

# Always there to help you

Register your product and get support at  
[www.philips.com/support](http://www.philips.com/support)



CEM2300BT



## User manual

# PHILIPS



# Contents

<b>1</b>	<b>Safety</b>	<b>2</b>		
<b>2</b>	<b>Your car audio system</b>	<b>3</b>		
	Introduction	3		
	What's in the box	3		
	Overview of the system	4		
<b>3</b>	<b>Install the car audio system</b>	<b>6</b>		
	Connect wires	7		
	Mount into the dashboard	7		
	Attach the front panel	9		
<b>4</b>	<b>Get started</b>	<b>10</b>		
	For the first time use	10		
	Set the time format	10		
	Set the clock	10		
	Turn on	10		
	Switch music listening zone	10		
	Mute the button beep	10		
<b>5</b>	<b>Listen to radio</b>	<b>11</b>		
	Tune to a radio station	11		
	Store radio stations in memory	11		
	Tune to a preset station	11		
	Play with RDS	11		
<b>6</b>	<b>Play from hard media</b>	<b>13</b>		
	Play a disc	13		
	Play from a USB storage device	14		
<b>7</b>	<b>Use Bluetooth devices</b>	<b>15</b>		
	Connect a device	15		
	Play audio from a Bluetooth device	16		
	Make a call	16		
<b>8</b>	<b>Listen to an external player</b>	<b>17</b>		
<b>9</b>	<b>Charge your USB device</b>	<b>17</b>		
<b>10</b>	<b>Adjust sound</b>	<b>18</b>		
<b>11</b>	<b>Adjust system settings</b>	<b>18</b>		
<b>12</b>	<b>Others</b>	<b>19</b>		
	Reset	19		
	Replace fuse	19		
<b>13</b>	<b>Product information</b>	<b>20</b>		
<b>14</b>	<b>Troubleshooting</b>	<b>21</b>		
	General	21		
	About the Bluetooth device	21		
<b>15</b>	<b>Notice</b>	<b>22</b>		
	Compliance	22		
	Care of the environment	22		
	Trademark notice	23		
	Copyright	23		

# 1 Safety

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

- This apparatus is designed for negative ground (earth) 12V DC operation only.
- 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 circuit, do not expose the apparatus to rain or water.
- Never insert objects into the ventilation slots or other openings on the apparatus.
- Clean the apparatus and frame with a soft, damp cloth. Never use substances such as alcohol, chemicals or household cleaners on the apparatus.
- Never place any objects other than discs into the apparatus.
- Never use solvents such as benzene, thinner; cleaners available commercially, or anti-static sprays intended for discs.
- Visible and invisible laser radiation when open. Avoid exposure to beam.



## Caution

- Use of controls or adjustments or performance of procedures other than herein may result in hazardous laser exposure or other unsafe operation.
- The apparatus shall not be exposed to dripping or splashing.
- Do not place any sources of danger on the apparatus (e.g. liquid filled objects, lighted candles).

## 2 Your car audio 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](http://www.philips.com/welcome).

### Introduction

With the in-car audio system, you can listen to

- FM or AM (MW) radio,
- Audio from a CD or MP3 disc,
- Audio from a USB storage device,
- Audio from a Bluetooth device, and
- Audio from an external player.

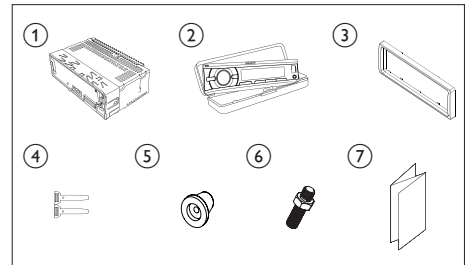
#### Playable media:

- Disc
  - Audio CD, MP3-CD, WMA-CD
  - 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
  - .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

