

SOUND EXPERIENCE WHILE TRAVELING ...

MOTORHOME SOUND SYSTEMS

Status 01/24

Product information for retrofitting the sound system

Integrated Carthago motorhomes

»All models from 2013 onwards«



TO THE PRODUCTS



c-compactline

chic c-line

chic e-line

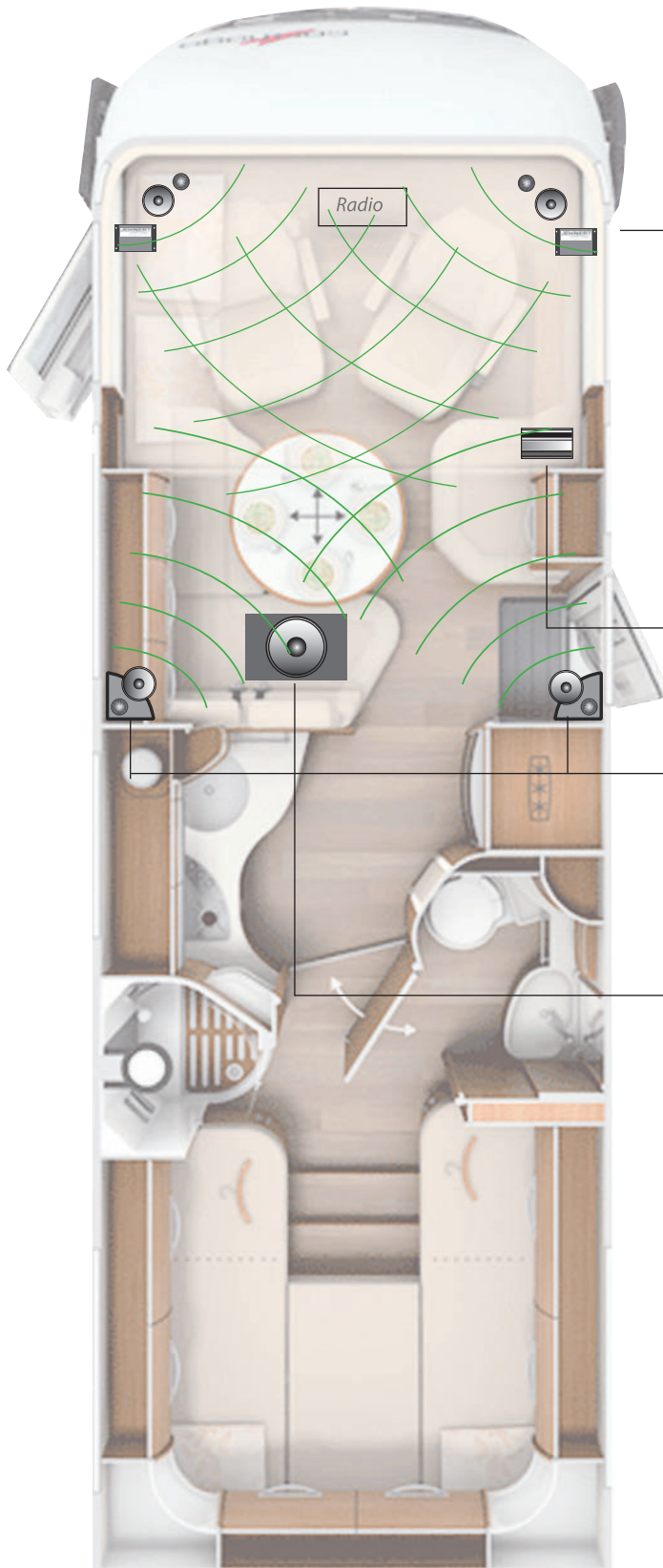
chic s-plus

highliner

c-tourer I

liner for two

Speaker positioning »Driver's cab and living area«



Driver's cab:

2-way sound system



Bsp. Abb.: Sprinter Modelle

digitaler 5-Kanal-DSP-Verstärker



Living area:

2-way living room speakers
of your choice



200mm subwoofer of your choice



2-way cab systems

High Performance sound system cab + living area

2-way sound system „Driver's cab“

Vehicle-specific mid/high module covered in high-quality artificial leather.

The acoustic fabric panels are covered with lightfast fabric.

