



# FASTMUTE © **SONIC XL**

Sound Reproduction to your Car Speaker

Instruction Manual





Please read these instructions carefully before installing or using this product and keep the manual at handy for reference when installing!

### 1. Guarantee and Liability:

ge-tectronic guarantees that this product is free from material and manufacturing defects under normal usage conditions. The guarantee period is 2 years from date of invoice. Warranty excludes improper product handling.

This includes among other things, incorrect storage, installation, connection or operation.

To make a warranty claim, please contact ge-tectronic support. Under no circumstances is damage caused by the installation or use of this device included in warranty, either from the equipment itself or the incorrect installation in the vehicle. The manufacturers' requirements for wiring and installation must be followed completely. Damages of any type are the responsibility of the user/installer.

#### Dear Customer,

You made a great decision to purchase the ge-tectronic **FASTMUTE SONIC XL**. ge-tectronic endeavours to provide its customers with stable and reliable products. Therefore every unit goes under extensive functional testing. We thank you for your purchasing decision and hope that our product fulfils all your expectations.

Should you, nevertheless, experience a problem with our products, please contact ge-tectronic support.

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### 2. Safety Information



To avoid damaging this product, the vehicle or audio equipment, please **note that:**

- The connection and installation of the equipment should be performed only by qualified persons
- Carefully read the instructions before installing or using
- Observe the instructions and keep the manual handy for reference!

- Remove all power before opening the equipment case
- Remove all power before running cables or making connections
- Observe the connection polarities (power supplies, audio signals and loudspeakers)
- Incorrect polarity of the loudspeakers can permanently damage the vehicle radio
- Ensure suitable fusing for the power supply
- Make sure that the connectors are completely inserted and the locking tab secured in position
- To remove the connector, release the locking tab and hold the plastic body only
- Do not pull on the connecting cables, and avoid tension on the cables during installation
- Unused cables on the connectors must be individually isolated
- Do not cover the heatsink opening
- Do not expose the equipment to direct sun light
- If you have any doubts, contact a specialist to carry out the installation

### 3. Product Features

- „flextime2<sup>®</sup>” Mode with dynamic loudspeaker control for navigation and music modes
- **AutoPower-Function** - automatic on/off switching, **including delayed switch-off operation without ignition signal** - ideal for vehicles with Bus-Systems
- **Manual-Power Switching** - manual on/off switching via ignition signal
- **two Audio Inputs** (one Audio input by wire in use of **Sound2Nav BT Control** )
- **screened Audio Inputs** with plug-in sockets (3,5mm Jack)
- **Stereo Audio Amplifier** with 15 Watt output (DIN45500) to drive the vehicle loudspeakers
- **universal application**, including radios without external audio and mute connections
- **relay switched output** stage for switching of all **four loudspeaker channels**
- **selectable as “Stand Alone”** solution for separate outboard loudspeakers
- **screened Power Output** for Navi charging cable, to reduce electrical noise
- **adjustable Audio Trigger threshold** to match audio source levels and suppress noise
- **external Mute** for prioritised control by Hands Free equipment
- **plug connector** for **external volume control**
- **Option: *BT LINK 1* or *BT LINK 2* Multiprofile-Bluetooth<sup>®</sup>** for audio streaming and ‘Hands Free’ functions

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### 4. General Functional Description

#### a. Method of Operation

FASTMUTE **SONIC XL** enables the connection of a navigation system (PNA, PDA, and PPC among others), to the on-board loudspeakers of the vehicle in order to play the navigation announcements over those loudspeakers. In the same way, FASTMUTE **SONIC XL** can relay other desired audio signals via the vehicle loudspeakers - for example, MP3-Players, DVD or telephone. FASTMUTE **SONIC XL** also allows the connection of a second audio source, in parallel.

#### b. Dynamic Loudspeaker Control

The new **Flextime2<sup>®</sup> Mode** controls the four loudspeaker channels dependent on the type of audio signal being reproduced. For **brief audio signals** (under 15 seconds), such as are typical from Navi announcements, the equipment remains in **Short-Time-Mode** and, about two seconds after the announcement has finished, switches back to the auto radio. In this operating mode, **only the front loudspeakers** are controlled, therefore the **Radio/CD** continues to be heard over the rear loudspeakers at the same time as the Navi announcement.

