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CMD310



User manual	1
Manual del usuario	27
Руководство пользователя	57

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Contents

1	Important	2
	Safety	2
	Notice	2
2	Your car audio system	4
	Introduction	4
	What's in the box	4
	Overview of the system	5
3	Before use	7
	Install the car audio system	7
4	Get started	10
	Turn on	10
	Change system settings	10
	Set the clock	11
	Select a source	11
5	Listen to radio	12
	Select a radio region	12
	Select a tuner sensitivity	12
	Tune to a radio station	12
	Store radio stations in memory	12
	Tune to a preset station	13
	Play with RDS	13
6	Use Bluetooth devices	15
	Pair a device	15
	Play audio from a Bluetooth device	15
	Make a call	15
7	Play from a USB storage device	16
	Control play	16
8	Listen to an external device	17

9	Use the dock	17
	Compatible iPod/iPhone models	17
	Prepare for docking	17
	Load your iPhone or iPod touch	18
	Adjust the dock bracket	18
	Pair your iPhone via Bluetooth	19
	Enjoy audio through the dock	19
	Use the CarStudio application	20
	Charge your iPhone or iPod touch	20
	Undock your iPhone or iPod touch	20
	Store the dock bracket	21
10	Adjust sound	21
	Adjust the volume level	21
	Mute sound	21
	Use the DBB sound effect	21
	Enable the max sound	21
	Select a listening zone	21
	Enable the full-range sound	22
	Select a preset sound equalizer	22
	Other sound settings	22
11	Adjust system settings	22
12	Additional information	23
	Reset the system	23
	Replace the fuse	23
13	Product information	24
14	Troubleshooting	25
	General	25
	About Bluetooth device	25
15	Glossary	26

1 Important

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.

- Modification of the product could result in hazardous radiation of EMC or other unsafe operation.
- The device is designed for negative ground (earth) 12 V DC operation only.
- To reduce the risk of traffic accidents, do not pick up or make a phone call, nor 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.
- Clean the device with soft, damp cloth. Never use substances such as alcohol, chemicals or household cleaners on the device.
- The dock is designed for iPhone and iPod touch only. Do not connect any other device to it.
- Risk of damage to the dock bracket: Do not place or hang any object on it.

- Risk of firing or damage to the car audio system: Do not place any other object into the compartment for dock bracket.
- Risk of damage to your iPhone or iPod touch: Unload your iPhone or iPod touch from the dock before you store the dock bracket.

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 product complies with the radio interference requirements of the European Community.

Care of the environment



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 that the product is covered by the European Directive 2002/96/EC. Please inform yourself 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 products with your normal household waste.
Correct disposal of your old product helps to prevent potential 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.

Made for



iPod



iPhone

“Made for iPod” and “Made for iPhone” mean that an electronic accessory has been designed to connect specifically to iPod or iPhone respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance. iPod and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries. Other trademarks and trade names are those of their respective owners.

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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.

Introduction

With this system, you can:

- enjoy audio from USB storage devices, iPhone, iPod touch, and other external devices,
- listen to radio stations,
- charge your iPhone or iPod touch, and
- make phone calls.

You can enrich sound output with these sound effects:

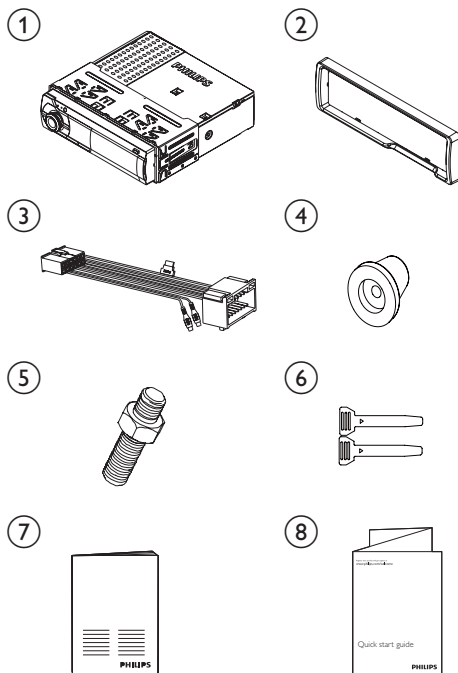
- Dynamic bass boost (DBB)
- Automatic loudness control

Playable media:

- USB storage device
 - Compatibility: USB 2.0, USB 1.1
 - Class support: MSC (Mass Storage Class)
 - File system: FAT16, FAT32
 - Files: .mp3, .wma
 - Maximum number of albums/folders: 99
 - Maximum number of tracks/files: 999
 - Maximum level of directory: 8
- iPhone and iPod models
 - iPhone 4S
 - iPhone 4
 - iPhone 3GS
 - iPhone 3G
 - iPod touch (3rd and 4th generations)

