotate  to adjust the setting.
 - **[SUBW ON]** (Subwoofer on)/**[SUBW OFF]** (Subwoofer off): Enable or disable the subwoofer output.
 - **[SUBW XX]**: Set the subwoofer output level (XX indicates a value from 00 to 12).

- **[BALANCE]** (Balance)
[BAL L--R]: Transfer equal output to left (L) and right (R) speakers.
[BAL LXX]/[BAL RXX]: Increase the level of output to left or right speakers (XX indicates a value from 01 to 12).
- **[FADER]** (Fader)
[FAD F--R]: Set the same fader level to front (F) and rear (R) speakers.
[FAD FXX]/[FAD RXX]: Increase the fader level of front or rear speakers (XX indicates a value from 01 to 12).
- **[BASS]** (Bass): Increase or decrease the bass level (from -7 to +7).
[BASS CFQ] (Bass center frequency): Select a value (60 Hz, 80 Hz, 100 Hz, or 200 Hz).
- **[MIDDLE]** (Middle)
[MID XX]: Increase or decrease the middle level (from -7 to +7).
[MID CFQ] (Middle center frequency): Select a value (500 kHz, 1 kHz, 1.5 kHz, or 2.5 kHz).
- **[TREBLE]** (Treble)
[TRE XX]: Increase or decrease the treble level (from -7 to +7).
[TRE CFQ] (Treble center frequency): Select a value (10 kHz, 12.5 kHz, 15 kHz, and 17.5 kHz).

9 Adjust system settings

- 1 Press and hold  to access the system menu.
- 2 Press  repeatedly until one of the following settings scrolls.
 - [BEEP], [DIMMER], or [DEMO]
- 3 Rotate  to change the setting.

[BEEP]	[BEEP ON]	Enable the beep sound of buttons.
	[BEEP OFF]	Disable the beep sound of buttons.
[DIMMER]	[DIMMER HIGH]	Increase the brightness level of the screen.
	[DIMMER LOW]	Decrease the brightness level of the screen.
[DEMO]	[DEMO ON]	Demonstrate all features after the system stays inactive for 2 minutes.
	[DEMO OFF]	Disable the demo mode.

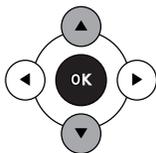
10 Adjust AV output settings

If an external screen is correctly connected to this system, you can adjust the settings for audio and video output.

Press **SETUP** to access the menus.



- To exit the menus, press **SETUP** again.



- To toggle through menu items, press **▲** / **▼**.
- To enter the second level menu items, press **▶** or **OK**.
- To confirm an option, press **OK**.
- To return to the first level menu items, press **◀**.
- To highlight a tab icon, press **◀** repeatedly to return to the first level menu items, and then press **▲** / **▼** repeatedly.
- To access another tab, highlight the current tab icon, and then press **◀** / **▶**.

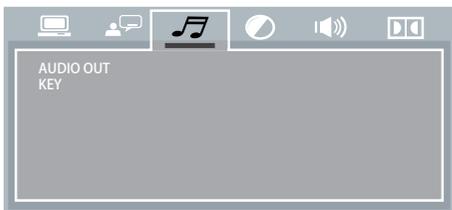


- [TV SYSTEM]** (TV system)
Select a color system that matches the external screen.
 - [NTSC]** - For a screen with NTSC color system
 - [PAL60]** - For a screen with PAL60 color system
 - [PAL]** - For a screen with PAL color system
 - [AUTO]** - For a screen that is compatible with PAL, PAL60, and NTSC
- [TV TYPE]** (TV type)
Select an aspect ratio of display to match the external screen.
 - [4:3PS]** (4:3 pan scan) - For a 4:3 screen: full-height display with the trimmed sides
 - [4:3LB]** (4:3 letter box) - For a 4:3 screen: wide-screen display with black bars on the top and bottom of the screen
 - [16:9]** - For a wide-screen: display ratio 16:9
- [PASSWORD]** (Password)
Set a password to restrict the play of certain discs.
 - To set the password, enter the four-digit password with numeric buttons, and then press **OK** to confirm.
 - If a password is required for a disc, enter the set password, and then press **OK** to confirm.
 - The default password is 0000. If you forget the set password, enter 0000.
- [RATING]** (Rating)
For a DVD that has a parental level assigned to the complete disc or to certain scenes, you can set a playback permission level with this setting. To play a DVD that is rated above the level, you need to enter the four-digit password and choose a higher level rating.
 - [1 KID SAFE]** - Suitable for children.
 - [2 G]** - Recommended as acceptable for viewers of all ages.
 - [3 PG]** - Parental guidance suggested.