For longer audio signals that last over 15 seconds, such as the replay of MP3, talking books, or videos, the equipment switches automatically into **Long Time Mode**. The switch back time, in this case, is about 20 seconds and, after this interval, the equipment switches over to Short-Time-Mode.

As soon as the Long-Time-Mode is active, the **rear speakers are used in addition to the front speakers for the output of music** via FASTMUTE **SONIC XL**. An **intelligent controller** reduces the continual switching of the car radio between songs or pauses in speech in videos to a minimum.

Using the **Multiprofile-Bluetooth<sup>®</sup> Module** „**BT LINK 1** or **BT LINK**“, active telephone calls are switched to all the loudspeaker channels by FASTMUTE **SONIC XL**.

Additionally, there is the option to **suppress the switchover** of the loudspeakers, for example where an external Hands Free unit is used.

#### c. AutoPower-Function

Because, on many vehicles with Bus-Systems, there is no ignition signal available, FASTMUTE **SONIC XL** provides automatic recognition of the radio switch-on. As soon as the radio is switched on, FASTMUTE **SONIC XL** is automatically activated.

An **integrated switch-off delay** keeps the system active for about 40 minutes after the radio is switched off. If an audio signal is detected during the switch-off time, then the switch-off delay period is restarted. This function ensures the correct operation of FASTMUTE **SONIC XL** when the radio is switched off. At the end of the switch-off delay time, the equipment switches to **quiescent mode**, to prevent possible battery discharge.

**For vehicles without a radio, manual switch on/off via the ignition is possible.**

#### d. Low Noise

FASTMUTE **SONIC XL** provides its own **noise-protected power supply** for attached equipment (PNA, PDA, PPC) via the charging cable of the unit. The DIN-ISO Adapter is equipped with an integrated connector for charger cable operation.

The **integrated power supply output** delivers a high quality and low noise output, because the output is protected and additionally noise-screened. This minimises annoying **electronic noise** from the vehicle equipment. Furthermore, the vehicle power output socket (generally the cigarette lighter) remains free, **avoiding the traditional cable spaghetti** on the dashboard. Finally, both audio inputs are equipped with **extensive noise screening** and thus interference and noise in the audio signals are even further reduced.

#### e. Output volume adjustment

FASTMUTE **SONIC XL** provides its own amplifier with **electronic volume adjustment**.

The volume control ("Volume") can be adjusted on the unit to vary its output.

For more comfortable operation of the output volume, an **external volume controller** can be connected via a jack plug (optional). (Use Connector: "**Ex. Volume Control**")

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## 5. Assembly, Installation and Connection

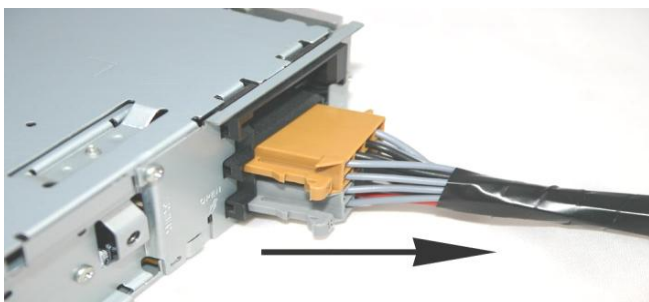
### a. Installation

**Simple, plug-in installation:** The **supplied ISO DIN Adapter** is simply installed between the radio and the original wiring for all radios with DIN ISO Connection. If your vehicle does not have DIN ISO plug connections, TELEKUNKEN supplies **vehicle-specific adapters, in addition** to the DIN ISO adapter. **Thus, the original wiring in the vehicle remains unaltered.**

With some vehicles, the space available behind the radio is very limited. The DIN ISO adapter of the FASTMUTE **SONIC XL** is designed in such a way that the equipment can also be installed **behind the glove compartment**. In this case, remove the glove compartment (usually fastened with four screws) and the radio from the console. Run the DIN ISO adapter cable from the radio slot to behind the glove compartment. Attach all cables in accordance with the following installation instructions. Ensure that the housing of FASTMUTE **SONIC XL** does not rest directly against the vehicle frame so that vibration cannot be transmitted to the equipment. If necessary, fit foam material between the parts.