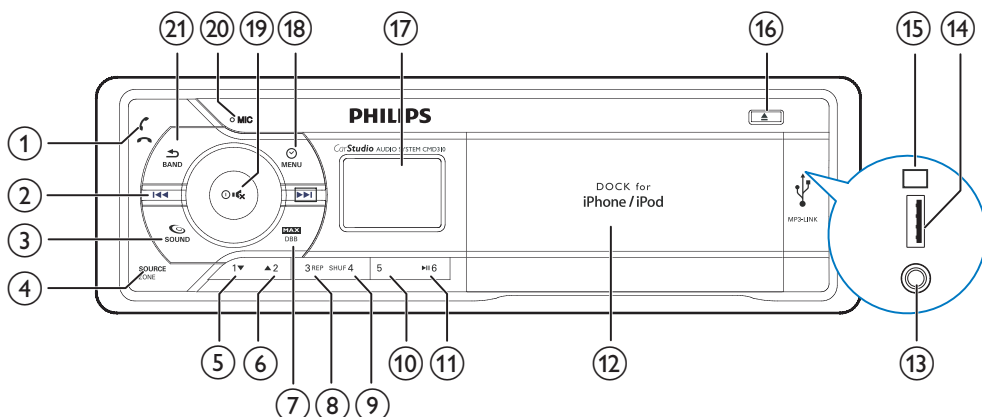
What's in the box

Check and identify the contents of the package:



- ① Main unit and front panel (with a sleeve)
- ② Trim plate
- ③ ISO standard connector
- ④ Rubber cushion
- ⑤ 1 x Screw
- ⑥ 2 x Disassembly tools
- ⑦ User manual
- ⑧ Quick start guide

Overview of the system



- ①
- Press to answer or redial a call.
 - Press to hang up a call.
- ②
- Tune to a radio station.
 - Press to skip to the previous track.
 - Press and hold to rewind a track.
- ③ **SOUND**
- Press to enable or disable the full sound.
 - Press and hold to access the sound setting menu.
- ④ **SOURCE ZONE**
- Press repeatedly to select a source.
 - Press and hold to activate the selection of listening zones.
- ⑤
- 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/.mp3 tracks, press to select the next album/folder.

- ⑥
- 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/.mp3 tracks, press to select the previous album or folder.
- ⑦ **MAX DBB**
- Press to enable or disable the maximum volume.
 - Press and hold to enable or disable the DBB (dynamic bass boost) sound effect.
- ⑧ **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 tracks, press to select a repeat mode: repeat the current track, or repeat all tracks in the current album or folder.

⑨ 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 tracks, press to start playing all tracks in the current album or folder randomly.

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 ►II 6

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

⑫ Dock for iPhone/iPod touch

⑬ MP3-LINK

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

⑭ USB

- Connect to a USB storage device.

⑮ RESET

- Press to reset the system to factory default settings.

⑯ ▲

- Press to eject the dock bracket.

⑰ LCD screen

⑱ MENU

- Press once to display the system clock.
- Press and hold to access the system menu.

⑲

- Press to turn on the system.
- Press and hold to turn off the system.
- Press to mute the system or release it from mute status.
- Press to confirm an option.
- Rotate to switch between menu options.
- Rotate to adjust the volume level.

⑳ MIC

- Integrated microphone.

㉑ BAND

- Press to exit the current menu.
- Press repeatedly to select a tuner band.
- Press and hold to transfer a call.

3 Before use



Caution

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

Always follow the instructions in this chapter in sequence.

If you contact Philips, you will be asked for the model number and serial number of your car audio system. The model number and serial number are on its bottom. Write the numbers here:

Model No.: _____

Serial No.: _____

Install the car audio system

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.



Caution

- 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.

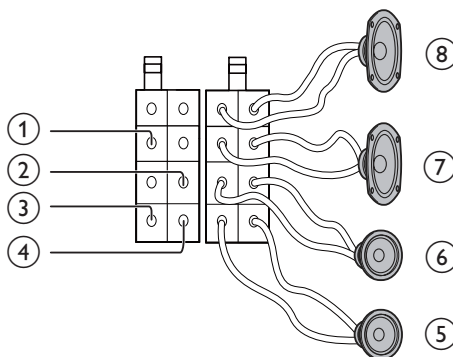
Connect wires



Caution

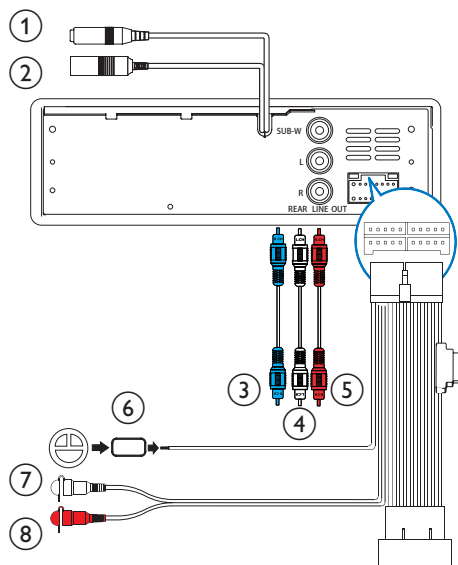
- Make sure that all loose leads are insulated with electrical tape.

- 1 Check the car's wiring carefully, and then connect them to the supplied ISO wires.