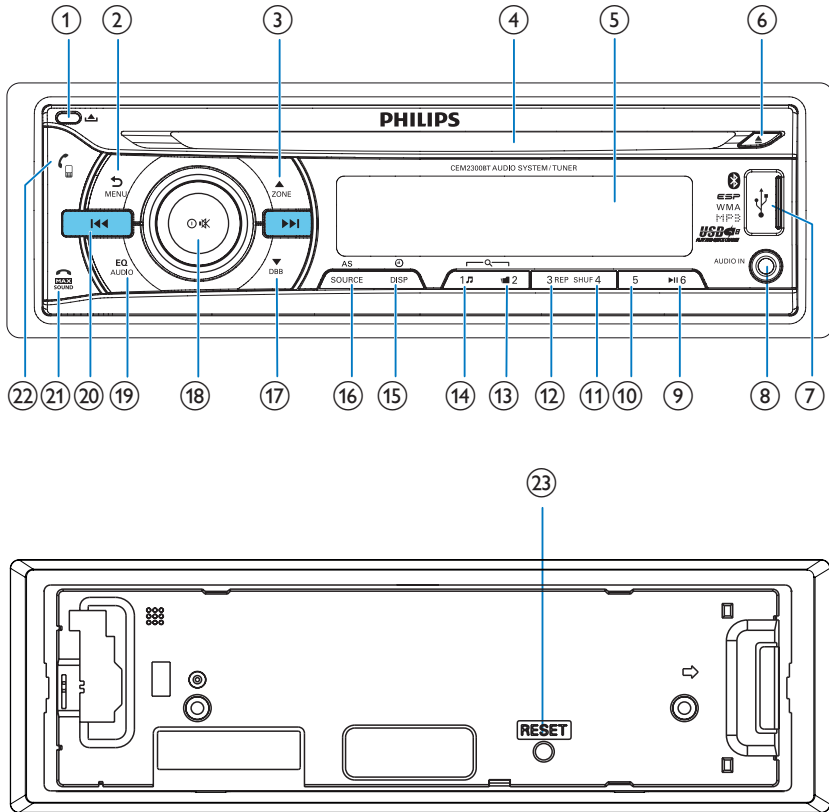
### What's in the box






Check and identify the contents of your package:



- ① Main unit (with a sleeve)
- ② Carrying case (with the front panel included)
- ③ Trim plate
- ④ Disassembly tool x 2
- ⑤ Rubber cushion
- ⑥ Screw x 1
- ⑦ User manual

# Overview of the system



- ① 
  - Unlock the front panel.
- ② 
  - Press to return to the previous menu.
  - Press and hold to access the system menu.
- ③ 
  - For .wma and .mp3 tracks, press to select the previous folder.
  - In radio mode, press to select a tuner band.
  - Press and hold to activate the selection of listening zones.
- ④ **Disc slot**
- ⑤ **LCD screen**
- ⑥ 
  - Eject the disc from the disc compartment.
- ⑦ 
  - Connect to a USB storage device.
- ⑧ **AUDIO IN**
  - Connect to the audio output socket (usually the headphone socket) of an external device.

9 

- Start, pause, or resume the play of tracks.
- 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.

10 5

- 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.

11 SHUF 4

- 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.
- For .wma and .mp3 tracks, press repeatedly to select a play mode: play all tracks randomly (**[SHU ALL]**), play tracks in the current folder randomly (**[SHU FLD]**), or play all tracks in the storage device in sequence (**[SHU OFF]**).

12 3 REP

- 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 .wma and .mp3 tracks, press repeatedly to select a repeat mode: repeat the current track (**[REP ONE]**), repeat all tracks in the current folder (**[RPT FLD]**), or repeat all tracks in the storage device (**[RPT ALL]**).


13  2

- 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 .wma and .mp3 tracks, press to access the folder list.

14 1 

- 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 .wma and .mp3 tracks, press to access the track list.

15  /DISP

- Press repeatedly to display available information about the current track.
- Press repeatedly to display available RDS information.
- Press and hold to display the set clock.

16 AS/SOURCE

- Press repeatedly to select a source.
- In radio mode, press and hold to activate the automatic search of radio stations.

17 

- Press and hold to enable or disable the DBB (dynamic bass boost) sound effect.
- For .wma and .mp3 tracks, press to select the next folder.
- In radio mode, press to select a tuner band.

18 

- Press to turn on the system.
- Press and hold to turn 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.

19 

- Press repeatedly to select a preset sound equalizer.
- Press and hold to activate the setup of bass, treble, balance, and fader.

⑳ 

- Tune to a radio station.
- Press to skip to the previous or next track.
- Press and hold to rewind a track or search fast forward.

㉑ 

- Press to hang up an ongoing call.
- When there is an incoming call, press to reject it.
- When it is not in a call, press to enable or disable the **MAX Sound** feature.

㉒ 

- When there is an incoming call, press to answer.
- Press and hold to redial the last called number.
- In a call, press and hold to transfer the voice between the phone and the car speakers.

㉓ **RESET**

- Press to reset the system to factory default settings.

## 3 Install the car audio system



### Caution

- Use the controls only as stated in this user manual.

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 or 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.

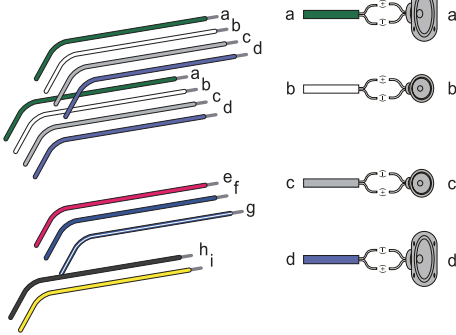


## Connect wires

### Note

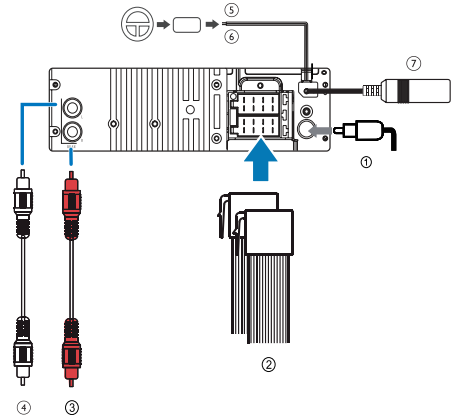
- Consult a professional to connect CEM2300BT as instructed below.