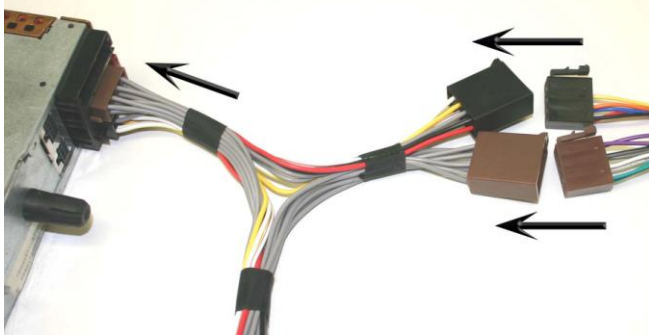
If your FASTMUTE **SONIC XL** has a ventilation opening on the upper part of the housing, **ensure that the heat can escape unhindered.**

### b. Connecting the DIN-ISO Adapter



**Picture 1:**

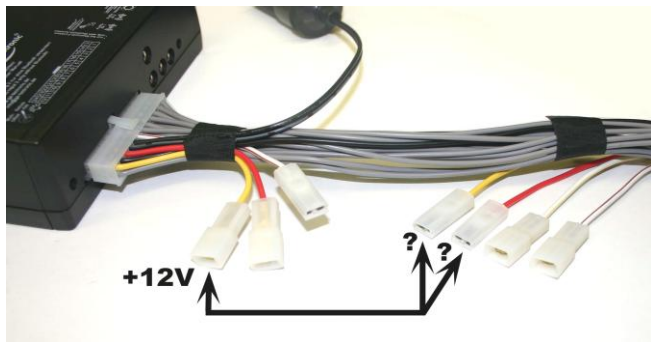
Remove the radio from the console following the manufacturers' instructions. Remove the DIN ISO plug from the vehicle wiring harness at the rear of your radio.



**Picture 2:**

Insert the supplied DIN-ISO-Adapter between the radio sockets and the vehicle wiring harness.

**If your vehicle does not have ISO connectors, our accessory program can supply suitable auxiliary adapters for your vehicle.**



Picture 3:

Because the pin connections for continuous power and ignition are not identical across vehicle types, the flat connectors allow the correct connections to be made.

In order to be able to use all functions of the FASTMUTE **SONIC XL** the unit should be connected to the permanent plus, therefore **connect the two yellow cables – the PIN 24 of the system plug with the yellow cable of the ISO-Adapter.**

**Test the functionality** by inserting the **Navi-charger cable** in the 12V-connector of the ISO-Adapter socket. The charger cable should now be supplied with power (check the LED of the charger plug is illuminated). If the charger has no power, then **connect the Yellow cable from FASTMUTE **SONIC XL** (PIN 24) with the red cable of the ISO-Adapter.** Test the functionality of the Navi charger cable again.

**Tip: “Auto Power Function”**

Connect the FASTMUTE **SONIC XL** to the **Continuous plus** (Picture 3) to use the Auto Power Function. When the **radio is switched on**, **Sound2Nav** will be activated automatically. After switching off the radio or after the last audio output, all functions remain available for about 45 minutes. After this, the FASTMUTE **SONIC XL** will switch into **quiescent mode**, which will **avoid discharging the battery.**

**The 12V output for Navi-charger cable is also controlled by AutoPower-function.**

If FASTMUTE **SONIC XL** is not used in conjunction with a standard radio, then the **ignition signal can be used to activate the functionality.** The switch-off delay functions in addition to the ignition signal. For this configuration, the +12V continuous plus is connected to PIN 24 (yellow) and, in addition, the +12V ignition plus is connected to PIN 22 (red).

**Tip: “Dynamic Loudspeaker Control”**

To use the **dynamic loudspeaker control** of FASTMUTE **SONIC XL**, the mute signal must be **NOT** connected to the radio. (*flat connectors with/yellow, with/brown stay open*)

Navi announcements comes over front speaker during the rear speaker play i.e. music, news or traffic announcements continue.

During the **output of MP3 audio** through FASTMUTE **SONIC XL** the rear loudspeakers are **automatically activated** (Long-Time-Mode).

**Usage of mutesignal:**

The activity of the mute signal can be adjusted as desired. There is a “jumper” on the board to set the function.