The scope of delivery includes a 2-way system incl. crossover.

Technical data:

Power handling continuous / music: 2x 60 / 160 watts
 Frequency response: 75 - 25,000 Hz
 Impedance: 4 Ohm
 recomm. Amplifier power: from 2 x 50 - 100 Watt @ 4 Ohm



Fiat Ducato - Integrated models from 2018 onwards

- Suitable for all models with dashboard incl. leather application
- incl. angled 26mm neodymium tweeter and 100mm midrange driver

Article no. 2-way front system **69840**

RRP EUR 549,-



Mercedes Sprinter - Integrated models

- Suitable for all integrated models based on Mercedes Sprinter
- incl. angled 26mm neodymium tweeter and 80mm midrange speaker
- incl. crossover for damping the center speaker

Article no. 2-way front system **60699**

RRP EUR 549,-



chic c-line / e-line up to year 2018

- Suitable for all models with dashboard incl. burl wood application
- incl. angled 26mm neodymium tweeter and 100mm midrange driver

Article no. 2-way front system **69830**

RRP EUR 549,-



chic s-plus / Liner für zwei bis Bj. 2019

- Suitable for all models with dashboard incl. burl wood application
- incl. angled 26mm neodymium tweeter and 100mm midrange driver

Article no. 2-way front system **69934**

RRP EUR 549,-



Quality „made in Germany“ - DIN ISO 9002

Sound system for integrated motorhomes

chic c-line chic e-line chic s-plus liner for two c-tourer I c-compactline

High Performance sound system cab + living area

2-way sound system „cab“ (for c-line/e-line/s-plus/liner for two)

- 2x 26mm neodymium soft dome tweeter „XE26“
- 2x 100mm JEHNERT „XE100“ midrange drivers
- 2x 2-way crossover „vehicle-specific calibrated“
- „Integration“ on the dashboard
 (Please specify the cab when ordering,
 speaker mount is vehicle-specific)



2-way sound system „cab“ (for c-compactline & c-tourer) (speakers integrated directly into the dashboard)

- 2x 26mm neodymium soft dome tweeter „XE26“
- 2x 100mm JEHNERT midrange driver „XE100“
- 2x 2-way crossover „vehicle-specific calibrated“



JEHNERT design living room boxes with acoustic fabric panel of your choice

- High-quality 2-way sound system
- Installation location: corner of the seating area and entrance area
- Brilliant sound, compact, small and perfectly integrated



Example Fig. Multibox 7000

For the perfect sound dynamics!

200mm subwoofer „plug&play“ of your choice

- 1x 200mm subwoofer with quadruple bass voice coil
- ensures spirited sound dynamics
- (no annoying vibration noises and booming basses!)
- perfects the surround sound in the bass range



Art.-No.: 17011

The turbo for the sound system!

digital 5-channel DSP amplifier „plug&play“

- Pre-installed „Carthago“ setup (runtime correction, equalizing, etc.)
- Enormous sound enhancement thanks to increased performance and 56-bit DSP technology
- Very energy-saving



Optional accessories:

- Amplifier control for controlling the subwoofer
- Bluetooth module for playing music without switching on the radio



Quality „made in Germany - DIN ISO 9002

Sound system „Driver's cab“

For Carthago motorhomes, there are two options for installing the front system: firstly, the loudspeakers can be integrated in special loudspeaker mounts, which are elegantly mounted on the dashboard.

Due to the special angling of the loudspeakers in the molded part, all acoustic conditions are optimally taken into account.

In addition, the holder is covered with leather and the loudspeaker is additionally protected and concealed with an acoustic fabric cover.

Secondly, the speakers are installed directly on the dashboard.



Mercedes Sprinter, loudspeaker installed in the cup holder

Mid-tweeter system - dashboard: The specific „Carthago mid/high range system“

To optimize the sound characteristics for the mid-high range of the driver's cab, a high-quality 2-way system in the listening position for the driver and front passenger was developed for the dashboard.

listening position for the driver and front passenger was developed for the dashboard.

The tweeter in the mid/high range panel was angled.

This special arrangement acoustically forms a so-called stereo triangle and ensures optimum sound dispersion.

