

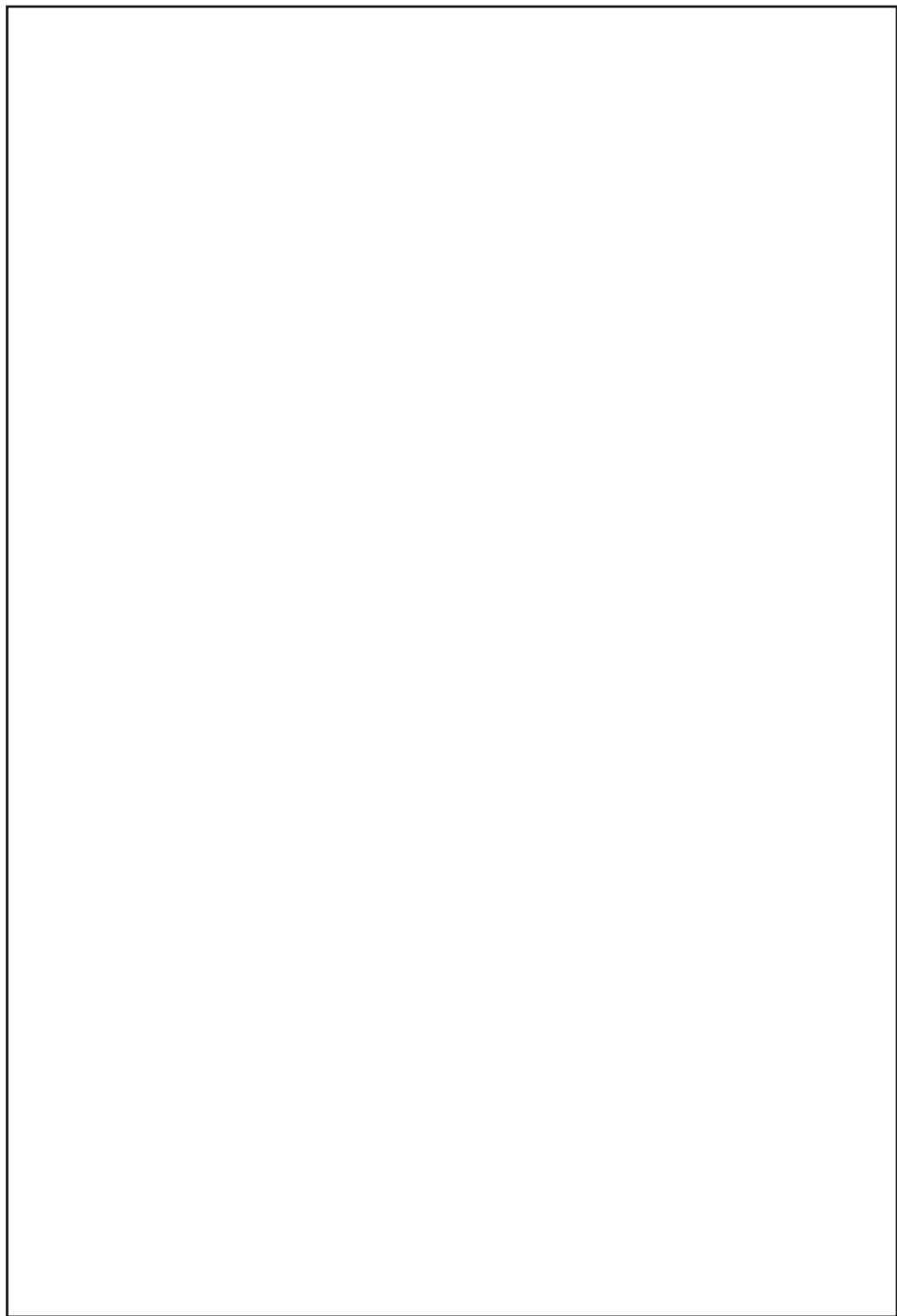
HC300

Wireless FM Stereo Headphone

*Let's make things better.*



**PHILIPS**



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## Congratulations!

You have just bought the most sophisticated FM wireless stereo sound system. This system uses the latest FM wireless technology, which gives you complete freedom of movement while enjoying your favorite music and movies. No more inconvenience from cables or headphone wires! To ensure you get the best performance from your FM wireless stereo sound system please read this manual carefully.

## IMPORTANT

**Read these instructions. All the safety and operating instructions should be read before using the wireless headphone system.**

**Check if the voltage indicated on the type plate of the adapter corresponds to the local mains voltage before connecting to the mains power supply.**

**Remove the batteries from the headphone's battery compartment and disconnect the adapter from the mains if the system is not in use for a long period.**

**Prevent fire or shock hazard: do not expose this equipment to humidity, rain, sand or excessive heat caused by heating equipment or direct sunlight.**

**Radio equipment for wireless audio applications is not protected against disturbance from other radio services.**

## IMPORTANT

**Before using the FM headphone for the first time, please ensure that the batteries are fully charged for about 16 hours. This will guarantee a longer operating lifetime of the batteries.**

## Benefits of Philips latest RF/FM wireless technology

### Wireless transmission

The FM transmitter transmits the stereo audio signal from your audio or video source to your FM headphone without wires.