- Check the car's wiring carefully and connect them to the the male connector:



ISO male connectors	Connect to
a Green strip, black-edged green strip	Left speaker (Rear)
b White strip, black-edged white strip	Left speaker (Front)
c Gray strip, black-edged gray strip	Right speaker (Front)
d Purple strip, black-edged purple strip	Right speaker (Rear)
e Red	Ignition key +12V DC when ON/ACC
f Blue	Motor/electric antenna relay control lead
g White edged blue strip	Amplifier relay control lead
h Black	Ground
i Yellow	To the +12V car battery which is energized at all times

- Connect the antenna and amplifier as illustrated, if applicable.



Connector	Connect to
1 ANTENNA	Antenna
2 Socket for ISO male connectors	As indicated in Step 1 above
3 REAR LINE OUT R (Socket)	Rear right speaker
4 REAR LINE OUT L (Socket)	Rear left speaker
5 OE REMOTE (Purple)	OE Remote
6 OE REMOTE (Black)	Ground
7 External Mic (Black connector)	External microphone

### Tip

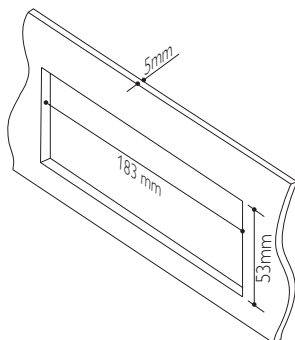
- The pin arrangement for the ISO connectors depends on the type of vehicle you drive. Be sure to make proper connections to prevent damage to the unit.

## Mount into the dashboard

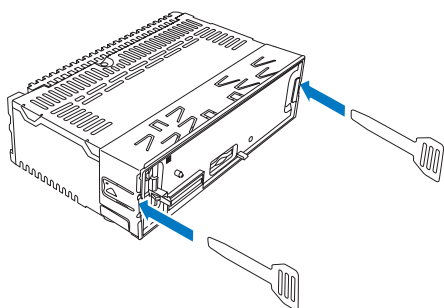
- If the car does not have an on-board drive or navigation computer, disconnect the negative terminal of the car battery.

- If you disconnect the car battery in a car that has an on-board drive or navigation computer, the computer may lose its memory.
- If the car battery is not disconnected, to avoid short-circuit, ensure that the bare wires do not touch each other.

2 Ensure that car dashboard opening is within these measurements:



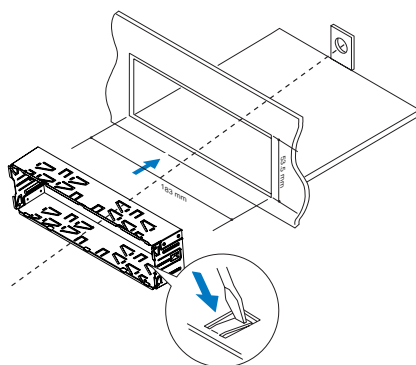
3 Remove the mounting sleeve with the supplied disassembly tools.



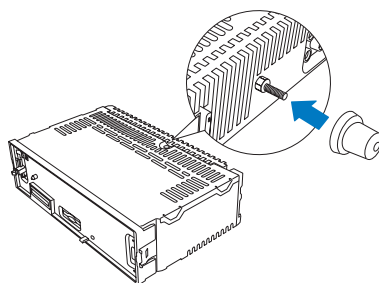
4 Install the sleeve into the dashboard and bend the tabs outward to fix the sleeve.

**Note**

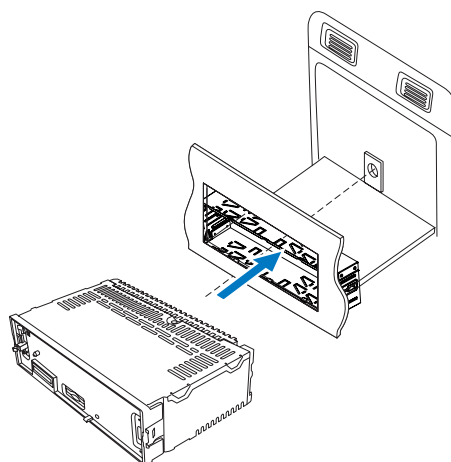
- If the unit is not fixed by sleeve but by the supplied screws, skip this step.



5 Place the supplied rubber cushion over the end of the mounting bolt.



6 Slide the unit into the dashboard until you hear a click sound.

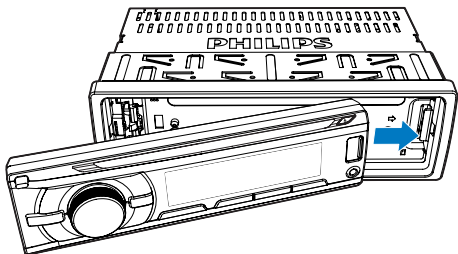


- 7 Reconnect the negative terminal of the car battery.

