

NAVIMUTE-BOX

The professional mute

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Troubleshooting Guide

MN box does not react to Audio input. Please check the following:

- ♦ **No power on RED Constant 12V wire:**
 1. Check that the bullet connectors on the supply wires are properly connected. The constant supply wires are the red and black wires.
 2. Check for a blown fuse on the Audio2Car harness or in the car fuse-box.
- ♦ **No power on BLUE Ignition wire:** Ignition input in 24 pin connector is used to switch On and Off the box.
 1. Check that the bullet connectors on the supply wires are properly connected. The Ignition supply wires are the blue and black wires.
 2. Check for a blown fuse on the Audio2Car harness or in the cars fuse-box.
 3. The car may require an alternative ignition source. See installation step 3.
- ♦ **Audio source volume too low to be sensed by MN box:**
 1. Turn up volume of Audio source.
 2. Set MN box to high sensitivity by setting DIP switch 6 On.

MN box does not turn off when the key is removed from the ignition barrel: Ignition input in 24 pin connector is used to switch On and Off the MN box. Please check if a real ignition source is connected to the blue wire in the 24 pin connector. There should be no voltage on the blue wire when there is no key in the ignition. See installation step 3.

Not all speakers are muted. The MN box can only mute the front speaker channels. It does not have a mute-output and can therefore not activate additional boxes on Audio2Car cable. If a full Mute is preferred please consider using our SMART-BOX part nr: "MS1" instead. For further troubleshooting please see the instruction sheet for the Audio2Car cable.

No radio sound due to MN box constantly muting. The MN box may constantly be sensing sound on the Audio input causing the box to mute constantly. Please check the following:

1. If DIP switch 6 is ON try setting it OFF to lower the sensitivity of the audio sense circuitry.
2. The cable connecting the Audio source may pick up too much noise. Please try another cable with better screen.
3. If the Audio source is powered from another source than the MN box please make sure the supply is taken from the Audio2Car cable to avoid ground loop noise.

Audio is chopped or falling out at high speaker output. The chosen volume setting may be activating the amplifiers overload protection.

1. Turn down volume on Audio source
2. Select a lower base volume on the MN box using DIP switch 7 & 8.

Audio is chopped or falling out at low speaker output.

1. Try increase volume of the Audio input to ensure activation of Audio sense.
2. Try increase audio sense sensibility by switching DIP switch 6 ON.

Excessive noise when using Audio source. Please check the following:

1. Check all connection between MN box and Audio source. Any bad connection will give excessive noise.
2. Check volume setting on MN box. Always select the lowest acceptable base volume on the MN box.
3. The cable connecting the Audio source may pick up too much noise. Please try another cable with better screen.
4. If the Audio source is powered from another source than the MN box please make sure the supply is taken from the Audio2Car cable to avoid ground loop noise or insert ground loop filter such as item nr. XA068.

MN box sound is in the wrong speakers. Sound should normally be in one or both front speakers. If sound in rear speakers is preferred Audio2Car adaptor AA005 can be used. For further troubleshooting see the instruction sheet for the Audio2Car cable.

Radio will not turn on or not work properly after installation. See the instruction sheet for the Audio2Car cable.

UK/US

Installation instruction

"MN" NAVIMUTE-BOX for the Audio2Car cable range



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Product description

“MN” NAVIMUTE-BOX for the Audio2Car cable range

The NAVIMUTE-BOX item no. “MN” is the perfect solution for Navigation Speech in the car speakers. It is compatible with the Audio2Car cable range. The build-in stereo amplifier enables Speech output in maximum 2 speakers channels, for accessories with only a low level Line-out.

Speaker-function: This is achieved by using the relays in the NAVIMUTE-BOX, the radio sound is muted and the sound from the Navigation unit or smart-phone is sent via the build-in amplifier through the cars speakers. This way you will achieve a sound without interference from the car radio.