- **[4 PG13]** - Unsuitable for children under age 13.
- **[5 PG-R]** - Parental Guidance; recommended that parents restrict children under 17 from viewing.
- **[6 R]** - Restricted; recommended only when supervised by a parent or adult guardian.
- **[7 NC-17]** - Not recommended for children under age 17.
- **[8 ADULT]** - Viewed only by adults due to graphic sexual scenes, violence, or language.
- **[DEFAULT]** (Default)
Reset all settings to factory default status except the **[PASSWORD]**.



- **[OSD LANGUAGE]** (On-screen display language)
Select a language for on-screen menus.
- **[AUDIO LANG]** (Audio language)
Select an available audio channel or audio language.
- **[SUBTITLE LANG]** (Subtitle language)
Select an available language for subtitles.
- **[MENU LANG]** (Menu language)
Select a language for disc menu.



- **[AUDIO OUT]** (Audio out)

Select a suitable setting if you have connected an audio/video device to the **COAXIAL (DIGITAL AUDIO)** socket.

- **[SPDIF/OFF]** - Select this option to disable digital output.
- **[SPDIF/RAW]** - Select this option if the connected device is a multi-channel decoder/receiver.
- **[SPDIF/PCM]** - Select this option if the connected device cannot decode multi-channel audio.
- **[KEY]** (Key)

Press **▲** / **▼** to increase or decrease the tone.

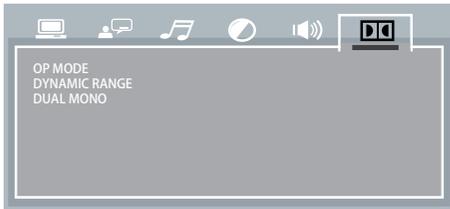


- **[BRIGHTNESS]** (Brightness)
Press **▲** / **▼** to adjust the brightness level.
- **[HUE]** (Hue)
Press **▲** / **▼** to adjust the hue level.
- **[SATURATION]** (Saturation)
Press **▲** / **▼** to adjust the saturation level.
- **[SHARPNESS]** (Sharpness)
Press **▲** / **▼** to adjust the contrast level.



- **[DOWNMIX]**
Select a suitable audio downmix when you play a DVD recorded in Dolby Digital format.

- **[LT/RT]** - Select this if the system is connected to a Dolby Pro Logic decoder.
- **[STEREO]** (Stereo) - Select this when sound output is transferred to the two front speakers only.
- **[VSS]** (Virtual surround sound) - Enable virtual surround sound effects.



- **[OP MODE]** (OP mode)
 - **[LINE OUT]** - Line out mode, with digital dialog normalization.
 - **[RF REMOD]** - RF remodulation mode, with heavy compression and digital dialog normalization.
- **[DYNAMIC RANGE]** (Dynamic range control)

Set a dynamic range for audio output:
[FULL] (Full), **[6/8]**, **[4/8]**, **[2/8]**, or **[OFF]** (Off).
- **[DUAL MONO]** (Dual mono)

Select an output mode of audio signals.

 - **[STEREO]** (Stereo) - Transfer original stereo sound signals to speakers.
 - **[MONO L]** (Left monophonic) - Transfer left monophonic sound signals to speakers.
 - **[MONO R]** (Right monophonic) - Transfer right monophonic sound signals to speakers.
 - **[MIX MONO]** (Mixed monophonic) - Transfer mixed left and right sound signals to speakers.

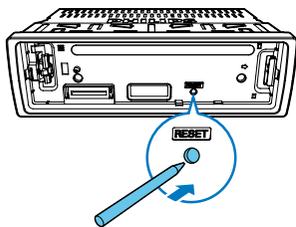
11 Others

Tip

- If the fuse gets damaged immediately after it is replaced, an internal malfunction may occur. In this case, consult your Philips retailer.

Reset the system

If the system works abnormally, reset the system to factory default settings.

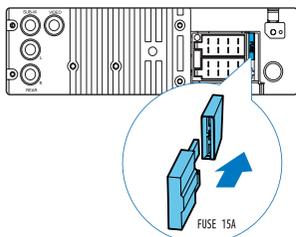


- 1 Detach the front panel.
- 2 Press the **RESET** button with the tip of a ball-point pen or toothpick.
↳ All settings are reset to factory default.

Replace the fuse

If there is no power, check the fuse and replace it if it is damaged.

- 1 Detach the main unit from dashboard.
- 2 Check the electric connection.
- 3 Remove the damaged fuse from the rear panel.
- 4 Insert a new fuse with the same specifications (15 A).



12 Product information



Note

- Product information is subject to change without prior notice.