**POSITION 1:** The mute signal is **immediately activated** when an audio signal recognized. (eg if you want to mute the rear speakers during the Navigation announcement)

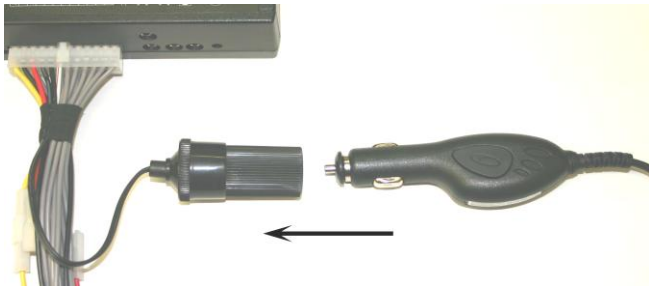
**POSITION 2:** The mute signal is activated **only in the long-time mode.** (eg if the so-called center speaker is installed in the vehicle, you can use this function to mute all speakers they not managed over **FASTMUTE **SONIC XL****)



Because the pin connection for mute is not identical across vehicle types, the flat connectors allow the correct connections to be made.

**Connect cable white (PIN 19) to cable white, or  
Connect cable white (PIN 19) to cable white/yellow.**

(Note: Observe the correct pin connection for the mute signal of the radio. The layout of radio connections can be different from the standard).



**Picture 4:**

Plug the charger cable of the PDA/PNA into the connector socket of the ISO-Adapter cable.

**Tip:**

**12V Socket for the Navi Charger Cable**

The FASTMUTE **SONIC XL** provides a connector socket with a **screened supply (+12V)** for the connection of Navi-charger cables. This power supply is specifically designed for the connection of your vehicle Navi charger cable. Because of the various shapes of the charger plugs, it is possible that, during driving, the plug becomes loose; therefore it is recommended that the **plug should be secured to the socket with adhesive tape**. **The charger cable of the Navi must not be modified. The Navi must not be connected directly (without charger plug) to the socket.**

**Note:** The 12V output for Navi-charger cable is also controlled by AutoPower-funktion of FASTMUTE **SONIC XL**.

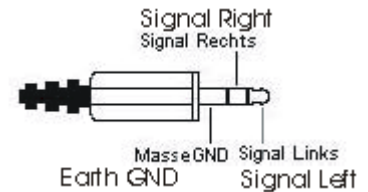
**c. Connecting audio equipment (PNA, PDA, PPC, MP3-Player, etc.)**

FASTMUTE **SONIC XL** is equipped with two 3.5mm jack sockets for connecting audio sources. The two sockets can be found near the ISO-Adapter socket and are marked as **Audio-IN 1 and 2** (suitable jack plugs can be found in our catalog).

If **both audio sources are played simultaneously into both inputs** (e.g. MP3-Player and Navi), both audio signals will be mixed together.

Note that if you supply your own cables and plugs, they must follow the diagram shown here.

**NOTE: Mono-jack connectors (2-core) cannot be used.**



**Picture 5.**

Connect the external audio source (Navi, PDA, PNA, etc.) with a stereo jack cable to an audio input on the FASTMUTE **SONIC XL**.

Suitable jack plug cables for equipment with 2.5mm or 3.5mm connectors can be found in our catalog.



**Warning:** When the integrated **Multiprofile-Bluetooth®** function is used, **only Audio-IN 1** can be used for audio sources. As soon as audio connection 2 is used, then the audio signal from the Multiprofile-Bluetooth® is **deactivated**.

Insert the plug of **BT LINK 1** or **BT LINK 2** in the system connector on the device (see Picture 6 below). For **optimal speech clarity**, the **BT LINK 1** or **BT LINK 2** should be **close to the spokesperson** and **aligned towards the spokesperson**. We recommend installation in the middle of the dashboard close to the rear view mirror.  
**Avoid installing close to the ventilation ducts.**



**Please see Instruction-Manual of *BT LINK 1* or *BT LINK 2***

**Attention:** Please note the current legal position to service mobile phones while driving

#### **d. Connecting the Remote Volume Control (optional)**

An optional **external volume control** can be purchased and connected (see Picture 6 below), into the socket marked: **“Ext. Volume Control”** and used to adjust the volume level to an appropriate level, at any time. The **compact housing** of the volume control can be accommodated inconspicuously in the vehicle and is ideal for vehicles with **variable ambient noise levels** (e.g. Convertibles, Campervans, etc.).