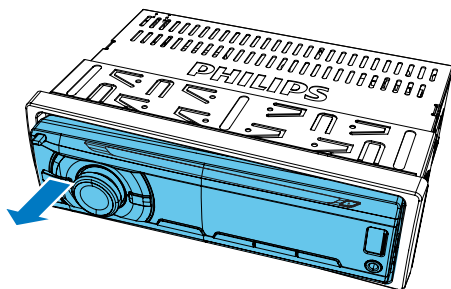
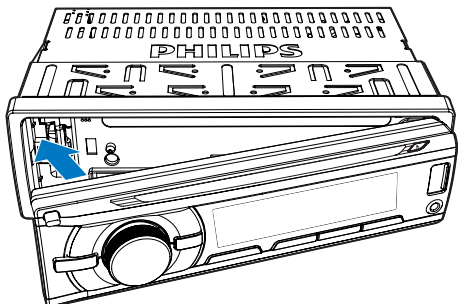
---

## 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 detach the front panel, make sure that the system is turned off.

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

# 4 Get started

## For the first time use



Note

- Select correct country/region for this unit, otherwise the unit can not work properly.

- 1 Press **⊙** to turn the unit on.  
↳ **[SELECT OPERATING REGION]** is displayed.
- 2 Rotate **⊙** to select an option:
  - **[USA]** (United States)
  - **[LATIN]** (Latin America)
  - **[EUROPE]** (Western Europe)
  - **[RUSSIA]** (Russia)
  - **[MID-EAST]** (Middle East)
  - **[ASIA]** (Pacific)
  - **[JAPAN]** (Japan)
  - **[AUSTRALIA]** (Australia)
- 3 Press **⊙** to confirm.

## Set the time format

- 1 Press and hold **↵**.
- 2 Press **▲** or **▼** repeatedly until **[CLOCK FORMAT]** is displayed.
- 3 Rotate **⊙** to select a setting.
  - **[CLK 12H]**: 12-hour time format
  - **[CLK 24H]**: 24-hour time format

## Set the clock

- 1 Press and hold **↵**.
- 2 Press **▲** or **▼** repeatedly until **[CLOCK SET]** is displayed.
- 3 Rotate **⊙** to set the hour.
- 4 Press **⊙** to confirm.

- 5 Rotate **⊙** to set the minute.
- 6 Press **⊙** to confirm.

## Display the clock

In any mode, press and hold **⊙** until the clock is displayed.

- Press any key to cancel the clock display.

## Turn on

- To turn on the unit, press **⊙**.
- To turn off the unit, press and hold **⊙** until the unit is turned off.

## Switch music listening zone

Philips' innovative Zone technology enables driver or passengers to enjoy music with the best speakers balance and experience more vivid spacial effect as the artist is intended to create. You can switch the music listening zone from driver to passengers for the best speaker sound settings in car.

- 1 Press and hold **▲**.  
↳ The current setting is displayed.
- 2 Press **▲** / **▼** to select a setting.
  - **[ALL]**
  - **[FRONT]** (Front)
  - **[RIGHT]** (Right)
  - **[LEFT]** (Left)

## Mute the button beep

Each time you press a button, the unit beeps. You can turn this beep sound on or off.

- 1 Press and hold **↵**.
- 2 Press **▲** or **▼** repeatedly until **[BEEP TONE]** is displayed.
- 3 Rotate **⊙** to select a setting:
  - **[BEEP ON]**: turn the beep sound on.
  - **[BEEP OFF]**: turn the beep sound off.

## 5 Listen to radio

---

### Tune to a radio station

- 1 Press **SOURCE** repeatedly to select radio mode.
- 2 Press  $\blacktriangle$  /  $\blacktriangledown$  repeatedly to select a band: [FM1], [FM2], [FM3], [AM1], or [AM2].
- 3 Press and hold  $\blacktriangleleft$  or  $\blacktriangleright$  until the frequency digit is flashed.
- 4 Press  $\blacktriangleleft$  or  $\blacktriangleright$  to tune to a radio station manually.
  - ↳ The radio station is broadcast.
  - To search for a radio station automatically, press  $\blacktriangleleft$  or  $\blacktriangleright$ .

---

### Select tuner region

You can select suitable country/region of the radio.

- 1 Press and hold  $\text{SRC}$ .
- 2 Press  $\blacktriangle$  or  $\blacktriangledown$  repeatedly until [AREA] is displayed..
- 3 Rotate  $\text{OK}$  to select a region.
  - [USA] (United States)
  - [LATIN] (Latin America)
  - [EUROPE] (Western Europe)
  - [RUSSIA] (Russia)
  - [MID-EAST] (Middle East)
  - [ASIA] (Asia Pacific)
  - [JAPAN] (Japan)
  - [AUSTRALIA] (Australia)
- 4 Press  $\text{OK}$  to confirm.

---

### Select tuner sensitivity

To receive more radio stations or only stations with strong signal, you can adjust the tuner sensitivity.

- 1 Press and hold  $\text{SRC}$ .
- 2 Press  $\blacktriangle$  or  $\blacktriangledown$  repeatedly until [LOCAL] is displayed.
- 3 Rotate  $\text{OK}$  to select a setting.
  - [LOCAL ON] (local on): only stations with strong signal can be broadcast.
  - [LOCAL OFF] (local off): stations with strong and weak signals can be broadcast.

---

### Store radio stations in memory

You can store up to 6 stations in each band.