The result: a wide-ranging stage image with spatial reproduction

As the dashboard does not offer any installation options for loudspeakers at the factory, special loudspeaker mounts, so-called „mid/high tone panels“, have been developed.

For a visually harmonious fit with the dashboard, a synthetic leather with an identical structure and color.



Mid-high module system
 on the dashboard
 „chic e-line until 2019“



Integrated“ sound system cab
 (without loudspeaker holder, „Compactline“)



Sound system module
 Fiat Ducato up to year 2018



Soundsystem-Modul „chic c-line/e-line/s-plus“
 Fiat Ducato / Iveco Daily ab Bj. 2018

*All mid/high tone panels
 are designed for harmonious integration
 the respective dashboard
 adapted*

„Living area“ sound system

Two speakers are installed at the factory in the living area below the shelf above the seating area. These factory-fitted installation locations are not used due to the unfavorable radiation directly to the floor. In order to be able to enjoy excellent sound performance even when stationary, the cab system in the living area has been expanded to include two high-quality loudspeaker boxes of your choice with a 2-way system. The best acoustic placement is in the seating area and the entrance area.

The result: the complete system achieves perfect spatiality - regardless of the listening position.

Living room boxes of your choice:

For living room speakers, we recommend the Multibox „6600“ or „7000“. The „7000“ speaker is slightly smaller, but definitely requires an additional subwoofer. You can choose between 8 different colors to match your interior design.



more examples on our website



Living room box - seating area



Factory-fitted without living area box

„Living room box - installation examples“



Multibox 7000 living area



Multibox 7000 living area



Multibox 7000 living area

Experience low bass - subwoofer!

We always recommend a subwoofer for the complete sound system (included in sound package 1 & 2).

The task of a subwoofer is to support the bass range. It is not about sound pressure and decibels, but rather about achieving clear, spirited sound dynamics and perfect room sound.

Enjoy music vividly and „perceptibly“ - without annoying vibrations and booming bass!

Special bass reflex subwoofers have been custom-designed for space-saving installation under the seating area. Despite the small enclosure volume, they deliver maximum sound quality.

The subwoofer is actively driven with a „plug & play“ connection cable via the integrated subwoofer output of the 5-channel amplifier.

Depending on the space available under the bench seat in the living area, there are two subwoofers to choose from (you can of course choose from all the subwoofers on offer (subwoofer overview list)):

Variant 1 (example: 17011):

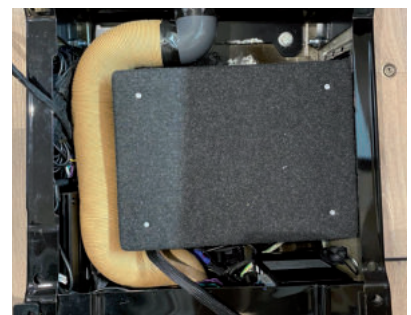
Subwoofer installation under the seating area
 Storage compartment behind the driver's seat, if a
 factory-fitted
 heating pipe or similar (see illustration on the right)



Variant 2 (example: 17011):

Subwoofer mounting under the passenger seat
 (Mercedes Sprinter)

Dimensions in cm (HxWxD):
 35 x 35 x 15.3



Variant 3 (example: 17014):

Subwoofer mounting under the driver's seat
 (Fiat Ducato)

Dimensions in cm (HxWxD):
 38 x 28 x 16



Perfect sound dynamics - compact design - space-saving integration

Digital 5-channel amplifier

The digital 5-channel amplifier is extremely powerful and particularly versatile. It offers the possibility of the finest frequency programming with broadband frequency compensation as well as the transfer of frequencies and runtime corrections. The amplifier has a dynamically regulated switching power supply, which reduces heat generation and power consumption to an absolute minimum.



Technical data	High-Power
Power Duration/Music:	8x 55 /110 Watt @ 4 Ω 1 x 280/560 Watt @ 2 Ω
Quiescent current:	< 1mA
Transmission range:	20-22.000 HZ
Power consumption:	
High volume	20A / 240 Watt
Medium volume	10A / 120 Watt
Quiet volume	3A / 36 Watt
Dimensions(HxBxT):	44 x 185 x 166mm
Weight	1.840g

AUX-In or Bluetooth® integrated in the amplifier

The AUX or Bluetooth® module expands the amplifier with a Bluetooth® audio streaming function or an AUX connection.