General

Power supply	12 V DC (11 V - 16 V), negative ground
Fuse	15 A
Suitable speaker impedance	4 - 8 Ω
Maximum power output	50 W \times 4 channels
Continuous power output	21 W \times 4 channels (4 Ω , 10% T.H.D.)
Pre-Amp output voltage	4.0 V (CD play mode; 1 kHz, 0 dB, 10 k Ω load)
Sub-woofer output voltage	4.0 V (CD play mode, 61 Hz, 0 dB, 10 k Ω load)
Aux-in level	\geq 800 mV
Dimensions (W \times H \times D)	178 \times 50 \times 160 mm
Weight (main unit)	3.1 kg

Disc player

System	DVD, DVD-R, DVD-RW, DVD+R, DVD+RW, Video CD, SVCD, JPEG Picture CD, CD, CD-R, CD-RW, MP3-CD, WMA, WMA-CD
Disc diameter	12 cm
Frequency response	20 Hz - 20 kHz

Signal/noise ratio	$>$ 75 dB
Total harmonic distortion	Less than 0.3%
Channel separation	$>$ 55 dB
Video signal format	NTSC/PAL/PAL60
Video output	1 +/- 0.2 V p-p

Radio

Frequency range - FM	87.5 - 108.0 MHz (50 kHz per step)
Frequency range - AM(MW)	522 - 1620 kHz (9 kHz per step)
Usable sensitivity - FM	5 μ V
Usable sensitivity - AM (MW)	25 μ V

13 Troubleshooting



Warning

- Never remove the casing of this product.

To keep the warranty valid, never try to repair the product yourself.

If you encounter problems when using this product, check the following points before requesting service. If the problem remains unsolved, go to the Philips Web page (www.philips.com/support). When you contact Philips, make sure that the product is nearby and the model number and serial number are available.

No power

- Car engine has not been started. Start the car engine.
- Connections are incorrect.
- The fuse has been damaged. Replace the fuse.

No sound

- Volume is too low. adjust the volume.
- Speaker connections are incorrect.

No response to the remote control

- Make sure that the path between the remote control and the unit is clear from obstacles.
- Move the remote control close to the unit, and point it at the iR sensor.
- The function is not applicable to the current media.
- Replace the remote control battery.

The disc does not play.

- The disc is upside down. Make sure that the printed side is upwards.
- The disc is dirty. Clean the disc with a clean, soft, lint-free cloth. Wipe the disc outwards from the center.
- The disc is defective. Try another disc.
- The disc is incompatible. Try another disc.
- The recordable disc is not finalized.

- The region code of DVD disc is not supported. Use a disc with proper region code.

No image, or image flashes or is distorted.

- Make sure that video cables between this system and the screen are properly connected.

Noise in broadcasts

- Signals are too weak. Select another station with stronger signals.
- Check the connection of the car antenna.

Preset stations are lost.

- Battery cable is not correctly connected. Connect the battery cable to the terminal that is always live.

The fuse is broken.

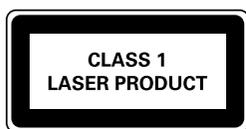
- The fuse type is incorrect. Replace it with a 15 A fuse.
- Speaker wire or power wire is grounded. Check the connection.

14 Notice

Any changes or modifications made to this device that are not expressly approved by Philips Consumer Lifestyle may void the user's authority to operate the equipment.

Compliance

This apparatus includes this label:



Care of the environment



Your product is designed and manufactured with high quality materials and components, which can be recycled and reused. Never dispose of your product with other household waste. Please inform yourself about the local rules on the separate collection of electrical and electronic products and batteries. The correct disposal of these products helps prevent potentially negative consequences on the environment and human health. Your product contains batteries, which cannot be disposed of with normal household waste. Please inform yourself about the local rules on separate collection of batteries. The correct disposal of batteries helps prevent potentially negative consequences on the environment and human health.

Please visit www.recycle.philips.com for additional information on a recycling center in your area.

Environmental information

All unnecessary packaging has been omitted. We have tried to make the packaging easy to separate into three materials: cardboard (box), polystyrene foam (buffer) and polyethylene (bags, protective foam sheet.) Your system consists of materials which can be recycled and reused if disassembled by a specialized company. Please observe the local regulations regarding the disposal of packaging materials, exhausted batteries and old equipment.

Trademark notice



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



Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.



'DVD Video' is a trademark of DVD Format/ Logo Licensing Corporation. Other trademarks and trade names are those of their respective owners.

Copyright



**Be responsible
Respect copyrights**

This item incorporates copy protection technology that is protected by U.S. patents and other intellectual property rights of Rovi Corporation. Reverse engineering and disassembly are prohibited.

2013 © Koninklijke Philips Electronics N.V. Specifications are subject to change without notice. Trademarks are the property of Koninklijke Philips Electronics N.V or their respective owners. Philips reserves the right to change products at any time without being obliged to adjust earlier supplies accordingly.



Specifications are subject to change without notice
© 2013 Koninklijke Philips Electronics N.V.
All rights reserved.

CED110_55_UM_V1.0