**Warning:** Insert and remove the external volume control plug only when the equipment is switched off!

#### **e. Connecting and Combining with Existing Hands-Free Equipment**

If you already have HFE (Hands Free Equipment) installed in the vehicle, you can easily integrate **FASTMUTE SONIC XL** with it. If the HFE is, likewise, equipped with ISO connections between the Radio and vehicle, then the **FASTMUTE SONIC XL** should be connected between the radio and the HFE. The equipment connection sequence should be:

**Radio → FASTMUTE SONIC XL → HFE → Vehicle cables**

**This sequence ensures that the HFE has priority over the Navi announcements** because the HFE has direct access to the loudspeakers.

If there is already a mute signal connection from the HFE to the radio, this can be **left attached**.

The mute signal from the HFE can also be attached to the **FASTMUTE SONIC XL** to **suppress the output during a telephone call**.

In order to suppress the output from **FASTMUTE SONIC XL** the **free cable** on the DIN-ISO Adapter (Pin 2) is connected to the mute signal of the HFE.

#### **f. Operation with Hifi Amplifier**

If your vehicle has Hifi equipment with an external amplifier, then the audio signal from **FASTMUTE SONIC XL** can be connected to a free input on the amplifier. For this type of connection, use the Audio signal from PIN 17 and 15 and/or PIN 13 and 11 (right front/left front channels) from **FASTMUTE SONIC XL**. These outputs are active only when **FASTMUTE SONIC XL** receives an audio signal. In this way, there is no permanent audio signal to the amplifier and noise is minimised.

**Alternative Installation:** You can also switch the loudspeaker signal using the relay switching stage before the amplifier. With the **FASTMUTE SONIC XL** installed between the radio and amplifier the non-amplified signal is switched by the relay stage, before being passed on to the amplifier.

The output volume from **FASTMUTE SONIC XL** is, in this case, **significantly reduced**.

**Warning:** Check the connection possibilities of the amplifier. Where necessary use a “Line-Adapter“ (also known as “Hi-Low” Adapter), so that the signal level matches the amplifier.

#### **g. “Standalone” operation without radio e.g. helmet loudspeakers on motorcycle**

Instead of the vehicle loudspeakers, up to four separate outboard loudspeakers (4-8 Ohm) can be connected to the relay switch. This configuration allows the use of the equipment completely without a radio and thus also operates with helmet loudspeakers on a motorcycle.

For this application, use the loudspeaker connections PIN 17/15 (Right front), PIN 13/11 (Left front), PIN 9/7 (Right rear) and PIN 5/3 (Left rear).

## 6. Operation and Use

After installing the **FASTMUTE SONIC XL** as described, you can begin to test the functionality.

If you have chosen the continuous plus connection, the **FASTMUTE SONIC XL** switches on automatically when the radio is switched on.

For operation on ignition plus, **FASTMUTE SONIC XL** switches on when the ignition is switched on. When the radio (where the ignition is in the appropriate position) is switched on, the **operating light** (“**EIN/ON**”) next to the ISO connector socket plug will illuminate. The radio should continue to be heard on all loudspeaker channels.

Now, test the output from **FASTMUTE SONIC XL**.

Set the **output volume level** of the audio source (Navi, MP3 etc) to about **60-70%** (The value depends on the audio source) and then start the output. You should now hear the output of the external audio source on **both front loudspeakers**. You should continue to hear the radio/CD on the rear loudspeakers. After continuous **audio output of around 20 seconds**, the rear loudspeakers will switch to the **FASTMUTE SONIC XL** output. The equipment is now in Long Time Mode and the **delay to switch the relay back to radio is extended to about 20 seconds**, to bridge any quiet passages or pauses in the music output.

### Audio Trigger (Threshold) Level Adjustment

The circuit has an **adjustable trigger level**. If **FASTMUTE SONIC XL** is activated without a specific audio signal input, then the trigger level can be changed to reduce the sensitivity. The volume level of the audio source should be set to around **60-80%**. To the left of the ISO-System connector, you will find the trimmer adjustment “**Mute Offset**” for the trigger level. Adjust the trimmer to raise the trigger level (turn to the right), until the mute signal is no longer triggered without an audio input. If the audio output via **FASTMUTE SONIC XL** is interrupted, then the trigger level should be reduced (turn to the left), or the volume of the audio source should be increased.

