

Home Cinema Speaker Systems

FB735 FB755

FB965 FB975



*Let's make things better.*



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**FB735**



**FB755**



**FB965**



**FB975**



## Introduction

Congratulations!!! You are now a proud owner of PHILIPS HOME CINEMA SPEAKER SYSTEM which have been developed to produce superb sound for many years of listening pleasure.

Please read this manual carefully before connecting your speakers. You will find a number of useful tips for getting the best sound performance out of your home cinema surround sound speaker system.

## Environmental notes

- All redundant packaging material has been omitted. The packaging is easily separable into three mono-materials:
  - cardboard (box)
  - expandable polystyrene (buffer)
  - polyethylene (bags, protective foam sheet)
- Your set consists of materials which can be recycled if disassembled by a specialized company.
- Please observe the local regulations regarding the disposal of packing materials and old equipment.

## Other Home Cinema Sound Products

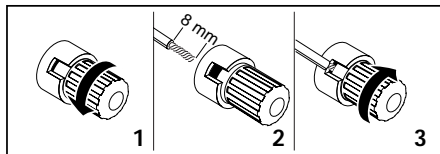
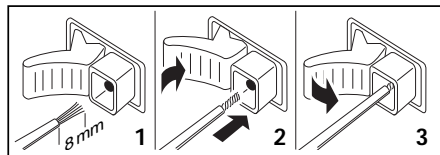
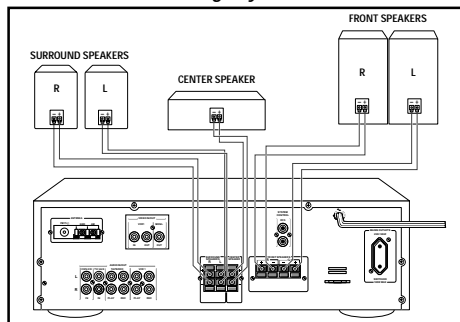
These speakers have been designed together with Philips Home Cinema Receiver range (FR735/FR755/FR960/FR970) in order to optimise performance.

For more impressive bass performance these systems can be extended with a 50W (FB201\*) or 100W (FB301\*) subwoofer.

\*not available in all countries

## Connecting your loudspeakers

**Important! Always switch off your amplifier/receiver before making any connections!**



## Connectors on the speakers

- At the back of the speakers you will find two click fit or screw connectors (, a black one marked ⊖ and a red one (for the front speakers), a blue one (for the center speaker) or a grey one (for the surround speakers) marked ⊕.

- 100 W Front/Surround speakers have gold plated screw terminals.
- One of the speaker wires is usually marked with a color or a sleeve so that you can distinguish between them.
- In order to prevent phase problems make a habit of connecting the marked (colored) wire to the colored + speaker terminal and the unmarked wire to the black - speaker terminal.

## Connectors on the amplifier/receiver

The speaker connections on the amplifier or receiver may be either screw connectors or click-fit connectors.

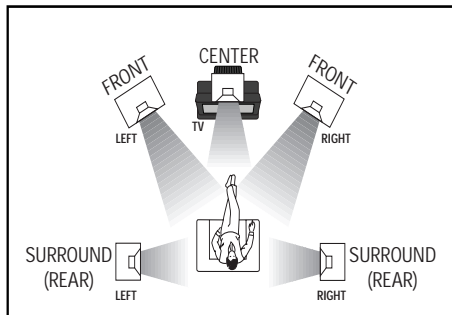
- At the rear of the amplifier/receiver you will find a red colored or + terminal and a black or - terminal for each speaker.
- Connect the marked or sleeved speaker wire to the red or + terminal, and the unmarked wire to the black or - terminal of the amplifier/receiver.
- After connecting the speakers, do not forget to adjust the relative sound level between the speakers, see chapter "Adjusting the relative speaker balance".