Power supply of the NAVIMUTE-BOX and NAVIMUTE-BOX audio sources: The NAVIMUTE-BOX is supplied directly from the Audio2Car cable. The optional NAVIMUTE-BOX accessories gives several ways of supplying and charging the Navigation unit or Smart-phone from the Audio2Car cable. This way you can easily supply the NAVIMUTE-BOX and connected Audio sources. This means that cutting of the cars wiring loom is minimized.

Mute function: The Navimute can mute left, right or both front speakers. If sound in rear speakers is preferred Audio2Car adaptor AA005 can be used.

Audio inputs The “MN” box has one audio input with Audio sense and is based on a balanced circuitry for improved noise rejection. The Audio source is connected via a 3.5mm Jack connector.

Aux integration: The NAVIMUTE-BOX has no connection to the 4 pin AUX connector on the Audio2Car harness. If you do not want music to be played by the build-in amplifier then a separate Kram Aux solution should be used.

Technical Specifications

General Description:	CE approved, Amplified mute-box with 2 DPDT relays, Audio sense, and holes for zip-ties.
Amplifier Description:	Highly efficient 1x15W Class D amplifier with 4 step volume control and overload protection. Low level balanced Jack input circuits with Audio sense.
Voltage supply range:	10-16V DC. Protected against reversed power supply. Value below are based on a 12V DC supply.
Load dump protection:	Load dump protected according to ISO 7637-2:1990 Pulse 5.
Current usage:	<2 mA (passive) / 25 mA (stand by) / 2 A (peak power)
Minimum Fuse size:	3 Amp for constant supply, 1 Amp for Ignition supply
Maximum Fuse size:	7 Amp for constant supply, 5 Amp for Ignition supply
Maximum radio output pr. speaker:	90 Watt RMS / 125 Watt music power @ 4 Ohm (3 Amp relays)
IP class:	IP51
Size :	L 130 x W 85 x H 9 mm

Installation description

1st: Install the Audio2Car cable according to the Audio2Car instruction sheet.

2nd: Connect the MN box to the 24 pin connector on the Audio2Car cable with the green, white, gray, and purple speaker wires.

3rd: Check ignition source. If a true ignition source exists in the Audio2Car harness the blue ignition wire is as standard connected to this position. If no ignition source is available in the harness the blue ignition wire is connected to the constant 12v source with a bullet connector. IGNIBOX item no. “I” can be inserted to create an artificial ignition source or the blue ignition wire can be disconnected from the red constant 12v and manually connected to an ignition source found elsewhere.

4th: Connect the Audio source to the NAVIMUTE-BOX using the jack connector. This input is primarily designed to handle navigation speech.

5th: Choose appropriate dip switch settings.

The MN box includes 8 dip switches to choose preferred function. Always choose the lowest volume setting of the MN box where the Audio source can reach distortion to avoid excessive noise. Dip switch function can be seen at the bottom of the page.

Speaker selection:

Sound in left front speaker:	DIP 3 = On, DIP 4 = On
Sound in right front speaker:	DIP 3 = On, DIP 4 = Off
Sound in both front speakers:	DIP 3 = Off

6th: Do a function check. When the Audio source and Audio2Car cable is installed correctly Audio should be heard in the selected speaker channels.

For troubleshooting see troubleshooting guide on last page.

Function of DIP switches:

DIP 1 = No function		
DIP 2 = No function		
DIP 3 = Primary input output mode:	On: Single speaker mode	Off: Two speaker mode
DIP 4 = RHD / LHD (in single speaker mode):	On: Right hand drive	Off: Left hand drive
DIP 5 = No function		
DIP 6 = Audio sensitivity for Audio inputs:	On: High sensitivity	Off: Low sensitivity
DIP 7 = Amplifier volume:	On: + 5 dB	Off: No dB is added
DIP 8 = Amplifier volume:	On: + 10 dB	Off: No dB is added

Always choose the lowest volume setting on MN box where the Audio source can reach distortion to avoid excessive noise.