Use a small screwdriver to adjust the **output level** of the internal volume control or plug in an **external volume level controller** (optional)

→ If the output level of the **FASTMUTE SONIC XL** needs to be slightly louder than the “normal” level, you can fine-tune the levels of the audio sources to the respective audio environments. If the adjustment range of the audio source is not wide enough then you should use an **external volume controller**.

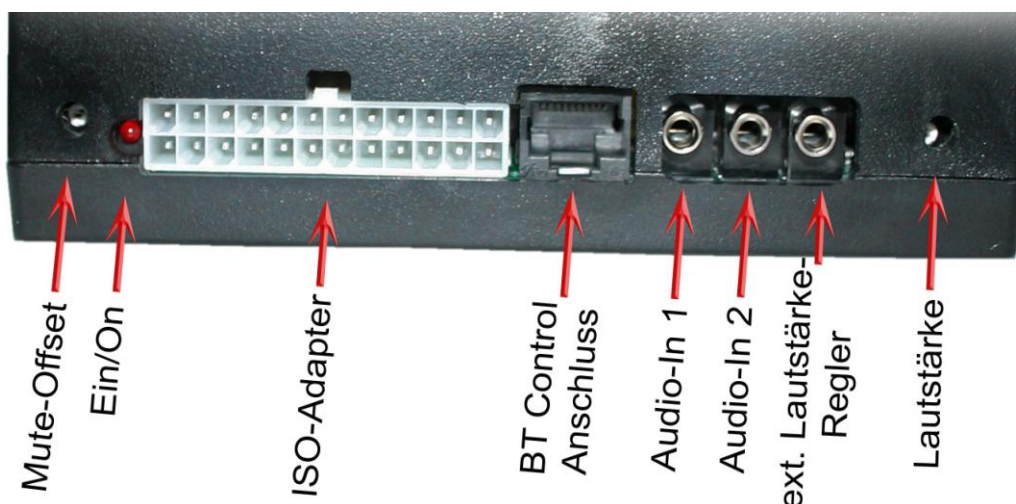
This is ideal for **widely different acoustic levels** e.g. Camperwagons, Transporters, and Convertibles etc.

**After switching off** the radio (where appropriate, the ignition position off), the **FASTMUTE SONIC XL** remains active for about 40 minutes. A new switch on **or** audio output signal resets the delay time and the equipment remains active for a further 40 minutes. If the **radio is switched off during the drive**, **FASTMUTE SONIC XL** continues to function without limits until the end of the switch-off delay time or another audio signal is recognised.

When the **switch-off delay time has expired**, then the equipment goes into quiescent mode to **avoid draining the battery**.

→ **Check** that the **FASTMUTE SONIC XL** power indicator switches off after about 40 minutes as programmed.