Note:

- Since Left/Right Front speakers are identical to the Left/Right Surround speakers of the FB965/FB975 packages, all connectors are same code (Black/Red), speaker terminal and wire for surrounds are still Grey/Black coded.

## POSITIONING THE SPEAKERS

### Positioning the speakers



#### General hints for positioning

- For your convenience each speaker has color-coded speaker terminals so you can easily distinguish the different types of speakers.  
red → front speakers;  
blue → center speakers;  
gray → surround speakers. (FB 735 only)
- Placing the speakers behind curtains, furniture etc. will reduce the treble response, thus reducing the stereo effect considerably. The listener should position the Front speakers so that they are in the line of sight from his listening area.
- Each room has different acoustic characteristics and the positioning possibilities are often limited. You can find the best position for your speakers by experimenting. In general, the speakers should be arranged as symmetrically as possible in the room.

#### Positioning the front speakers

- The front speakers should be arranged so that, viewed from the listener's position, the speaker connected to the "Left" terminals of the amplifier/receiver is on the left and the speaker connected to the "Right" terminals is on the right in front of the listener in the room. This can be checked with the balance control and/or test tone set-up function on the amplifier/receiver.
- The best stereo effect is obtained when the 2 front speakers and the listener build an equilateral triangle.
- The best height for the front speakers is when the high tone speakers (tweeter) are at ear height (while seated).

#### Positioning the center speaker

- The center speaker should be placed in the center between both front speakers and should always be placed in line with the television (e.g. underneath or on top of the TV).
- Position the center speaker so that the tweeter is directed at the listener's ear while seated. You can do so by adjusting the angle that the center speaker is facing (using the positioning pin).

#### Positioning the surround speakers

- The surround speaker connected to the "Surround Left" terminal of the amplifier/receiver should be on the left and the speaker connect to the "Surround Right" terminal on the right of the listener in the room. This can be checked with the balance control on the amplifier/receiver.
- For best results, we suggest that the surround speakers be placed in line with the listening area at a height of 6 or 7 feet. You may also place them behind the listening area.

## ADJUSTMENTS

### Adjusting the relative speaker balance

After installing your speakers, you will have to find a good sound balance between the Surround, the Center and the Front speakers.

- On the amplifier/receiver, switch on the SURROUND mode.
- In the instruction booklet of the amplifier/receiver you will find a section describing how to adjust the sound level of the center and the surround speakers.
- For the surround speakers, it may be possible to adjust the delay time as well. We suggest that you experiment with the delay time to best match the acoustic characteristics of your unique listening environment.
- Adjust the sound level of the surround and center speakers, and also the delay time for the surround speakers to your personal taste. The settings are kept by the amplifier or receiver.

**WARNING**

*Under no circumstances should you try to repair the speaker yourself, as this would invalidate the guarantee.*

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

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

**No sound**

- VOLUME is not turned up.
- *Turn up the VOLUME.*
- SPEAKERS A/B switches on the amplifier/receiver are in positions off.
- *Press the relevant SPEAKERS A or B switch.*
- Headphones are connected.
- *Disconnect headphones.*
- Speakers are not (or wrongly) connected.
- *Connect the speakers securely.*

**No sound on left of right side**

- BALANCE control on the amplifier/receiver is not in the middle position.
- *Set the BALANCE control to the middle position.*
- One speaker is wrongly connected or the speaker cable damaged.
- *Connect the speaker properly or replace the cable.*

**Reversed left and right sound**

- Speakers are wrongly connected.
- *Connect speakers properly, L to left, R to right; check with BALANCE control.*

**No sound at the surround or center speaker**

- SURROUND mode is not switched on.
- *On the amplifier or receiver, switch on the SURROUND mode.*

- Surround and/or Center speakers are not (properly) connected.
- *Connect the speakers properly.*
- Only one Surround speaker is connected.
- *Always connect both Surround speakers.*
- One speaker is wrongly connected or the speaker cable damaged.
- *Connect the speaker properly or replace the cable.*