---

#### Store stations automatically

- In Radio mode, press and hold **AS** until [STORE - - -] is displayed.
  - ↳ The six strongest stations of the selected band are saved in preset channel automatically.

---

#### Store stations manually

- 1 Tune to a station that you want to store.
- 2 Press a numeric button for 3 seconds.
  - ↳ The station is saved in the selected channel.

---

### Tune to a preset station

- Press a numeric key to select a preset station.

---

### Play with RDS

The RDS (Radio Data System) function operates only in areas with FM stations broadcasting RDS signals. If you tune to an RDS station, the station name are displayed.

## Turn on RDS



### Note

- The default setting for RDS is on.

- 1 Press and hold **MEMO**.
- 2 Press **▲** or **▼** repeatedly until **[RDS]** is displayed.
- 3 Rotate **OK** to select **[RDS ON]**.  
↳ The RDS function is turned on.

## Select program type

Before tuning to RDS stations, you can select program type and let the unit search only for programs of the selected category.

- 1 Press and hold **MEMO**.
- 2 Press **▲** or **▼** repeatedly until **[PTY]** is displayed.
- 3 Press **OK** to confirm.
- 4 Rotate **OK** to select a type, then press **OK** to confirm.

Item	Program type	Description
1	<b>NEWS</b>	News services
2	<b>AFFAIRS</b>	Politics and current affairs
3	<b>INFO</b>	Special information programs
4	<b>SPORT</b>	Sports
5	<b>EDUCATE</b>	Education and advanced training
6	<b>DRAMA</b>	Radio plays and literature
7	<b>CULTURE</b>	Culture, religion and society
8	<b>SCIENCE</b>	Science
9	<b>VARIED</b>	Entertainment programs
10	<b>POP M</b>	Pop music
11	<b>ROCK M</b>	Rock music
12	<b>EASY M</b>	Light music

13	<b>LIGHT M</b>	Light classical music
14	<b>CLASSICS</b>	Classical music
15	<b>OTHER M</b>	Special music programs
16	<b>WEATHER</b>	Weather
17	<b>FINANCE</b>	Finance
18	<b>CHILDREN</b>	Children's programs
19	<b>SOCIAL</b>	Social Affairs
20	<b>RELIGION</b>	Religion
21	<b>PHONE IN</b>	Phone In
22	<b>TRAVEL</b>	Travel
23	<b>LEISURE</b>	Leisure
24	<b>JAZZ</b>	Jazz Music
25	<b>COUNTRY</b>	Country Music
26	<b>NATION M</b>	National Music
27	<b>OLDIES</b>	Oldies Music
28	<b>FOLK M</b>	Folk Music
29	<b>DOCUMENT</b>	Documentary
30	<b>TEST</b>	Alarm Test
31	<b>ALARM</b>	Alarm

## Select alternate frequencies

If the radio signal is poor, turn on AF (Alternate Frequency) to search for another station with stronger signal.

- 1 Press and hold **MEMO**.
- 2 Press **▲** or **▼** repeatedly until **[AF]** is displayed.
- 3 Rotate **OK** to select a setting.
  - **[AF ON]**: turn AF mode on.
  - **[AF OFF]**: turn AF mode off.

### Set region for AF tuning





You can define AF tuning region:

<b>[REG ON]</b>	Only stations in current region can be tuned to automatically.
<b>[REG OFF]</b>	All stations can be tuned to automatically.

- 1 Press and hold **MEMO**.
- 2 Press **▲** or **▼** repeatedly until **[REG]** is displayed.
- 3 Rotate **OK** to select a setting.

## Receive traffic announcement


If you do not want to miss traffic announcement when enjoying music, turn on the TA (Traffic Announcement) function.

- 1 Press and hold .
- 2 Press  or  repeatedly until [TA] is displayed.
- 3 Rotate  to select a setting.
  - [TA ON]: when there is traffic announcement, the unit switches to the tuner mode (regardless of the current mode) and begins to broadcast the traffic conditions. When the traffic announcement is over, it returns to the previous mode.
  - [TA OFF]: traffic announcement does not cut in.

### Note





- If the current received TA signal remains weak for over 120 seconds, the unit will activate TA Seek mode automatically. The TA Seek will seek for other station with good condition of TA signal.

### Tip

- When a traffic announcement cuts in, user can press  to terminate the traffic announcement, and the unit will resume to previous playback mode.

## Set RDS clock

You can use time signal that is broadcast together with the RDS signal to set the clock of the unit automatically.

- 1 Press and hold .
- 2 Press  or  repeatedly until [CT] is displayed.
- 3 Rotate  to select a setting:
  - [CT ON]: Turn on the RDS clock. Time shown on the unit synchronizes with that on the RDS station.
  - [CT OFF]: Turn off the RDS clock.

### Tip

- The accuracy of the transmitted time depends on the RDS station that transmits the time signal.

# 6 Play from hard media

You can use this system to listen to audios that are stored on a compatible disc or USB storage device.








## Play a disc

### Note


- You cannot play a CD encoded with copyright protection technologies.
- Ensure that the disc contains playable content.

Insert a CD with the printed side facing up.

↳ Play starts automatically.

