

Technical Description and Operating Instructions



Ultima 40 Mk 2

Stereo Floor Speakers

Teufel

Contents

General notes and information	3
Notice	3
Original packaging	3
Contact	3
Proper use	3
Safety notes	4
Caution icons	4
Safety notes	4
Unpacking and setup	5
Check to be sure	5
Location tips	5
Removing the cover grill	5
Connecting	6
Connection variations	6
Standard connection	6
Bi-Wiring	6
Bi-Amping	6
Connecting the cables	6
Spikes (option)	7
Care and cleaning	7
Protecting the environment	8
Technical data	8

General notes and information

Notice

The information in this document may change without prior notice and in no way constitutes any liability on the part of Lautsprecher Teufel GmbH.

No part of these instructions may be reproduced in any form or be broadcasted in any way electronically, mechanically, by photocopy or recording without the written permission of Lautsprecher Teufel GmbH.

© Lautsprecher Teufel GmbH
Version 1.0
May 2012

Original packaging

If you wish to exercise your eight-week right of return, we ask that you be absolutely sure to hold onto the packaging. We can only accept the return of the speakers IN THE ORIGINAL PACKAGING.

Empty boxes are not available!

Complaints

In case of complaint we will need the following information to process your enquiry:

1. Invoice Number

Can be found on the sales slip (enclosed with the product) or on the order confirmation received as a PDF document, e.g. 4322543.

2. Serial number and batch number respectively

Located on the back of the unit,
e.g. serial number: UL 04007480121A

Many thanks for your support!

Contact

For questions, suggestions or criticism please contact our customer service department:

Lautsprecher Teufel GmbH
Gewerbehof Buelowbogen
Buelowstrasse 66
10783 Berlin (Germany)

Phone: 00800 - 200 300 40 (free of charge)

Fax: +49 (0)30 - 300 930 930

E-mail: service@teufelaudio.com

www.teufelaudio.com

Proper use

The product is designed for playback of audio signals.

Only use it as described in these operating instructions.

Any other use will be deemed as not in accordance with the instructions and may lead to damage to property or even persons.

The manufacturer accepts no liability for damage caused by use not in accordance with the instructions.

The unit is intended for private use.



Before operating the product please read the safety notes and operating instructions carefully.


This is the only way to use all functions safely and reliably.


Keep the operating instructions safe and pass them on to anyone who may own the unit after you.


Safety notes

Caution icons


You will find the following caution icons in these instructions:

Danger High risk!
 Failure to observe the warning may result in severe personal injury or death.

Attention Moderate risk!
 Failure to observe the warning may result in property damage.


Minor risk!
 Points which should be observed when handling the unit.

Safety notes

Danger Danger to children!
 Children can become trapped in the packing film when playing and suffocate.

- Do not allow children to play with the unit or the packing film. Danger of suffocation.
- Ensure that children do not remove small parts from the unit or take them off of the unit (e.g. control knobs or plug adapters). They could swallow the parts and choke.


Never allow children to operate electrical devices unsupervised.

Danger to hearing!
 Loud noise may lead to hearing loss. Particularly when the subwoofer has been set to maximum volume and the unit is activated, very high noise pressure may suddenly be produced. This may have psychological consequences and also cause physical injury. Children and pets are particularly at risk.

- Set your signal source unit volume control to a low setting.
- When the volume is set high, always keep a certain distance from the unit and never place your ear directly on the speaker.
- To avoid damage to health, avoid extended listening at high volume.

Danger Danger of injury/damage!
 Incorrect location may result in damage.

- Never use the unit unmounted in vehicles, in unstable locations, on wobbly stands or furniture, on under-dimensioned brackets etc. The speakers could tip or fall down and cause injury to persons or be damaged.
 - Place the speakers in such a way that they cannot be knocked over unseen and make sure that the cables do not pose a trip hazard.
 - Place the speakers on the ground only.
 - Only use the supplied base plate.
 - Carefully follow the installation instructions.
 - Do not place the unit near sources of heat (e.g. heaters, ovens, other heat generating equipment such as amplifiers etc.).
-

Attention Fire hazard!
 Improper use may lead to damage or fire.

- Do not place open flames such as burning candles or similar on the unit.
 - Ensure sufficient ventilation.
 - Do not place the unit in direct sunlight.
 - Only use the unit in indoor areas.
 - Do not operate the unit in moist areas and protect it from drops of water and splash water.
- Also take care not to stand vases or other containers filled with liquid on or near the unit in order to avoid liquid getting into the housing.
-

Unpacking and setup

Open the box carefully, take out the half shell EPE packaging foam and carefully lift the speaker out of the box without touching the diaphragms.