**Poor bass sound**

- Speakers are not in phase.
- *Connect speakers properly, + to + pole (red marked or sleeved cable): - to - pole (unmarked cable).*

**Bad sound**

- Badly matching SURROUND setting for the given type of music.
- *On the amplifier or receiver, choose a matching SURROUND setting for the given type of music.*

**Surround sound level is too low or too high**

- The sound level of the Surround sound is not properly adjusted.
- *On the amplifier or receiver, adjust the level and the delay time of the Surround sound.*

**Center sound level is too low or too high**

- The sound level of the Center channel is not properly adjusted.
- *On the amplifier or receiver, adjust the level of the Center channel.*

*The type plate can be found on the bottom or the back of the speaker. This product complies with the radio interference requirements of the European Community.*

**Power handling**

Each amplifier or receiver used at high power over a long period of time can produce distortion which may seriously damage your speakers.

Your ears will warn you, since the speakers will indicate overloading by giving distortion.

If this happens reduce the volume and tone controls to a level where the sound is acceptable again.

When using microphones, avoid microphone feedback which occurs when microphones may pick up sound from the speakers, resulting in a dangerous howling sound.

Keep the microphones away from the speakers or reduce the volume.

*Note:*

- *Speakers are most often damaged when they are overdriven by under-powered amplifiers. The clipping of the amplifiers will damage the tweeters.*

**Technical Data**
*Subject to change without notice*
**Center Speaker**

Impedance	6 Ω
Frequency Range	75 – 20,000 Hz
Power Handling	
Normal	50 Watts
Maximum	100 Watts
Sensitivity	89 dB
Tweeter	2"
Loudspeaker	2 x 4"
Crossover Frequency	4500 Hz
Connectors	Click Fit (Blue/Black)
Material	High Impact Polystyrene
Wires	3 Meter AWG22 (Blue/Black)
Dimensions (h x w x d)	131 x 435 x 122 mm
Volume (internal/External)	4.5/5.1 liter
Weight	1.8 kg

**Front Speakers**

Impedance	6 Ω
Frequency Range	40 – 20,000 Hz
Power Handling	
Normal	50 Watts
Maximum	100 Watts
Sensitivity	89 dB
Tweeter	2"
Loudspeaker	5.25"
Passive Radiator	6.5"
Crossover Frequency	4500 Hz
Connectors	Click Fit (Red/Black)
Material	High Impact Polystyrene
Wires	4 Meter AWG22 (Red/Black)
Dimensions (h x w x d)	421 x 219 x 191 mm
Volume (Internal/External)	10.5/11.5 liter
Weight	2.5 kg

**Surround Speakers**

Impedance	6 Ω
Frequency Range	150 – 20,000 Hz
Power Handling	
Normal	25 Watts
Maximum	50 Watts
Sensitivity	89 dB
Loudspeaker	4"
Connectors	Click Fit (Grey/Black)
Material	High Impact Polystyrene
Wires	12 Meter AWG22 (White/Black)
Dimensions (h x w x d)	179 x 181 x 92 mm
Volume (internal/External)	1.2/1.5 liter
Weight	0.7 kg

**Technical Data**
*Subject to change without notice*
**Center Speaker**

Impedance	6 Ω
Frequency Range	75 – 20,000 Hz
Power Handling	
Normal	50 Watts
Maximum	100 Watts
Sensitivity	89 dB
Tweeter	2"
Loudspeaker	2 x 4"
Crossover Frequency	4500 Hz
Connectors	Click Fit (Blue/Black)
Material	High Impact Polystyrene
Wires	3 Meter AWG22 (Blue/Black)
Dimensions (h x w x d)	131 x 435 x 122 mm
Volume (internal/External)	4.5/5.1 liter
Weight	1.8 kg