An AUX module is already integrated in the „High-Power“ version of the amplifier, but this must be configured. If both a connection via AUX and a Bluetooth connection via the „High-Power“ amplifier are required, it is possible to install the AUX module (64111-AUX jack) on the circuit board. With both power variants, a Y-adaption 1x AUX for the TV, and an external Bluetooth module (art. no.: 68497) can be connected to the second AUX connection.



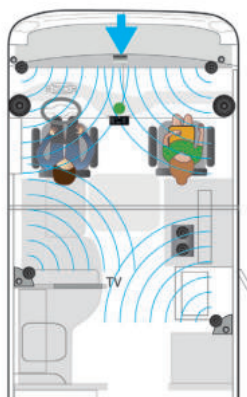
AUX activation „High-Power“ amplifier	64111-AUX-Klinke	50,-
AUX extension „Xcellent“ amplifier	11800-AUX-Klinke	99,-
Bluetooth-Modul integrated in the „Xcellent“ amplifier	11087-BT	129,-

Amplifier control for subwoofer control & setup switch (Art.-No. 68495)

The universal cable remote control makes it possible to control various functions such as the subwoofer intensity. The respective configuration options are programmed using special software. The remote control can be used to switch between two sound setups, for example. This has the great advantage that the sound can be specifically adjusted for driving and stationary mode.

To use the setup change, the amplifier must be specifically programmed.

„Driving operation“

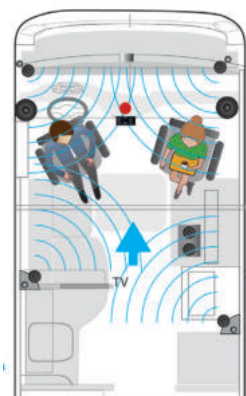


Positioning and adjustment of the individual speakers to the driver's seat by means of a runtime correction.

The sound is mainly reproduced from the front.



„Standby mode“



Positioning and adjustment of the individual speakers on the driver's and passenger's passenger seat without runtime correction.

- Rear speakers become the front speakers
- Front speakers become the rear speakers



Subwoofer control & setup switch	68495	39,-
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Xcellent Power Package

For all hi-fi purists, the „power pack bundle“ is the ideal extension. This includes the powerful 9-channel 64-bit DSP amplifier including ACO processor. The AUX or Bluetooth module can of course be added as accessories. When choosing the amplifier, the subwoofer is supplied in a high-power 2 Ohm dual voice coil version as standard. Instead of the regular subwoofer control and setup switch, the Conductor can also be selected as an option, which offers various setting options.

The 8-channel DSP amplifier included as standard is replaced by a 9-channel 64-bit DSP amplifier including ACO processor in the Power Pack expansion set. It is not only the extra power that makes sound dreams come true, but also the addition of the subwoofer with 2 Ohm dual voice coil optimizes the sound dynamics.

All high-power sound packages can be expanded with the power pack. These components are an upgrade of the amplifier and subwoofer version included in the sound packages.

Technical data subwoofer:

Load capacity continuous / music: 300 / 600 watts
Max. linear cone excursion: +/- 8.0 mm
Impedance: 2 x 2 Ohm
Efficiency 1 W / 1 m: 86.0 dB

Technische Daten »ACO-Prozessor DSP"

Load capacity duration / music „front & rear channels"	-Channel A - F: 6x 65 Watt @4 Ohm - Sub Out G-H: 2x 90 watts @4 ohms -2x 160 Watt @2 Ohm
Load capacity duration / music „front & rear channels"	
Quiescent current	< 1 mA
Undervoltage detection	9.6 V (max. 5 sec. down to 6 V)
Transmission range	10 Hz - 22.000 Hz
Dimensions (H x B x T)	46 x 130 x 153 mm
Order no. ACO Processor DSP:	11800



ACO processor DSP

200mm subwoofer with 2 Ohm dual voice coil

Surcharge „Xcellent Power Package" Amplifier incl. ACO processor and 2x2 Ohm subwoofer (upgrade of components included in the sound package)	11800-99	190,-
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Setup switch for your own personal sound experience

The CONDUCTOR sound controller can be used to control and manage all the important functions of the (DSP) sound system - from volume control, signal source selection and setup change, through to control of the optional Bluetooth module.