	Connector	Connect to
1	Yellow wire	The +12V car battery which is live at all times
2	Blue/White wire	The electric antenna control lead or power supply lead of the antenna booster. If there is no electric antenna or antenna booster, or it is manually operated telescopic antenna, it is unnecessary to connect this lead.
3	Black wire	A metal surface of the car. Connect the black ground (earth) lead before connecting the yellow and red power supply leads.
4	Red wire	The +12V power terminal which is live in the accessory (ACC) position of the ignition switch. If there is no accessory position, connect to the +12V car battery terminal that is always live. Make sure that the black ground (earth) lead is connected to a metal surface of the car first.
5	Green and green/black wires	Left speaker (rear)
6	White and white/black wires	Left speaker (front)
7	Gray and gray/black wires	Right speaker (front)
8	Purple and purple/black wires	Right speaker (rear)

- 2 Connect the other end of the supplied standard connector to the car audio system.



	Connector	Connect to
1	ANTENNA	Antenna for radio
2	External Mic	An external microphone for phone call
3	SUBWOOFER (Socket)	Subwoofer
4	REAR LINE OUT L (Socket)	Rear left speaker
5	REAR LINE OUT R (Socket)	Rear right speaker
6	OE REMOTE (Brown)	OE remote
7	FRONT LINE OUT L	Front left speaker
8	FRONT LINE OUT R	Front right speaker

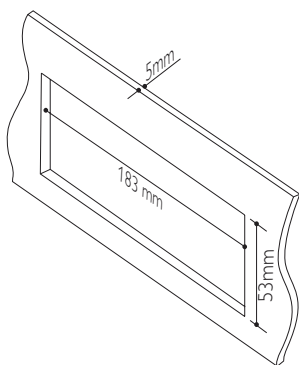


Tip

- 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 system.

Mount into the dashboard

- 1 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, make sure that the bare wires do not touch each other.
- 2 Make sure that the car dashboard opening is within these measurements:

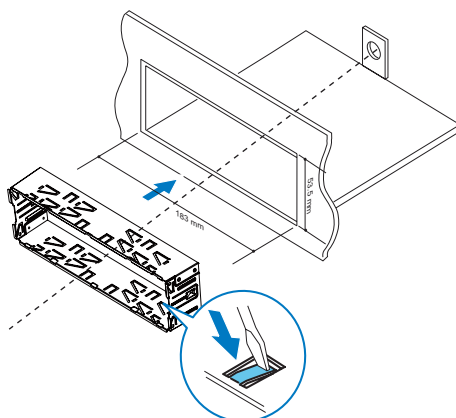


- 3 Install the sleeve into the dashboard and bend the tabs outward to fix the sleeve.

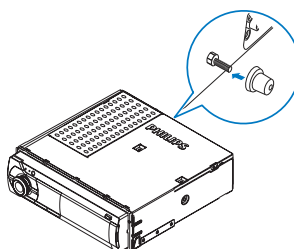


Note

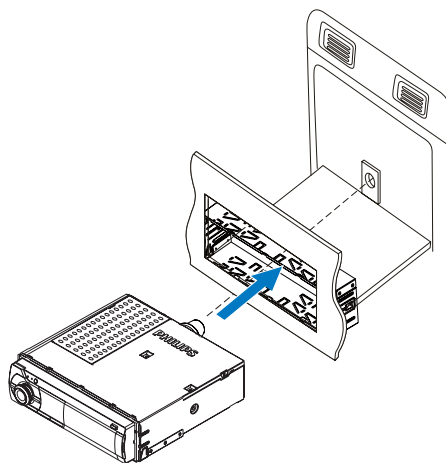
- If the system is not fixed by sleeve but by the supplied screws, skip this step.



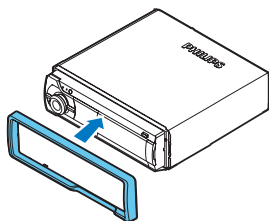
- 4 Place the supplied rubber cushion over the end of the mounting bolt.



- 5 Slide the system into the sleeve until you hear a "click".



- 6 Attach the trim plate.



- 7 Reconnect the negative terminal of the car battery.

4 Get started





Turn on

Press .







↳ [WELCOME] scrolls.

- To turn off the system, press and hold  until [GOODBYE] is displayed.

Change system settings




- 1 Press and hold  to access the system menu.
- 2 Press  repeatedly to select an option.
 - [RDS]
 - [PTY >]
 - [RDS AF]
 - [RDS TA]
 - [RDS REG]
 - [RDS CT]
 - [STORE >]
 - [AREA]
 - [LOCAL]
 - [CLOCK]
 - [CLOCK 12H]
 - [BEEP]
 - [BKO]
 - [DIMMER]
 - [DEMO]
- 3 Rotate  to select a setting.
 - To exit the setting, press .

Set the clock

- 1 Press and hold  to access the system menu.
- 2 Press  repeatedly until **[CLOCK]** and the current time are displayed.
 - ↳ If the clock is not set before, **[00:00]** is displayed.
- 3 Rotate  to set the hour.
- 4 Press  to confirm.
- 5 Rotate  to set the minute.
- 6 Press  to confirm.