## 7. Wiring Diagram, Pin Connections, Block Diagram



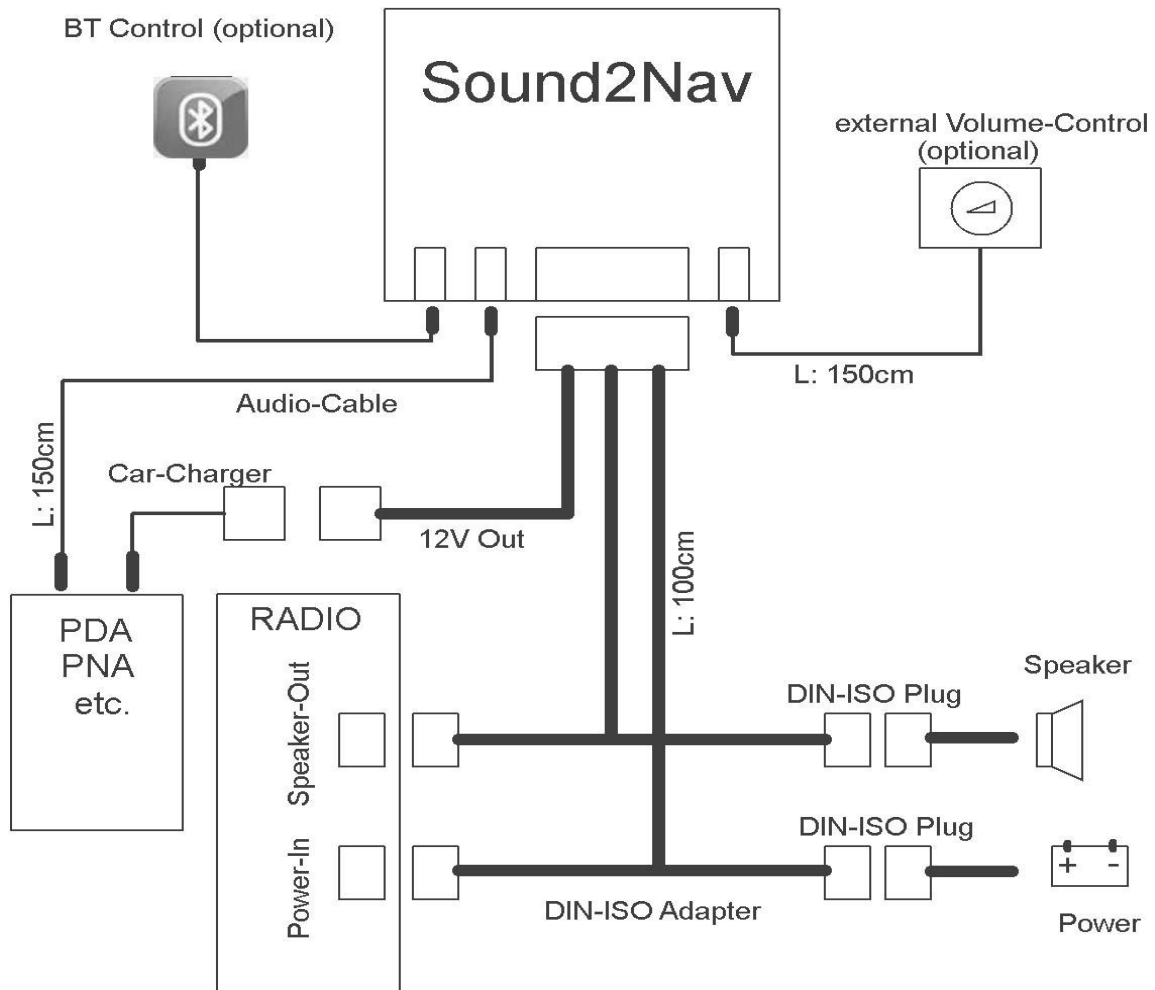
**Picture 6:**  
Connections and  
Operating Parts



## Connections

- 1: not used
- 2: External Mute-Input (e.g. for Mute signal from Hands Free equipment)
- 3: Output Loudspeaker Left Rear – (to Loudspeaker)
- 4: Input Loudspeaker Left Rear – (from Radio)
- 5: Output Loudspeaker Left Rear + (to Loudspeaker)
- 6: Input Loudspeaker Left Rear + (from Radio)
- 7: Output Loudspeaker Right Rear – (to Loudspeaker)
- 8: Input Loudspeaker Right Rear – (from Radio)
- 9: Output Loudspeaker Right Rear + (to Loudspeaker)
- 10: Input Loudspeaker Right Rear + (from Radio)
- 11: Output Loudspeaker Left Front – (to Loudspeaker)
- 12: Input Loudspeaker Left Front – (from Radio)
- 13: Output Loudspeaker Left Front + (to Loudspeaker)
- 14: Input Loudspeaker Left Front + (from Radio)
- 15: Output Loudspeaker Right Front – (to Loudspeaker)
- 16: Input Loudspeaker Right Front – (from Radio)
- 17: Output Loudspeaker Right Front + (to Loudspeaker)
- 18: Input Loudspeaker Right Front + (from Radio)
- 19: Mute-Connection for vehicle radio (not necessary with Dynamic Loudspeaker-Control)
- 20: Screened Supply Output **Earth/GND** for Navi-Charger Socket
- 21: Screened Supply Output **12V/DC** for Navi-Charger Socket
- 22: Ignition/Start (not necessary with Auto Power-Function)
- 23: Input Supply Power **Earth/GND** from vehicle supply
- 24: Input Supply Power **12V/DC** from vehicle supply