- To pause CD play, press .
- To resume CD play, press  again.
- To skip to the previous/next track, press  or .
- To search backward/forward rapidly within the current track, press and hold  or .
- To eject the CD, press  on the front panel.

### Tip

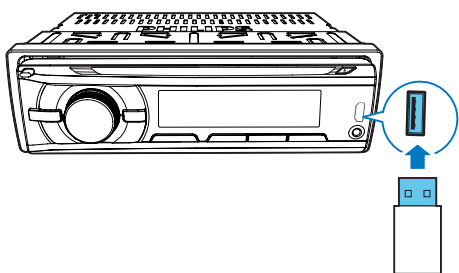
- If the disc is blocked in the disc compartment, press and hold  until the disc comes out.

## Play from a USB storage device

This system can play .mp3 and .wma files that are copied onto a compatible storage device.

### Note

- Gibson Innovations does not guarantee compatibility with all storage devices.
- NTFS (New Technology File System) file system is not supported.



- 1 Connect a compatible USB storage device.
- 2 Press **AS/SOURCE** repeatedly to switch the source to **[USB]**.
- 3 If the play does not start, press **▶||6**.

## Control play

Button	Function
<b>▲ / ▼</b> ZONE / DSB	Press repeatedly to select a folder.
<b>▶  6</b>	Start, pause or resume play.
<b>◀◀ / ▶▶</b>	Press to play the previous or next track.
<b>◀◀ / ▶▶</b>	Press and hold to rewind a track or search forward fast.
<b>DISP</b>	Press repeatedly to display available information about the current track.

**3 REP**

Press repeatedly to select a repeat mode:

- **[REP TRK]** (repeat one track): play current track repeatedly.
- **[REP FLD]** (repeat a folder): play all tracks in the current folder repeatedly.
- **[REP ALL]** (repeat all tracks): play all tracks repeatedly.

**SHUF 4**

Press repeatedly to select a play mode:

- **[SHUF FLD]**: start random play for all tracks in the current folder.
- **[SHUF ALL]**: start random play for all tracks.
- **[SHUF OFF]**: cancel shuffle play.

## Switch tracks

During play, you can switch tracks or folders quickly.

### Switch tracks directly

- 1 Press **1** to access the track list.  
↳ The file name of current track scrolls.
- 2 Rotate **◻** to toggle through tracks.
- 3 Press **◻** to play the selected track.

### Switch folders for a track

- 1 Press **2** to access the folder list.  
↳ The name of current folder scrolls.
- 2 Rotate **◻** to toggle through folders.
- 3 Press **◻** to select the folder.  
↳ The system starts playing the first track under the folder.



# 7 Use Bluetooth devices


With this car audio system, you can listen to audio from a player or make a call through Bluetooth.

## Connect a device





### Note

- Gibson Innovations does not guarantee the compatibility with all Bluetooth devices.
- Before pairing a device with this system, read its user manual for Bluetooth compatibility.
- Make sure that Bluetooth function is enabled on your device, and your device is set as visible to all other Bluetooth devices.
- At one time, you can connect only one Bluetooth device to this system.
- The operational range between this system and a Bluetooth device is approximately 3 meters (9 feet).
- Any obstacle between this system and a Bluetooth device can reduce the operational range.
- Keep away from any other electronic device that may cause interference.

On your device, follow the steps below.

- 1 Search for Bluetooth devices.
- 2 In the device list, select **CEM2300BT**.
- 3 Enter the default password "0000", and then confirm the password entry.
  - ↳ If the pairing succeeds, **[PAIRED]** is displayed on the LCD screen of this system.
- 4 Enable or permit the connection with CEM2300BT.
  - ↳ If the connection succeeds, **[CONNECTED]** scrolls and  is displayed on the LCD screen of this system.
  - ↳ If the connection fails, **[FAILED]** is displayed on the LCD screen of this system.

## Disconnect a device





- 1 Press and hold  to access the system menu.
- 2 Press  /  repeatedly until **[DISCONN]** is displayed.
- 3 Press 
  - ↳ **[WAIT]** is displayed with -, --, and --- blinking alternately until **[DISCONN OK]** scrolls.

### Tip

- You can also complete the disconnection on your device.

## Reconnect a device

Some Bluetooth devices support the automatic reconnection with a paired Bluetooth device. If your device does not support automatic reconnection, reconnect it with this system manually.

- 1 Press and hold  to access the system menu.
- 2 Press  /  repeatedly until **[CONNECT]** is displayed.
- 3 Press 
  - ↳ **[WAIT]** is displayed with -, --, and --- blinking alternately until **[CONNECTED]** scrolls or **[FAILED]** appears.
  - ↳ If **[CONNECTED]** scrolls, this system is reconnected to the last connected device.

### Tip

- You can also complete the reconnection on your device.

---

## Play audio from a Bluetooth device

If the connected Bluetooth device supports Advanced Audio Distribution Profile (A2DP), you can listen to tracks that are stored on the device through the system. If the device also supports Audio Video Remote Control Profile (AVRCP) profile, you can control play on the system.