- **[USB]**: When a USB storage device is connected and recognized, you can select this source to play audio files that are stored on it.
- **[iPHONE]**: When an iPhone or iPod touch is connected and recognized, you can select this source to play the playlist of iPhone or iPod touch.

Set the clock format

- 1 Press and hold  to access the system menu.
- 2 Press  repeatedly until **[CLOCK 12H]** or **[CLOCK 24H]** is displayed.
- 3 Rotate  to select a setting.
 - **[CLOCK 12H]**: 12-hour time format
 - **[CLOCK 24H]**: 24-hour time format

Display the clock

Press  to display the clock.

- To exit, press any button.

Select a source



Note

- When all other sources are unavailable, the system switches the source to **[RADIO]** automatically.




Press  repeatedly to select a source.

- **[RADIO]**: FM/AM radio
- **[MP3-LINK]**: the audio input through the MP3-LINK socket
- **[BT AUDIO]**: the audio transferred from a Bluetooth device

5 Listen to radio




Select a radio region

You can select a radio region that matches your location.









- 1 Press and hold  to access the system menu.
- 2 Press  repeatedly until **[AREA]** is displayed.
- 3 Rotate  to select an option.
 - **[USA]** (United States)
 - **[EUR]** (Western Europe)
 - **[RUS]** (Russia)
 - **[AUS]** (Australia)
 - **[EAS]** (Middle East)
 - **[ASI]** (Asia Pacific)
 - **[JAP]** (Japan)
 - **[LAT]** (Latin America)

Select a tuner sensitivity

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

- 1 Press and hold  to access the system menu.
- 2 Press  repeatedly until **[LOCAL]** is displayed.
- 3 Rotate  to select a setting.
 - **[LOCAL ON]** (local on): Search stations with strong signals only.
 - **[LOCAL OFF]** (local off): Search stations with strong and weak signals.

Tune to a radio station

- 1 Press  repeatedly to switch the source to **[RADIO]**.
- 2 Press  repeatedly to select a band: **[FM1]**, **[FM2]**, **[FM3]**, **[AM1]**, or **[AM2]**.
- 3 Press and hold  or  until the frequency digits blink.
- 4 Press  or  repeatedly to tune to a radio station manually.
 - ↳ The radio station is broadcast.
 - To search for a radio station automatically, press  or .




Store radio stations in memory




Note

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

Store stations automatically


- 1 Press and hold  to access the system menu.
- 2 Press  repeatedly until **[STORE >]** is displayed.
- 3 Press  to confirm.
 - ↳ The strongest stations of the selected band are saved in preset channels automatically.

Store stations manually

- 1 Press  repeatedly to select a band.
- 2 Tune to a radio station that you want to store.

- 3 Press and hold a numeric button for three seconds.
 - ↳ The station is saved in the selected channel.
- 4 Repeat steps 2 and 3 to store more radio stations.
 - To replace a radio station, store another one in its channel.

Tune to a preset station

- 1 Press  repeatedly to select a band.
- 2 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 is displayed.

Enable the RDS function








Note

- The RDS function is enabled by default.

- 1 Press and hold  to access the system menu.
- 2 Press  repeatedly until [RDS] is displayed.
- 3 Rotate  to select [RDS ON].
 - ↳ The RDS function is enabled.
 - To disable the RDS function, rotate  to select [RDS OFF].

Select a program type

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




- 1 Press and hold  to access the system menu.
- 2 Press  repeatedly until [PTY >] is displayed.
- 3 Press  to confirm.
- 4 Rotate  to select a program type, and then press  to confirm.

Item	Program type	Description
1	NEWS	News services
2	AFFAIRS	Politics and current affairs
3	INFO	Special information programs
4	SPORT	Sports
5	EDUCATE	Education and advanced training
6	DRAMA	Radio plays and literature
7	CULTURE	Culture, religion and society
8	SCIENCE	Science
9	VARIED	Entertainment programs
10	POP M	Pop music
11	ROCK M	Rock music
12	EASY M	Light music
13	LIGHT M	Light classical music
14	CLASSICS	Classical music
15	OTHER M	Special music programs
16	WEATHER	Weather
17	FINANCE	Finance
18	CHILDREN	Children's programs
19	SOCIAL	Social Affairs
20	RELIGION	Religion
21	PHONE IN	Phone In
22	TRAVEL	Travel
23	LEISURE	Leisure

Item	Program type	Description
24	JAZZ	Jazz Music
25	COUNTRY	Country Music
26	NATION M	National Music
27	OLDIES	Oldies Music
28	FOLK M	Folk Music
29	DOCUMENT	Documentary
30	TEST	Alarm Test
31	ALARM	Alarm

Use alternate frequencies




If the signal of an RDS station is poor, enable the AF (Alternate Frequency) function to search for another station that transmits the same program.

- 1 Press and hold  to access the system menu.
- 2 Press  repeatedly until **[RDS AF]** is displayed.
- 3 Rotate  to select a setting:
 - **[AF ON]**: Enable the AF function.
 - **[AF OFF]**: Disable the AF function.

