

PHILIPS

FB651 - FB671 - FB691 - FB696 Loudspeakers



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INTRODUCTION

We would like to thank you for purchasing these quality speakers from the Philips 600 range. These speakers 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 out of these high-quality speakers.

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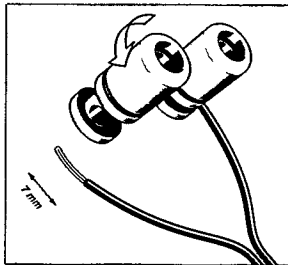
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CONNECTING YOUR LOUDSPEAKERS

Note!
 Check that your amplifier/receiver is switched off.

Speaker cable

- Preferably use special speaker cable with a diameter of at least 0.75 mm².
- One of the two wires should be marked so that you can distinguish between them.
- Strip off the insulation from the end of each of the two wires; approx. 7 mm.

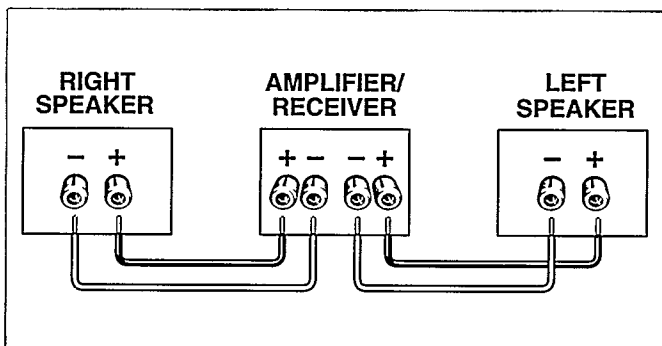


Amplifier/receiver

- At the rear of the amplifier/receiver you will find a red or (+) terminal and a black or (-) terminal for each speaker (Left/Right).
- Connect the marked wire to the red or (+) terminal, and the unmarked wire to the black or (-) terminal of the amplifier/receiver.

Speakers

- At the rear of the speakers you will find the screw connectors, marked (+) and (-).
- Connect the marked wire to the (+) terminal, and the unmarked wire to the (-) terminal of the speaker.



POWER HANDLING

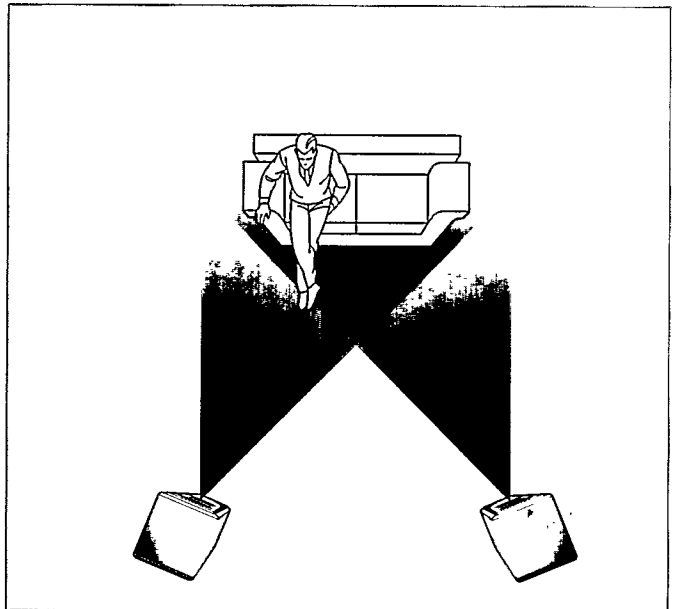
All amplifiers/receivers used over a long period of time at high power can produce distortions which may seriously damage your speakers. Your ears will tell you when this is the case. The speakers will indicate overloading by giving severe distortion. When this happens make sure that the tone control and the volume control are reduced to a level where the sound is acceptable again.

Remember:

Speakers are most often damaged when they are overdriven by under-powered amplifiers.

POSITIONING

- The 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 on the amplifier/receiver.
- The speakers should be arranged as symmetrically as possible in the room and at the same height. The best height for listening when you are seated is when the high tone speaker (tweeter) is at the height of your ears (while seated).
- The best stereo effect is obtained when the distance between the two speakers is equal to the distance between each of the speakers and the listener, so that the listener and the speakers form an equilateral triangle.



- Avoid positioning the speakers in a corner, as this causes bass reproduction to be amplified too much.
- Do not place any obstacles in front of the speakers as this affects the high tone reproduction, thus reducing the stereo effect considerably. The listener should still be able to 'see' the speakers.
- Each room has different acoustic characteristics and the positioning possibilities are often limited. You can find the best position for your speakers by experimenting.

TECHNICAL SPECIFICATIONS

FB 651

Power handling capacity - continuous.....50 Watt
Power handling capacity - peak (max. 10 minutes).....80 Watt
Impedance:6 Ohm
Sensitivity:87 dB / 1 Watt / 1 Metre
Frequency response:.....46-20,000 Hz
Crossover frequency:5,000 Hz
Material cabinet:14 mm H2
Material baffle:25 mm MDF
Volume internal/external:13,3/21,5 litre
Weight:6,2 kg
Dimensions (W x H x D):.....260 x 415 x 200 mm
Loudspeakers:18 cm soft coated woofer
.....18 mm Polygrid-dome

FB 671

Power handling capacity - continuous.....70 Watt
Power handling capacity - peak (max. 10 minutes)120 Watt
Impedance:6 Ohm
Sensitivity:87,5 dB / 1 Watt / 1 Metre
Frequency response:.....46-20,000 Hz
Crossover frequencies:.....1,500 / 5,000 Hz
Material cabinet:14 mm H2
Material baffle:25 mm MDF
Volume internal/external:23,6/35,7 litre
Weight:9,2 kg
Dimensions (W x H x D):.....260 x 600 x 230 mm
Loudspeakers:15 cm soft coated woofer/midrange
.....18 mm Polygrid-dome tweeter
.....15 cm soft coated woofer

FB 691

Power handling capacity - continuous.....90 Watt
Power handling capacity - peak (max. 10 minutes)150 Watt
Impedance:6 Ohm
Sensitivity:88 dB / 1 Watt / 1 Metre
Frequency response:.....38-20,000 Hz
Crossover frequencies:.....1,500 / 4,500 Hz
Material cabinet:14 mm H2
Material baffle:25 mm MDF
Volume internal/external:33,6/46,1 litre
Weight:11,3 kg
Dimensions (W x H x D):.....285 x 650 x 250 mm
Loudspeakers:18 cm soft coated woofer/midrange
.....25 mm Polygrid-dome tweeter
.....18 cm soft coated woofer

FB 696

Power handling capacity - continuous.....120 Watt
Power handling capacity - peak (max. 10 minutes)180 Watt
Impedance:6 Ohm
Sensitivity:90 dB / 1 Watt / 1 Metre
Frequency response:.....37-20,000 Hz
Crossover frequencies:.....1,500 / 4,000 Hz
Material cabinet:14 mm H2
Material baffle:25 mm MDF
Volume internal/external:52,9/68,4 litre
Weight:14 kg
Dimensions (W x H x D):.....285 x 730 x 330 mm
Loudspeakers:20 cm soft coated woofer/midrange
.....25 mm Polygrid-dome tweeter
.....20 cm soft coated woofer

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