Manage differently optimized sound profiles of your DSP for rock, pop, classical or absolutely pure and always enjoy your music with optimal sound quality.

optimum sound quality. Thanks to its compact design, the CONDUCTOR can be integrated almost seamlessly into the existing vehicle interior and blends unobtrusively into the vehicle interior.

- Up to 4 volume menus configurable (Master, Digital, AUX, Subwoofer, Rear Attenuation)
- Selectable volume range (60 dB, 24 dB, 12 dB)
- Volume increments selectable (1 dB steps, 0.5 dB steps)
- Individual color configurable for each volume menu
- Intuitive control of the Bluetooth playback and pairing function (only for devices with optional Bluetooth Extension Card)
- 12 x RGB LEDs for visual feedback
- Configurable brightness and automatic dimming function
- Flush installation with Ø 40mm hole cut-out
- 5 m cable harness - split in two for easy installation.
- No separate power supply required
- Fully upgradeable and configurable with the DSP PC tool
- Up to 12 sound setups configurable



Conductor for controlling the DSP sound system	11025	119,-
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Bluetooth® - Receiver

Transfer music applications from your smartphone or tablet to your hi-fi system. Especially for vehicles with 12 V on-board power supply. With the Bluetooth® receiver, music can be played directly on the hi-fi system / TV / radio. The Bluetooth® receiver allows music to be streamed directly from a Bluetooth®-enabled device and uses Bluetooth® 4.0 technology to establish a wireless connection between the device and any receiver with an AUX input without putting excessive strain on the battery. The connection is simply made via a 3.5 mm jack plug.

Note: The external Bluetooth module allows you to use the sound system without switching on the radio. When using 2x AUX sources, the Y adapter is required.



Bluetooth Modul I for connection to amplifier (external)	68497	59,-
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Y-adapter for two AUX inputs



To connect another AUX connection or external Bluetooth module to the digital amplifier in addition to the AUX connection (e.g. for TV connection) (see article Bluetooth receiver incl. 3.5 mm jack connection), it is possible to use two AUX inputs with the Y adapter. This means that 1x AUX can be used for the TV via the Y adapter and an external Bluetooth module (or other terminal device via jack) can be connected to the second AUX connection.

Y-Adapter for TV & Bluetooth module	68496	9,-
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Rocker switch

The rocker switch is used to use the sound system via AUX or Bluetooth®. The sound system is controlled via AUX or Bluetooth® without switching on the radio.



Rocker switch / radio switch	69499	119,-
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Interference suppression filter

Der Entstörfilter mit 3,5 mm Klinkenanschluss filtert Störgeräusche (brummen, knacken, pfeifen) heraus, die durch elektrische Anlagen des Fahrzeuges verursacht werden können. Der Filter wird »plug & play« zwischen der Audioquelle (TV oder Radio) und dem Verstärker angeschlossen. Durch den Entstörfilter werden die meisten im Fahrzeug auftretenden Störgeräusche verhindert.

- Eliminates interference noise, ground hum loops, grounding problems
- Frequency: 2 - 20,000 Hz
- Connection via 3.5 mm jack
- No power supply required

Recommendation: The highest level of effectiveness is achieved if the interference suppression filter is to the output stage.

Interference suppression filter	68499	20,-
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Jack cable 7.5m

The jack cable is used, for example, for optimal connection between TV set and radio or amplifier and smartphone or other end devices via a jack.

- Metal plug incl. flexible premium cable
- 3.5mm jack plug to 3.5mm jack plug
- gold-plated plug contacts
- precisely fitting plugs for a perfect connection of audio components



Jack cable 7,5m	84387	12,-
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Sound package 1 „incl. loudspeaker recording“ (c-line/e-line/s-plus)

Driver's cab:

- 2-way sound system incl. speaker mount
- Subwoofer of your choice
- Digital 5-channel amplifier
- incl. pre-installed vehicle-specific sound setup
- „plug & play“ connection cable for subwoofer and amplifier



5-channel DSP amplifier



Subwoofer of your choice



Cab system



Example: Ducato/IVECO

Sound package 2

Driver's cab:

- see sound package 1
- „incl. loudspeaker recording“

Living area:

- 2 x Multibox 6600, 6600-4K, 7000 or 7000-4K

Color of your choice



Multibox nach Wahl

Product description	Colour	Art.-No.	RRP
2-way front system - Fiat Ducato up to model year 18 (Chic c-line/e-line/s-plus) Dashboard with burl wood application	anthracite	69830	549,-
2-way front system - Fiat Ducato ab Bj. 18 (Chic c-line/e-line) /IVECO Daily (s-plus / Liner for two) Armaturenbrett mit brauner Lederapplikation	anthracite	69840	549,-
2-way front system - Mercedes Sprinter Armaturenbrett inkl. Getränkehalter	anthracite	60699	549,-
2-way front system - Highliner Dashbord inkl. inspektionsschlüssel	anthracite	69834	549,-
2-way front system - chic-splus / Liner for two up to model year 2019 Dashboard with burl wood application	anthracite	69934	549,-

Note: When ordering sound package 1 or 2, be sure to specify the desired front system (see page 2)

Product description	Art.-No.	RRP
Soundpaket 1 »incl. speaker holder« with high-performance amplifier	69501-82	1.444,-
Soundpaket 2 »incl. speaker holder« with high-performance amplifier	69502-82	1.744,-

Optional accessories	Art.-No.	RRP
„plug & play“ adapter for original FIAT radio (Ducato III)	11016	59,-
„plug & play“ adapter for original FIAT Series 8 radio incl. rear speakers	11020	59,-
Subwoofer control & setup switch	68495	39,-
Bluetooth Modul I for connection to amplifier (external)	68497	59,-
Activation of AUX input „High Power“ amplifier	64111-AUX-Klinke	50,-
Y-adapter for TV & Bluetooth module	68496	9,-
Interference suppression filter for TV	68499	20,-
Jack cable 7,5m 3,5mm Stereo	84387	12,-
Rocker switch / radio switch	69499	5,-

Xcellent Power Package (Extension of the subwoofer & amplifier power)	Art.-No.	RRP
Aufpreis »Xcellent-Power-Paket« Amplifier incl. ACO processor and 2x2 Ohm subwoofer (Upgrade of components included in the sound package)	11800-99	190,-
Conductor for controlling the DSP sound system	11025	119,-
AUX extension integrated in the „Xcellent“ amplifier	1800-AUX-Klinke	99,-
Bluetooth-Modul integrated in the „Xcellent“ amplifier	11087-BT	129,-
Bluetooth Audio Streaming Modul optical	12304	159,-
Optical digital audio cable 0,5m Toslink Cables	52063	16,-

Sound package 1 „without speaker mount“ (Compactline)

Driver's cab:

- 2-way sound system integrated directly on the dashboard
- Subwoofer of your choice
- Digital 5-channel amplifier
- incl. pre-installed vehicle-specific sound setup
- „plug & play“ connection cable for subwoofer and amplifier



5-Kanal DSP-Verstärker



Subwoofer nach Wahl



Fahrerhaus-System



Sound package 2

Driver's cab:

- see sound package 1
- „without loudspeaker recording“

Living area:

- 2 x Multibox 6600, 6600-4K, 7000 or 7000-4K,
- Colour of your choice



Note: When ordering sound package 1 or 2, please specify the desired front system (see page 2)

Product description	Art.-No.	RRP
Sound package 1 „without loudspeaker recording“ with high-performance amplifier	69311-82	1.280,-
Sound package 2 „without loudspeaker recording“ with high-performance amplifier	69312-82	1.580,-

Travelling and doing without anything ...

Enjoy music and forget everyday life. Holidays are the best time to do this.

A high-quality front system in a precisely tuned listening position for the driver and front passenger optimises the sound characteristics in the cab. The sound system is acoustically calibrated to the respective cab. This guarantees an optimum sound image and detailed music reproduction.

The living room system offers the optimum surround sound supplement and is harmoniously adapted to the respective design and floor plan. An energy-saving 5-channel amplifier with state-of-the-art 56-bit DSP technology and a bass reflex subwoofer ensure impressive sound dynamics that will delight music lovers.



Our team in Pliezhausen will be happy to help and advise you at any time:

JEHNERT Sound Design

»Development and production of car audio systems«