Set the region for AF tuning




You can set the region for AF tuning:

[REG ON]	Only RDS stations in current region can be tuned to automatically.
[REG OFF]	All RDS stations can be tuned to automatically.

- 1 Press and hold  to access the system menu.
- 2 Press  repeatedly until **[RDS REG]** is displayed.
- 3 Rotate  to select a setting.


Receive traffic announcement

If you do not want to miss traffic announcement, enable the TA (Traffic Announcement) function.

- 1 Press and hold  to access the system menu.
- 2 Press  repeatedly until **[RDS TA]** is displayed.
- 3 Rotate  to select a setting:
 - **[TA ON]**: When a traffic announcement is on air, the system automatically switches to the tuner mode and begins to broadcast the traffic announcement. When the traffic announcement is over, the system returns to the previous mode.
 - **[TA OFF]**: Traffic announcement does not cut in.






Tip

- When a traffic announcement cuts in, you can press  to switch the system to the previous mode.

Synchronize the system clock

You can synchronize the system clock with an RDS station that transmits time signals.

- 1 Press and hold  to access the system menu.
- 2 Press  repeatedly until **[RDS CT]** is displayed.
- 3 Rotate  to select a setting:
 - **[CT ON]**: Synchronize the system clock with the RDS station.
 - **[CT OFF]**: Do not synchronize the system clock.



Tip

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

6 Use Bluetooth devices

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

Pair a device



Note

- Philips does not guarantee compatibility with all Bluetooth devices.
- Before pairing a device with this system, read its user manual for compatibility.

On your device, follow the steps below.

- 1 Enable it to search for other Bluetooth devices.
- 2 In the device list, select **CMD310**.
- 3 Enter the default password "0000".
 - ↳ If the pairing is successful, **[PAIRED]** is displayed.
 - To disconnect the device, disable the Bluetooth feature on it.

Play audio from a Bluetooth device

- 1 Pair the Bluetooth device with this system.
- 2 Press **SOURCE ZONE** repeatedly to switch the source to **[BT AUDIO]**.
 - ↳ Play starts automatically.
 - If play does not start, press **▶||6**.
 - To pause play, press **▶||6** again.
 - To skip to the previous or next track, press **◀◀ / ▶▶**.



Tip

- You can also control the play on the Bluetooth device.

Make a call



Note

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

Call a number

On your mobile, call a number:

↳ **[CALL---** is displayed.

Redial the last called number

- 1 Press **↶**.
 - ↳ **[REDIAL]** is displayed.
- 2 Press **📞** to confirm.
 - ↳ **[CALL---** 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 an call

To end an on-going call, press **↶**.

Transfer voice to mobile

Press and hold **📶** until **[TRANSFER]** is displayed.

- ↳ The loudspeakers are muted, and the voice comes from your mobile only.

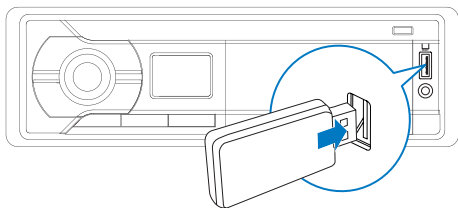
7 Play from a USB storage device


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



Note

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



- 1 Connect the USB storage device to the  socket.
- 2 Press SOURCE ZONE repeatedly until **[USB]** is displayed.
→ Play starts automatically.

If play does not start automatically,

- 1 Press **1▼ / ▲2** to select a folder.
- 2 Press **◀◀ / ▶▶** to select a file.
- 3 Press **▶||6** to start play.

Control play

During play, follow the instructions below to control play.

Buttons	Functions
▶ 6	Pause or resume play.
◀◀ / ▶▶	Skip to the previous or next track.
1▼ / ▲2	Press and hold to rewind a track or search forward fast within a track.
3 REP	Skip to the previous or next folder when one or more folders exist.
SHUF 4	Select a repeat mode. <ul style="list-style-type: none"> • [REPEAT TRACK]: repeat the current track • [REPEAT ALL]: repeat all tracks • [REPEAT FOLDER]: repeat all tracks in the current folder
	Enable or disable shuffle play. <ul style="list-style-type: none"> • [SHUF FOLDER]: play all tracks in the current folder randomly • [SHUF ALL]: play all tracks randomly • [SHUF OFF]: play tracks in sequence

8 Listen to an external device

You can use the system to amplify the audio input that is transferred from an external device, for example, MP3 player.

- 1 Press **SOURCE ZONE** repeatedly to switch the source to **[MP3-LINK]**.
- 2 Connect the MP3 link cable to
 - the **MP3-LINK** socket on the system, and
 - the audio output socket (usually the headphone socket) on the external device.
- 3 Play the external device.

9 Use the dock

An application **CarStudio** is available in the iTunes App Store for this car audio system. To enjoy full features, download the application to your iPhone or iPod touch.



Note

- If the CarStudio application is not installed, a dialog box prompts you to download it when your iPhone or iPod touch is docked and recognized.
- If the CarAudio application is installed, a dialog box prompts you to launch it when your iPhone or iPod touch is docked and recognized.