Connector cables

Due to differing customer requirements, the Ultima 40 Mk 2 speakers are shipped without connector cables. You can purchase appropriate cables in our web shop in the "Accessories" area.

Check to be sure

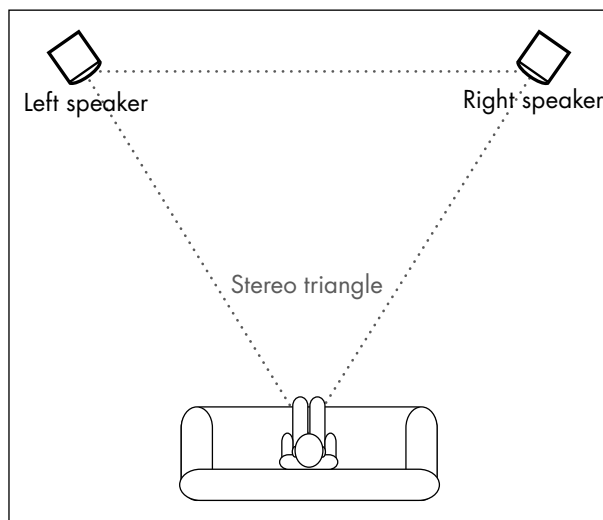
- Check that all items have been delivered and that nothing is damaged.
- If the delivery exhibits transport damages, do not use the speakers; instead consult our service department (see page 3).

Location tips

- Select a stable, level base.
- Make sure that the environment is clean and free from dust.
- Avoid placing the unit close to sources of heat or in direct sunlight.
- Arrange the connector cables so that they do not pose a trip hazard.
- Do not place any heavy objects on the cables or the speakers.

The following data concern an "ideal listening room", in which the listener sits in a central position at a sufficient distance in front of the speakers (see the adjacent graphic) and no objects (tables or the like) are located in between. Unfortunately, the room, furnishings or other circumstances do not always allow for optimum arrangement.

Modern amplifiers offer a variety of possibilities for electronically compensating losses associated with the arrangement. The following general rule applies: You can always experiment on what works best in your listening room in terms of sound and appearance based on our recommendations. Let your ears (and eyes) be the judge!



The speakers should be situated to the left and right of the listener and if possible, form an equilateral triangle with the listener – the so-called stereo triangle (distance from the listener = distance between the speakers). The speakers should project sound directly into the room or be arranged slightly towards the listener.

Removing the cover grill

Attention Risk of damage!



Make sure that you do not touch the highly sensitive diaphragms.

You can remove the cover grill from the speakers by carefully reaching behind the protective grid and slowly pulling it off to the front.

When the cover grills are removed, high frequency output becomes clearer in particular. When reattaching the grids, ensure that the installation pins slide into the corresponding holes on the speaker.

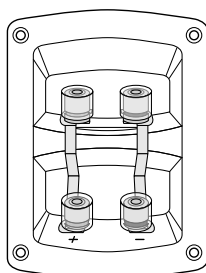


Connecting

Connection variations

A connector terminal with four terminal clips is located on the back side of the speakers. Here you can connect the speaker cables directly or with pin plugs. We only describe the direct connection in these instructions.

The terminals are each marked in red (+) and black (-).



In addition to a standard connection, where every speaker column is connected to the amplifier with a cable, you can also choose the variants "Bi-Wiring" or "Bi-Amping".

Standard connection

With this connection, the Ultima 40 Mk 2 speakers are connected like conventional speakers with one double-strand speaker cable each. The contact bridges between the connector terminators may not be removed in the process. You can connect the cables accordingly to the top or bottom terminals.

Bi-Wiring

With Bi-Wiring, the speaker is connected to the final amplifier using two separate speaker cables for the bass sound and mid/treble sound branch. This decoupling of the speaker systems may improve the sound quality.

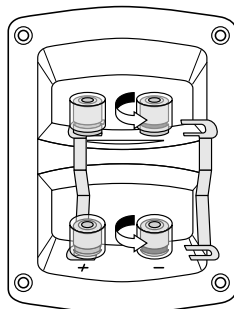
Bi-Amping

In case of Bi-Amping, the bass sound and mid/treble sound branch are each powered by an own power amplifier of the amplifier. You connect a double-strand speaker cable to each power amplifier. Afterwards, you connect the speaker cable to the upper and lower connector terminators of the speakers respectively. Advantage: More power and improved sound quality.

You only have to remove the contact bridges for Bi-Wiring or Bi-Amping operation:

To do so, turn the connector terminals counterclockwise until loose and then pull the contact bridges out.

The top terminals lead to the high range and midrange speakers, the bottom terminals lead to the low range speakers.



Connecting the cables

Danger Danger of injury/damage!