### Wide transmission range

Your FM headphone can receive signals up to 100 meters away.

### High-frequency radio system

The FM headphone set uses a high radio frequency as the signal carrier, ensuring a very clear, sharp reception.

### Automatic power on/off indicator

The FM transmitter automatically switches on and starts transmitting when audio signals are detected at the audio input (red LED). When no audio signals are detected the FM transmitter automatically switches off after a few minutes.

### Easy transmission

The FM headphone is able to receive signals from the transmitter, even through barriers such as doors, walls and windows.

## Multiple headphones with one transmitter

An additional number of headphones and/or wireless speakers can be used with a single transmitter if they:

- operate in the 433 MHz band
- can detect a 19 kHz pilot tone.

Please consult the appliance's electrical specification sheets for confirmation on compatibility.

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## Kit contents

This FM headphone system consists of the following accessories:

- 1 x SBC HC332 FM transmitter
- 1 x SBC HC305 FM headphone
- 1 x SBC CS030/00 12Volt / 200mA AC/DC adapter (for UK: SBC CS030/05 12 Volt/ 200 mA AC/DC adapter)
- 2 x non-rechargeable batteries LR03/AAA (ZnCl)
- 1 x 3.5 mm plug to 6.3 mm stereo adapter plug
- 1 x antenna tube

## Transmitter (figure 1)

- 1 Power indicator** – lights up when audio signals are detected at the audio input.
- 2 DC power** – connect to the 12 Volt/ 200 mA AC/DC adapter.
- 3 3.5 mm stereo headphone audio input** – the audio cable connects your FM transmitter to an audio source.
- 4 Channel switch** – select one of 2 channels for best reception. We advise you to select channel 1 as a first option.
- 5 Controls plate**
  - Headphone (figure 2)**
  - 6 Power On/Off** – slide the switch to the on or off position to switch the headphone on/off.
  - 7 Battery compartment** – open the lid, take out the batteries and replace them when empty.
  - 8 Volume** – adjust volume to your desired listening level.
  - 9 Tuning** – turn the tuning wheel until the signal is at its clearest.
- 10 Power indication** – lights up when in use.

# Installation

## Transmitter power supply

### IMPORTANT

**Use only Philips SBC CS030/00 12 Volt/200 mA AC/DC adapter. (For UK, use only Philips SBC CS030/05)**

- 1 Make sure the adapter's rated voltage corresponds to the mains socket voltage.
- 2 Connect the DC connector of the AC/DC adapter to the 12 Volt DC power input connector located at the rear of the transmitter.
- 3 Connect the 12 Volt/200 mA AC/DC adapter to the mains socket.
  - Always disconnect the AC/DC adapter if the transmitter is not to be used for a long period of time.
- 4 Insert the antenna tube in the hole, located on the top of the transmitter. Ensure that the wire which is hanging out of that hole, is guided in the antenna tube.
  - Installing the antenna tube correctly, will improve the transmission range.

## Headphone power supply

### IMPORTANT

**Use only rechargeable LR03/AAA NiMH batteries (preferably Philips). Do not use NiCd batteries or alkaline batteries as these may damage your FM wireless system!**

- 1 Check if the power button of the FM headphone is in the on position.
- 2 Ensure the batteries are put in the battery compartment correctly according to the engraved polarity symbols.
  - Always remove the batteries if the headphone is not to be used for a long period of time.

**Batteries contain chemical substances, so they should be disposed of properly.**

**Hearing Safety!** Continuous use at a high volume may permanently damage your hearing.

### Environmental Information

**All redundant packing material has been omitted. We have done our best to make the packaging easily separable into two materials: cardboard and polyethylene**

**Your unit consists of materials which can be recycled if disassembled by a specialized company. Please observe the local regulations regarding the disposal of packing materials, exhausted batteries and old equipment.**

## Headphone battery replacement (figure 3)

### IMPORTANT

*Use only rechargeable LR03/AAA NiMH batteries (preferably Philips).*

*Do not use NiCd batteries or alkaline batteries as these may damage your FM wireless system!*

- 1 Open the headphone's battery compartment.
- 2 Take out the batteries and dispose of them properly.
- 3 Insert new batteries. Only use LR03/AAA NiMH batteries (preferably Philips).
- 4 Make sure the batteries are correctly inserted as indicated by the engraved symbols in the battery compartment.
- 5 Close the battery compartment.

### IMPORTANT

*Before using the FM headphone for the first time, please ensure that the batteries are fully charged for about 16 hours. This will guarantee a longer operating lifetime of the batteries.*

## Connecting the FM transmitter to a headphone output of an audio source (figure 4)

- 1 Connect the 3.5mm stereo plug of the stereo audio cable to the headphone output of an audio source, such as TV, HiFi or PC.
  - In case your audio source has a 6.3mm headphone output, use the supplied 3.5mm to 6.3 mm stereo adapter plug.