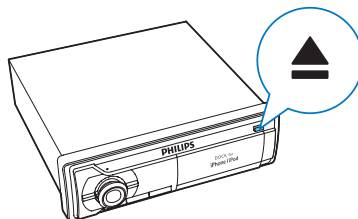
Compatible iPod/iPhone models

This car audio system supports the following iPod and iPhone models.

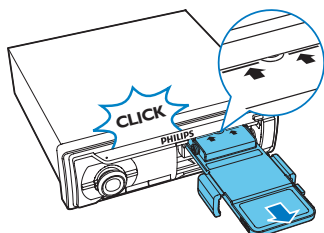
- iPhone 4S
- iPhone 4
- iPhone 3GS
- iPhone 3G
- iPod touch (3rd and 4th generations)

Prepare for docking

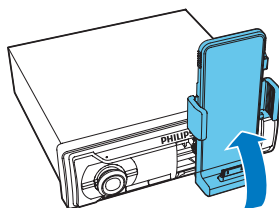
- 1 Press **▲** to eject the dock bracket.



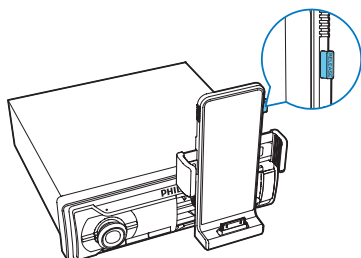
- 2 Pull out the dock bracket until you hear a "click".



- 3 Flip the dock bracket upwards.



- 4 Press and hold **RELEASE** to loosen the hooks.

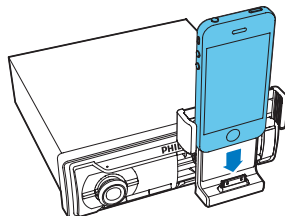


Load your iPhone or iPod touch

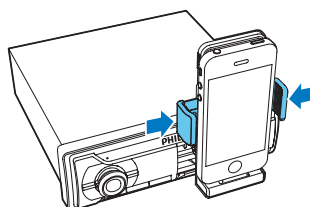
Note

- Before you load your iPhone or iPod touch, make sure that the dock bracket is in portrait position.

- 1 Connect your iPhone or iPod touch to the dock with its screen facing you.
 ↳ The system switches the source to **[iPHONE]** automatically. If not, press **SOURCE ZONE** repeatedly to switch the source.



- 2 Pinch the hooks to secure your iPhone or iPod touch.



Adjust the dock bracket



Caution

- When the dock bracket is in portrait position, do not turn it clockwise.
- When the dock bracket is in landscape position, do not turn it anti-clockwise.

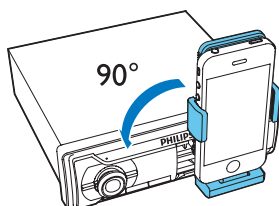
Switch to landscape mode



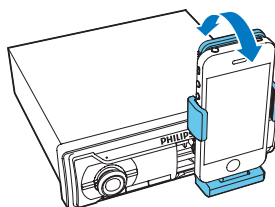
Note

- Before you turn the dock bracket anti-clockwise, make sure that you can see the indication line on its left side. If not, pull the dock bracket outwards.

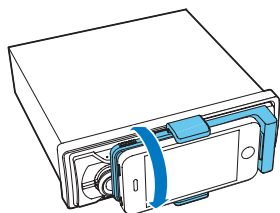
- 1 Turn the dock bracket anti-clockwise by 90 degrees.



- 2 Adjust the viewing angle.

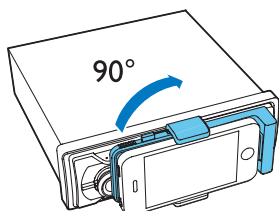


- 2 Adjust the viewing angle.



Switch to portrait mode

- 1 Turn the dock bracket clockwise by 90 degrees.



Pair your iPhone via Bluetooth

Note

- To use the hands-free function, pair your iPhone with the car audio system via Bluetooth first.
- Make sure that the Bluetooth feature is enabled on your iPhone.

For an iPhone using iOS 4.X or under

- Manually complete the pairing. (Refer to "Use Bluetooth devices" > "Pair a device")

For an iPhone using iOS 5.X

- For the first time, manually complete the pairing. Afterwards, the pairing is automatically complete after your iPhone is docked and recognized.

Enjoy audio through the dock

If the **CarStudio** application is not installed on your iPhone or iPod touch, follow the steps below.

- 1 Turn on the car audio system.
- 2 Press **SOURCE** repeatedly to switch the source to **[iPHONE]**.
- 3 Play an audio file or radio station on your iPhone or iPod touch.

Use the CarStudio application



Note

- To enjoy the latest features, update the application on your iPhone or iPod touch when an update message prompts.
- After update, the interface and features may be different from the description in this section. Follow the actual operations.
- To switch between portrait mode and landscape mode smoothly, make sure that the auto-orientation feature on your iPhone or iPod touch is set to **[Portrait Orientation Unlocked]** (Portrait Orientation Unlocked).

Portrait mode

In portrait mode, swipe the screen to use one of the following features.