- 1 Play a track on the connected device.
- 2 Press **SOURCE** repeatedly to switch the source to **[BT AUDIO]**.
  - ↳ Play starts automatically.
    - To pause or resume play, press **▶||◀**.
    - To skip to the previous or next track, press **◀◀◀ / ▶▶▶**.



### Note

- If the connected device does not support the AVRCP profile, control play on the connected device.

---

## Make a call



### Note

- Keep the Bluetooth connection active between the system and your mobile phone.

---

## Call a number

On your mobile phone, call a number:

- ↳ **[CALLING]** is displayed.

---

## Redial the last called number

- Press and hold **☎**.
  - ↳ **[REDIAL]** is displayed.

---

## Pick up an incoming call

When the system receives an incoming call, the phone number or **[PHONE IN]** is displayed. Press **☎** to answer the call.

---

## Reject an incoming call

Press and hold **☎** until **[END]** is displayed.

---

## End a call

To end an on-going call, press **☎**.

---

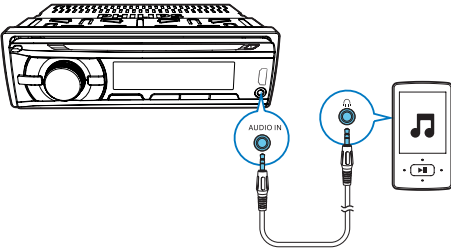
## Transfer a call to mobile phone

By default, the voice comes from the loudspeakers during a call.

- 1 Press and hold **☎** until **[TRANSFER]** is displayed.
  - ↳ The loudspeakers are muted, and the voice comes from your mobile phone only.
- 2 Take up your mobile phone for the conversation.

## 8 Listen to an external player

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



- 1 Press **AS/SOURCE** repeatedly to switch the source to **[AUDIO IN]**.
- 2 Connect an audio input cable with a 3.5 mm connector on both ends between
  - the **AUDIO IN** socket on the front panel, and
  - the audio output socket (usually the headphone socket) on the external player.
- 3 Play audio on the external player.

## 9 Charge your USB device

You can charge your USB device, for example, smart phone, with this product.

### Note

- The output voltage through the USB socket is 5 V with output current 1.0 A.

Connect your USB device to this product with USB cable. Once the USB device is connected and recognized, it begins to charge automatically.

# 10 Adjust sound

The following operations are applicable to all supported media.

Button	Function
	Rotate to increase or decrease the volume level.
	Press to mute or restore sound.
	When it is not in a call, press to enable or disable the <b>MAX Sound</b> feature.
	Press and hold to enable or disable the DBB (dynamic bass boost) sound effect.
	Press to select a preset sound equalizer: <ul style="list-style-type: none"> <li>• <b>[OPTIMAL]</b> (optimal)</li> <li>• <b>[FLAT]</b> (flat)</li> <li>• <b>[POP]</b> (pop)</li> <li>• <b>[USER]</b> (user)</li> <li>• <b>[TECHNO]</b> (techno)</li> <li>• <b>[ROCK]</b> (rock)</li> <li>• <b>[CLASSIC]</b> (classic)</li> <li>• <b>[JAZZ]</b> (jazz)</li> </ul>
	<ol style="list-style-type: none"> <li>1 Press and hold to activate the setup of customized sound equalizer.</li> <li>2 Press  or  repeatedly to select the item to be adjusted:               <ul style="list-style-type: none"> <li>• <b>[BASS]</b> (bass) range: -7 to +7.</li> <li>• <b>[TREBLE]</b> (treble) range: -7 to +7.</li> <li>• <b>[BAL]</b> (balance) range: 12L to 12R. (L = left speaker; R = right speaker)</li> <li>• <b>[FADER]</b> (fader) range: 12R to 12F. (R = rear speaker; F = front speaker)</li> </ul> </li> <li>3 Rotate  to select a value.</li> </ol>

# 11 Adjust system settings

- 1 Press to access system settings.
- 2 Press or repeatedly until one of the following settings scrolls.
  - **[BEEP TONE]**, **[DIMMER]**, **[DEMO]**, **[BLACK OUT]**, or **[DANCE]**
- 3 Rotate to change the setting.

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

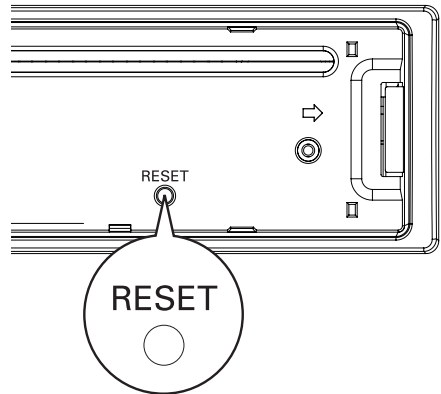
[BLACK OUT]	[BKO 10 S]	Turn off the screen automatically 10 seconds after last operation.
	[BKO 20 S]	Turn off the screen automatically 20 seconds after last operation.
	[BKO OFF]	Never turn off the screen.
[DANCE]	[DANCE ON]	Enable the spectrum on the LCD display.
	[DANCE OFF]	Disable the spectrum on the LCD display.

## 12 Others

### Reset

You can reset the unit to its default setting.