- 2 Switch on your audio source and carefully increase the volume of the audio source. The red power indication LED of the transmitter lights up if receiving an audio signal.
- 3 Switch on the headphone. You may hear a hissing sound through the headphone if the headphone is not yet properly tuned to the transmitter.
- 4 To tune, turn the tuning wheel until the signal is at its clearest and the tuning indicator will light up.
- 5 Adjust the volume to the desired level with the headphone volume control.

### Basic operation

When the FM transmitter is connected to a headphone output of an audio source.

- 1 Switch on your audio source and carefully increase the volume of the audio source. The red power indication LED of the transmitter lights up if receiving an audio signal.
- 2 Switch on the headphone. You may hear a hissing sound through the headphone if the headphone is not yet properly tuned to the transmitter.
- 3 To tune, turn the tuning wheel until the signal is at its clearest and the tuning indicator will light up.
- 4 Adjust the volume to the desired level with the headphone volume control.

# Troubleshooting

*If a fault occurs, first check the points listed below before taking the set for repair.*

*If you are unable to remedy a problem by following these hints, consult your dealer or service centre.*

**WARNING:** *Under no circumstances should you try to repair the set yourself, as this would invalidate the warranty.*

<b>Problem</b>	<b>Remedy</b>
<b>No sound</b>	<ul style="list-style-type: none"><li>– Check if the AC/DC adapter is fully inserted into the AC outlet and that its DC connector is properly inserted into the 12 Volt DC input connector located at the rear of the transmitter.</li><li>– Check if the headphone's on/off switch is in the on position.</li><li>– Headphone batteries running low. Open the headphone's battery compartment. Take out the batteries and replace them with fresh batteries. (See Headphone power supply)</li><li>– Check if the audio source is switched on and tuned to a channel with audio.</li><li>– Volume not adjusted. Adjust the volume on the audio source/ headphone to a higher level.</li><li>– Adjust the headphone's tuning frequency. Turn the tuning wheel until the signal is at its clearest.</li><li>– Make use of the HC332 transmitter. Some transmitters already built into other equipment may not be compatible with the HC305 headphone because of the advanced technologies used in the HC305 headphone.</li></ul>
<b>Maintenance</b>	<ul style="list-style-type: none"><li>– If the headphone will not be used for a long time, please remove the batteries to prevent leakage and corrosion.</li><li>– Do not leave the headphone near heat sources. Do not expose to direct sunlight, excessive dust, moisture, rain or any kind of mechanical shock.</li><li>– Do not use alcohol, thinner or petroleum-based substances to clean the headphone or transmitter. Use a slightly dampened chamois cloth to clean the housing.</li><li>– Do not use cleaning agents containing alcohol, spirits, ammonia or abrasives as these may harm the housing.</li></ul>



<b>System:</b>	Radio Frequency (RF)
<b>Carrier Frequency:</b> (Transmitter HC332)	Channel 1: 433.5 MHz Channel 2: 434.5 MHz
<b>Carrier Frequency:</b> (Headphone HC305)	433.0 to 435.0 MHz (Manual tuning)
<b>Modulation:</b>	Frequency Modulation (FM)
<b>Radiated Output Power:</b>	<10m Watt
<b>Effective Transmission Range:</b>	up to 100 meters, omni directional (360°)
<b>Input level:</b>	500 mVrms (1 kHz sine wave)
<b>Power supply – transmitter:</b>	12Volt / 200 mA DC, centre positive
<b>Power supply – headphone:</b>	2 x LR03 (AAA) batteries (NiMH)
<b>Frequency range (Headphone):</b>	10 – 18,000 Hz
<b>Signal/Noise ratio:</b>	> 60 dB (1 kHz sine wave, A-weighted)
<b>Distortion:</b>	< 0.5% THD
<b>Channel separation:</b>	> 30 dB

### European Regulations

*This product has been designed, tested and manufactured according to the European R&TTE Directive 1999/5/EC.*

*Following this Directive, this product can be brought into service in the following states:*

#### R&TTE Directive 1999/5/EC

<b>B</b>	<b>X</b>	<b>DK</b>	<b>X</b>	<b>E</b>	<b>✓</b>	<b>GR</b>	<b>✓</b>	<b>F</b>	<b>X</b>
<b>IRL</b>	<b>X</b>	<b>I</b>	<b>✓</b>	<b>L</b>	<b>X</b>	<b>NL</b>	<b>X</b>	<b>A</b>	<b>X</b>
<b>P</b>	<b>X</b>	<b>SU</b>	<b>X</b>	<b>S</b>	<b>X</b>	<b>UK</b>	<b>X</b>	<b>N</b>	<b>X</b>
<b>D</b>	<b>X</b>	<b>CH</b>	<b>X</b>						

*This product complies with class 3 requirements as set down in ETS 300 445.*

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**<http://www.philips.com>**

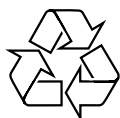
English

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SBC HC 300



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