- Display available time and weather information.
- Listen to the playlist on the iPhone or iPod touch.
- Listen to radio.
- Change settings.
- Listen to audio that is transferred through the **MP3-LINK** socket.

Landscape mode

In landscape mode, tap the icons to access the following features.

- Listen to the playlist on the iPhone or iPod touch.
- Listen to radio.
- Listen to audio that is transferred through the **MP3-LINK** socket.
- Use the phone call.
- Change sound settings.

Charge your iPhone or iPod touch

Once the iPhone or iPod touch is docked and recognized, the charging starts.

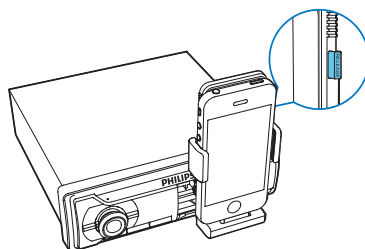
Undock your iPhone or iPod touch



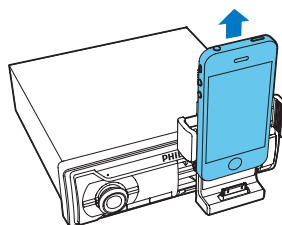
Note

- Before you undock your iPhone or iPod touch, make sure that the dock bracket is in portrait position.

- 1 Press and hold **RELEASE** to loosen the hooks.



- 2 Pull out your iPhone or iPod touch.



Tip

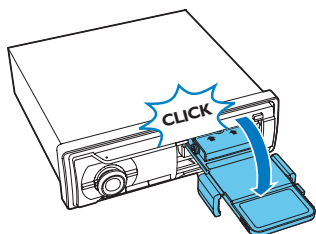
- For the safety of your property, undock your iPhone or iPod touch before leaving your car.

Store the dock bracket

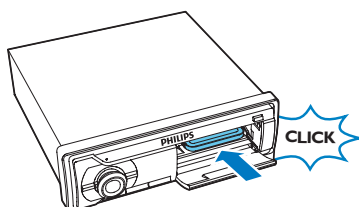
Note

- Before storage, make sure that you have unloaded your iPhone or iPod touch and pinched the hooks.

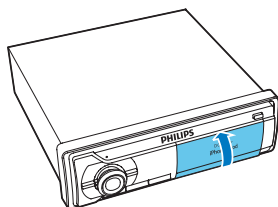
- Flip the dock bracket downwards until you hear a "click".
 ↳ You can see the indication line on top of the dock panel. If not, pull the dock panel outwards until you see it.



- Push the dock panel inwards until you hear a "click".



- Flip up the cover.



10 Adjust sound

The following operations are applicable to all compatible media.

Adjust the volume level


Rotate  clockwise or anti-clockwise.

Mute sound

Press .


- To restore sound, press  again.

Use the DBB sound effect

Press and hold  until one of the following settings is displayed.



- [DBB ON]:** Dynamic bass boost (DBB) is enabled.
- [DBB OFF]:** DBB is disabled.

Enable the max sound


Press  repeatedly to select one of the following settings.

- [MAX ON]:** Use the maximum sound.
- [MAX OFF]:** Return to the customized sound.

Select a listening zone




- Press and hold  until one of the following settings 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
- Rotate  to select a setting.

Enable the full-range sound




Press  repeatedly to select one of the following settings.

- **[FULL ON]:** Enable the full-range sound
- **[FULL OFF]:** Use the preset equalizer that you select




Select a preset sound equalizer

- 1 Press and hold  until **[SUBW]** is displayed.
- 2 Press  repeatedly until one of the following preset sound equalizer settings is displayed.
 - **[FLAT]** (flat)
 - **[POP]** (pop)
 - **[ROCK]** (rock)
 - **[JAZZ]** (jazz)
 - **[CLASSIC]** (classic)
 - **[TECHNO]** (techno)
 - **[OPTIMAL]** (optimal)
 - **[USER]** (user settings)
- 3 Rotate  to select the sound equalizer that you want.

Other sound settings

- 1 Press and hold  until **[SUBW]** is displayed.
- 2 Press  repeatedly to select a setting.
 - **[SUBW]:** Enable or mute the subwoofer
 - **[BALANCE]:** Balance of sound from left and right speakers (12L to 12R)
 - **[FADER]:** Fade of sound from front and rear speakers (12R to 12F)
 - **[BASS]:** Bass level (-7 to +7)
 - **[TREBLE]:** Treble level (-7 to +7)
- 3 Rotate  clockwise or anti-clockwise to change the setting.

11 Adjust system settings

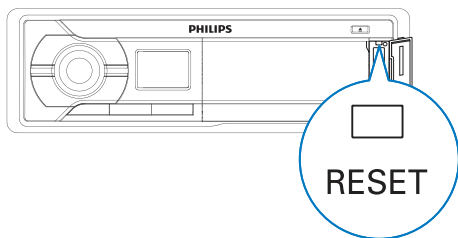
- 1 Press and hold  to access the system menu.
- 2 Press  repeatedly until one of the following settings is displayed.
 - **[BEEP]**, **[BKO]**, **[DIMMER]**, or **[DEMO]**
- 3 Rotate  to change the setting.