Arrange the cables so that they do not pose a trip hazard.

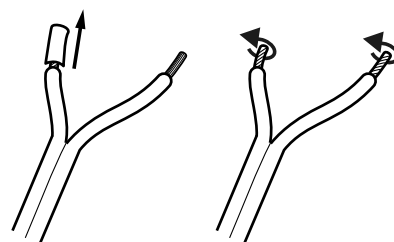
1. Turn off your amplifier.
2. Lay the speaker cables from your amplifier to each speaker. These cables should be high-quality double-wire speaker cable with marked strands. The diameter should amount to at least 1.5 mm².



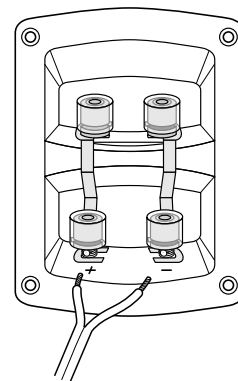
Make sure that the polarity is correct!

Connect the same-colour terminals of your speakers and amplifier with each other. Otherwise the sound quality will suffer. The individual single wires of the speaker cables are marked with different colours or shapes to facilitate the process.

3. Split the single wire down to approx. 30 mm on both ends and strip approx. 10 mm of insulation off of each cord. Twist the stripped single wire ends together so that no wire protrudes.



4. Turn the connector terminals counterclockwise until loose. Run the stripped single wire ends into the holes that are now visible. Turn the terminal clockwise until closed. The cable has now been clamped in place.
5. Connect the other end of the speaker cable to your amplifier. The operating instructions of the appliance should contain notes on this.



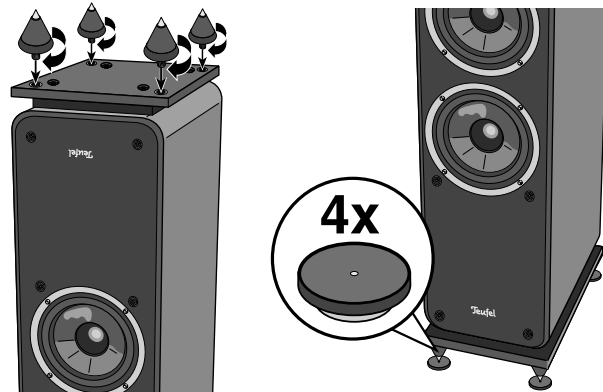
Spikes (option)

Optimise the sound characteristics of your floor speakers by an acoustic coupling.

In our web shop we offer appropriate spikes for your speakers which are screwed into the threaded holes at the bottom side of the speaker base plate and placed on the provided washers.

Thus, the oscillation energy of the speakers is ideally transferred to the hard-walled floor.

The result with respect to sound quality is a more precise bass range and a more detailed resolution in the mid and treble range. The washers preserve the parquet floor or the carpet. Moreover, the spikes compensate for unevenness of the floor.



Care and cleaning

The veneered surfaces of our speakers have a protective surface coat, which eliminates the need for wood polish.

- You can best remove dust or small amounts of dirt with a dry, smooth leather cloth.
- Rub off stubborn dirt with a damp cloth. Make sure that no liquids penetrate the speakers.
- Then immediately wipe the surfaces dry using a soft cloth and without applying pressure.

Attention Risk of damage!



Using the wrong cleaning materials may damage the delicate surface of the case.

- If possible only use lukewarm, plain water without any cleaning products. In case of stubborn marks, a mild soap solution may be used.
- In no circumstances should caustic cleaning products, white spirit, thinners, petrol or similar be used for cleaning.

Protecting the environment

Disposal of the unit



Used units must not be disposed of with household waste!


If the unit is no longer operational, every consumer is required by law to dispose of used devices separate from household waste, e.g. at a collection point run by the communal authority

borough. In this way, used devices can be recycled and waste materials disposed of in an environmentally friendly manner.

For this reason, electrical equipment is labelled with the displayed symbol.

Technical data

Impedance	4-8 Ohm
Volume	52,5 Liter
Dimensions (W x D x H)	215 mm x 325 mm x 1000 mm
Net weight	16 kg

 This product conforms with Council of the European Union guidelines 2004/108/EC and 2006/95/EC.

Technical changes reserved!

Teufel

For questions, suggestions or other issues please contact our customer service department:

Lautsprecher Teufel GmbH
Gewerbehof Buelowbogen - Aufgang D1
10783 Berlin (Germany), Buelowstr. 66

Tel.: 00800 200 300 400 (toll-free)
Fax: +49 (0)30-300 930 930
www.teufelaudio.com

No liability is accepted for the accuracy of this information. Technical changes, typographical errors and other errors reserved.