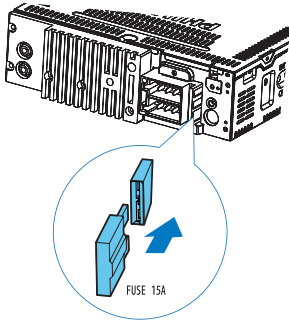
- 1 Detach the front panel.
- 2 Press the reset button by using a ball-point pen or a similar tool.
  - ↳ Preset adjustments such as preset channels and sound adjustments are erased.



### Replace fuse

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

- 1 Check the electric connection.
- 2 Remove the damaged fuse from the rear panel.
- 3 Insert a new fuse with the same specification (15 A).



### Note

- If the new fuse gets damaged again, there may be an internal malfunction. Consult your local retailer.

# 13 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 $\Omega$
Maximum power output	50 W $\times$ 4
Continuous power output	22 W $\times$ 4 RMS (4 $\Omega$ 10% T.H.D.)
Pre-Amp output voltage	2.5V
Aux-in level	500 mV
Dimensions (W $\times$ H $\times$ D)	181.5 $\times$ 52 $\times$ 191.4 mm
Weight	1.47 kg

### Radio

Frequency range - FM	87.5 - 108.0 MHz
Frequency range - AM(MW)	522 - 1620 KHz (9 kHz) 530 - 1710 kHz (10 kHz)
Usable sensitivity - FM	8 $\mu$ V
Usable sensitivity - AM(MW)	30 $\mu$ V

### Bluetooth

Output power	Class 2
Frequency band	2.4000 GHz - 2.4835 GHz ISM Band
Range	3 meters (free space)
Standard	Bluetooth 2.0 specification

# 14 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 device, check the following points before requesting service. If the problem remains unsolved, go to the Philips Web page ([www.philips.com/support](http://www.philips.com/support)). When you contact the Consumer Care, make sure that the product is nearby and the model number and serial number are available.

---

## General

### No power or no sound.

- Car engine is not on. Turn the car engine on.
- Cable is not correctly connected. Check connections.
- Fuse is burnt. Replace fuse.
- Volume is too low. Adjust volume.
- If the above solutions cannot help, press **RESET** button.
- Ensure that the track played is of a compatible format.

### Noise in broadcasts.

- Signals are too weak. Select other stations with stronger signals.
- Check the connection of the car antenna.
- Change broadcast from Stereo to mono.

### Cannot play disc

- Ensure that the disc label is inserted with the printed side facing up.
- Wipe the disc with fibre cleaning cloth from the centre to the edge in a straight line.
- This disc may be defective. Play another disc.

- Ensure that the CD is a finalised CD/ CD-R/CD-RW.
- Ensure that the CD is not encoded with copyright protection technologies.

### The CD skips tracks

- Ensure that the CD is not damaged or dirty.
- Ensure that random mode is deactivated.

### Disc cannot be ejected

- Press and hold **▲**.

### Preset stations lost.

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

### Display show ERR-12

- USB data error. Check the USB device.

---

## About the Bluetooth device

### Music playback is unavailable on the system even after successful Bluetooth connection.

- The device cannot be used with the system to play music.

### The audio quality is poor after connection with a Bluetooth-enabled device.

- The Bluetooth reception is poor. Move the device closer to the system or remove any obstacle between the device and the system.

### Cannot connect with the system.

- The device does not support the profiles required for the system.
- The Bluetooth function of the device is not enabled. Refer to the user manual of the device to find out how to enable the function.
- The system is not in the pairing mode.
- The system is already connected with another Bluetooth-enabled device. Disconnect that device or all other connected devices and then try again.

**The paired mobile phone connects and disconnects constantly.**

- The Bluetooth reception is poor: Move the mobile phone closer to the system or remove any obstacle between the mobile phone and the system.
- Some mobile phones may connect and disconnect constantly when you make or end calls. This does not indicate any malfunction of the system.
- For some mobile phones, the Bluetooth connection may be deactivated automatically as a power-saving feature. This does not indicate any malfunction of the system.

# 15 Notice

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

---

## Compliance

This apparatus includes this label:



---

## Care of the environment

### Disposal of your old product



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



This symbol on a product means that the product is covered by European Directive 2012/19/EU. Inform yourself about the local separate collection system for electrical and electronic products. Follow local rules and never dispose of the product with normal household waste. Correct disposal of old products helps prevent negative consequences for the environment and human health.



## 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

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Gibson Innovations is under license.



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

Other trademarks and trade names are those of their respective owners.

---

## Copyright

2015 © Gibson Innovations Limited. All rights reserved.

Philips and the Philips' Shield Emblem are registered trademarks of Koninklijke Philips N.V. and are used by Gibson Innovations Limited under license from Koninklijke Philips N.V." Specifications are subject to change without notice. Gibson reserves the right to change products at any time without being obliged to adjust earlier supplies accordingly.



2015 © Gibson Innovations Limited. All rights reserved.  
Philips and the Philips' Shield Emblem are registered  
trademarks of Koninklijke Philips N.V. and are used  
by Gibson Innovations Limited under license from  
Koninklijke Philips N.V.

CEM2300BT\_12\_UM\_Online\_V2.0