## Block Diagram



**Picture 7:** Connection Schematic and Parts

## 8. Technical Data

- Operating voltage: 10-18 V/DC
- Output capacity: 15W Sine wave (DIN45500)
- Minimum volts input for mute signal recognition: 80mV
- Minimum input for maximum loudspeaker output: 200mV
- Protected against polarity reversal with plug-in fuse: 3.15A
- Temperature range: -35°C to +85°C
- Protected against EMV noise up to +/-300V
- Audio amplifier protected against short circuit and over temperature
- Galvanically-separated audio inputs
- Vehicle loudspeakers. 4 units each 4 Ohm (see Connection diagram)
- Max. Load for the relay stage per channel: 30 Watt (Sine) Radio power (or 60 Watt RMS)
- Mute signal: 12 Volt Radio-Mute-Signal max.10mA switched to Earth/GND
- Quiescent current: < 0,1mA
- Load capacity of the power output (Connection 20/21): **max. 1A at 12V**
- 3.5mm jack connectors for audio signals and external volume controller
- Dimensions: 86x147x35
- Conforms to RoHs

## 9. Fault Finding

Problem	Possible Causes	Solution
Equipment display not lit	<ul style="list-style-type: none"> <li>-Supply voltage missing on PIN24</li> <li>-Radio not switched on</li> <li>-Equipment fuse blown</li> <li>-Radio signal not recognised</li> </ul>	<ul style="list-style-type: none"> <li>-Check the voltage on PIN24 e.g. Test function of the 12V socket with charger cable</li> <li>-Switch on radio</li> <li>-Replace plug in fuse on the circuit board</li> <li>-Connect the ignition plus signal in addition</li> </ul>
Equipment display does not shut down	<ul style="list-style-type: none"> <li>-Switch off delay not working (+- 40min.)</li> <li>-Noise in audio signal</li> </ul>	<ul style="list-style-type: none"> <li>-Switch off radio</li> <li>-Switch off audio source</li> <li>-Switch off ignition (PIN22)</li> <li>-Increase threshold switching value</li> </ul>
No audio output through <b>FASTMUTE SONIC XL</b>	<ul style="list-style-type: none"> <li>-Volume too low</li> <li>-Threshold switching value too high</li> <li>-Missing audio signal</li> <li>-Incorrect connector cable</li> </ul>	<ul style="list-style-type: none"> <li>-Increase volume of the audio source</li> <li>-Reduce threshold trigger value (Turn the potentiometer a little to the left)</li> <li>-Check the audio signal source with headphones</li> <li>-Use Stereo-connector cable (3 cores)</li> </ul>
Switchover and mute signal happens without an input audio signal	<ul style="list-style-type: none"> <li>-Threshold trigger value too low</li> <li>-Noisy audio signal</li> </ul>	<ul style="list-style-type: none"> <li>- Increase threshold trigger value (Turn the potentiometer a little to the right)</li> <li>-Check battery of audio source</li> </ul>



## 11. Options, Accessories



### **BT LINK 1**

Multiprofil-Bluetooth® - Panel

Make FASTMUTE **SONIC XL** to a perfect **handsfree unit**. It is also possible to **play music** from a **mobile phone**, **MP3-players**, etc. transmitted via Bluetooth® directly to the vehicle speakers.

On the **illuminated buttons** can control the **MP3-player** and **phone functions** of the mobile phone.

**Built-in microphone** with voice processor, echo and noise suppression for optimal voice quality.



### **BT LINK 2**

Multiprofil-Bluetooth® - Panel with Touch-Display

Additional to the functions of **BT LINK 1** offers **BT LINK 2** everything what frequent phone calls in the car make more comfortable.

- Download of **phonebook-entries** and vCard's from mobilephone
- **Dual-Mode** for parallel operation of two mobile phones (eg. for passenger)
- supports the **voice recognition** function of the mobile phone
- plantext menu assistance via illuminated **touch display**
- **status indicator** from mobile phone (battery capacity, network quality, SMS)
- range of different settings (eg. microphone sensitivity, volume, pairing behaviour, voice processor, menu language, lighting, contrast, etc.)



### **External Volume-Control**

The volume control allows to change the playback volume of FASTMUTE **SONIC XL** by an external body.

Especially in **ambient with changing noise** (such as cabriolets, campers or vans) it is ideal, because the volume of the navigation announcements or other audio sources can always be tailored to **personal needs**.

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