**Front and Surround Speakers (4)**

Impedance	6 Ω
Frequency Range	40 – 20,000 Hz
Power Handling	
Normal	50 Watts
Maximum	100 Watts
Sensitivity	89 dB
Tweeter	2"
Loudspeaker	5.25"
Passive Radiator	6.5"
Crossover Frequency	4500 Hz
Connectors	Click Fit (Red/Black)
Material	High Impact Polystyrene
Wires	4 Meter AWG22 (Red/Black)
	12 Meter AWG22 (White/Black)
Dimensions (h x w x d)	421 x 219 x 191 mm
Volume (Internal/External)	10.5/11.5 liter
Weight	2.5 kg

**Technical Data**
*Subject to change without notice*
**Center Speaker**

Impedance	6 Ω
Frequency Range	75 – 20,000 Hz
Power Handling	
Normal	100 Watts
Maximum	200 Watts
Sensitivity	89 dB
Tweeter	2.5" Dome
Loudspeaker	2 x 5"
Crossover Frequency	4500 Hz
Connectors	Click Fit (Blue/Black)
Material	High Impact Polystyrene
Wires	3 Meter AWG22 (Blue/Black)
Dimensions (h x w x d)	149 x 435 x 159 mm
Volume (internal/External)	5.2/6 liter
Weight	2.5 kg

**Front Speakers**

Impedance	6 Ω
Frequency Range	40 – 20,000 Hz
Power Handling	
Normal	100 Watts
Maximum	200 Watts
Sensitivity	89 dB
Tweeter	2.5" Dome
Loudspeaker	5.25"
Passive Radiator	7.5" w00x TM
Crossover Frequency	4500 Hz
Connectors	Screw, Gold Plated (Red/Black)
Material	Wood + High Impact Polystyrene Front
Wires	4 Meter AWG18 (Red/Black)
Dimensions (h x w x d)	530 x 276 x 212 mm
Volume (Internal/External)	7.9/20 liter
Weight	5.4 kg

**Surround Speakers**

Impedance	6 Ω
Frequency Range	40 – 20,000 Hz
Power Handling	
Normal	50 Watts
Maximum	100 Watts
Sensitivity	89 dB
Tweeter	2"
Loudspeaker	5.25"
Passive Radiator	6.5"
Crossover Frequency	4500 Hz
Connectors	Click Fit (Red/Black)
Material	High Impact Polystyrene
Wires	12 Meter AWG22 (White/Black)
Dimensions (h x w x d)	421 x 219 x 191 mm
Volume (internal/External)	8.5/9.5 liter
Weight	2.5 kg

**Technical Data**
*Subject to change without notice*
**Center Speaker**

Impedance	6 Ω
Frequency Range	75 – 20,000 Hz
Power Handling	
Normal	100 Watts
Maximum	200 Watts
Sensitivity	89 dB
Tweeter	2.5" Dome
Loudspeaker	2 x 5"
Crossover Frequency	4500 Hz
Connectors	Click Fit (Blue/Black)
Material	High Impact Polystyrene
Wires	3 Meter AWG22 (Blue/Black)
Dimensions (h x w x d)	149 x 435 x 159 mm
Volume (internal/External)	5.2/6 liter
Weight	2.5 kg

**Front and Surround Speakers (4)**

Impedance	6 Ω
Frequency Range	40 – 20,000 Hz
Power Handling	
Normal	100 Watts
Maximum	200 Watts
Sensitivity	89 dB
Tweeter	2.5" Dome
Loudspeaker	5.25"
Passive Radiator	7.5" w00x TM
Crossover Frequency	4500 Hz
Connectors	Screw, Gold Plated (Red/Black)
Material	Wood + High Impact Polystyrene Front
Wires	4 Meter AWG18 (Transparent/Black)
	12 Meter AWG18 (Transparent/Black)
Dimensions (h x w x d)	530 x 276 x 212 mm
Volume (Internal/External)	7.9/20 liter
Weight	5.4 kg