[BEEP]	[BEEP ON]	Enable the beep sound of buttons.
	[BEEP OFF]	Disable the beep sound of buttons.
[BKO]	[BKO 10S]	Turn off the screen automatically 10 seconds after the last operation.
	[BKO 20S]	Turn off the screen automatically 20 seconds after the last operation.
	[BKO OFF]	Never turn off the screen automatically.
[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 120 seconds.
	[DEMO OFF]	Disable the demo mode.

12 Additional information

Reset the system

You can reset the system to factory default settings.



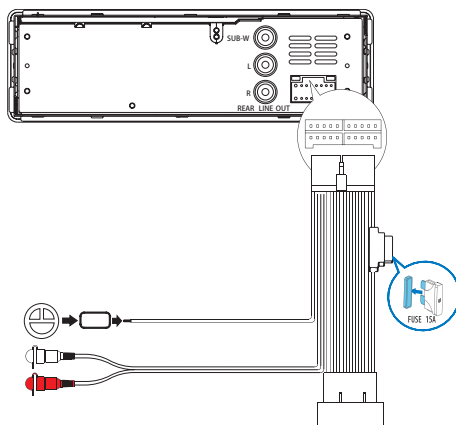
- 1 Open the protective cover for the USB socket, **MP3-LINK** socket, and **RESET** button.
- 2 Press **RESET** with the tip of a ball-point pen or toothpick.
 ↳ The system is reset.

Replace the fuse

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

- 1 Detach the system 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).



Note

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

13 Product information



Note

- Product information is subject to change without prior notice.

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 x 4 channels
Continuous power output	22 W x 4 RMS (4 Ω 10% T.H.D.)
Pre-Amp output voltage	2.5 V
Aux-in level	500 mV
Dimensions (W x H x D)	188 x 58 x 199.5 mm
Weight	1.32 kg

Radio

Frequency range - FM	87.5-108.0 MHz (100 kHz per step in auto search and 50 kHz per step in manual search)
Frequency range - AM(MW)	522-1620 kHz (9 kHz) 530-1710 kHz (10 kHz)
Usable sensitivity - FM	8 μ V
Usable sensitivity - AM(MW) (S/N = 20 dB)	30 μ V

Bluetooth

Output power	0 dBm (Class 2)
Frequency band	2.4000 GHz - 2.4835 GHz ISM Band
Range	3 meters(free space)
Standard	Bluetooth 2.0 specification

Compatible USB storage devices:

- USB flash memory (USB 2.0 or USB1.1)
- USB flash players (USB 2.0 or USB1.1)

Supported formats:

- USB or memory file format: FAT16, FAT32
- WMA V4,V7,V8,V9 (L1, L2)
- Sampling frequencies:
 - MP3: 32 kHz, 44.1 kHz, 48kHz
 - WMA: 44.1 kHz, 48 kHz
- Bitrates:
 - MP3: 8-320 kbps and variable bitrates
 - WMA: 64-192 kbps and variable bitrates
- Directory nesting up to a maximum of 8 levels
- Number of albums/folders: maximum 99
- Number of tracks/titles/files: maximum 999
- ID3 tag v2.0 or later

Unsupported formats:

- Empty albums: An empty album is an album that does not contain MP3/WMA files, and is not shown on the display.
- Unsupported file formats are skipped. For example, Word documents (.doc) or MP3 files with extension .dlf are ignored and not played.
- AAC, WAV, PCM audio files
- DRM protected WMA files (.wav, .m4a, .m4p, .mp4, .aac)
- WMA files in Lossless format

14 Troubleshooting



Warning

- Never remove the casing of this apparatus.

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/welcome). When you contact Philips, make sure that the product is nearby and the model number and serial number are available.

General

No power or no sound.

- The power supply from car battery is cut off, or the car battery runs out of energy. Power the system with car battery.
- 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 the **RESET** button.
- Make sure that the current track is in a compatible format.

Noise in broadcasts.

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

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 storage device.

GPS signal reception of the iPhone or iPod touch is poor.

- Remove the iPhone or iPod touch from the dock, and place it in another location for better signal reception.

About Bluetooth device

Cannot pair the Bluetooth enabled device with the car audio 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 for how to enable the function.

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

- The microphone is not correctly positioned. Adjust the position of the microphone. For example, stick the microphone onto the dashboard where close to the driver.
- The Bluetooth reception is poor. Move the device closer to the car audio system or remove any obstacle between the device and the system.

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

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

The paired mobile phone connects and disconnects constantly.

- The Bluetooth reception is poor. Move the mobile phone closer to the car audio 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 Glossary

M

MP3

A file format with a sound data compression system. MP3 is the abbreviation of Motion Picture Experts Group 1 (or MPEG-1) Audio Layer 3.

W

WMA (Windows Media Audio)

An audio format owned by Microsoft, is a part of Microsoft Windows Media technology. Includes Microsoft Digital Rights Management tools, Windows Media Video encoding technology, and Windows Media Audio encoding technology.



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