

**CAUTION**

**DO NOT ALLOW CABLES TO BECOME ENTANGLED IN SURROUNDING OBJECTS**

Cables or wiring that obstruct or get caught on places such as the steering wheel, shift lever, brake pedals, etc. can be extremely hazardous.

**DO NOT DISASSEMBLE OR ALTER**

Doing so may result in an accident, fire, or electric shock.

**DO NOT INSTALL IN LOCATIONS WITH HIGH MOISTURE OR DUST**

Moisture or dust may result in product failure.

**HAVE THE WIRING AND INSTALLATION DONE BY EXPERTS**

The wiring and installation of this product requires special technical skills and experience.

**USE ONLY SPECIFIED ACCESSORY PARTS**

Use of other than specified parts may damage product internally.

**FOLLOW THE OPERATIONAL AND INSTALLATION MANUALS.**

YOU SHOULD READ AND FAMILIARIZE YOURSELF THOROUGHLY WITH THE FOLLOWING INFORMATION PRIOR TO INSTALLING AND USING THIS UNIT. IN ADDITION, YOU MUST CAREFULLY READ AND FOLLOW THE INSTALLATION SCHEMATICS AND INSTRUCTIONS FOR THE PRODUCT AND THE VEHICLE IN WHICH IT IS BEING INSTALLED. FAILURE TO FOLLOW INSTALLATION INSTRUCTIONS MAY DAMAGE THE PRODUCT AND THE VEHICLE, WILL VOID THE PRODUCT WARRANTY, AND MAY VOID THE VEHICLE WARRANTY.

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CANNAV



**Purpose**

The SoundGate CANNAV is a multi-function signal generator that will provide an audible tone for your vehicle's parking sensors after the removal of a factory radio, as well as the following outputs via the CAN bus: VSS, Reverse, +12V Ignition and Illumination.



**The CANNAV works in the following vehicles:**

<b>BMW</b>	
1-Series	2005-Present
3-Series	2005-Present
5-Series	2003-Present

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[www.soundgate.com](http://www.soundgate.com)

Rev 20080206

If you experience problems, call SoundGate Technical Support at 800-256-0808, or email us at [sgtech@soundgate.com](mailto:sgtech@soundgate.com).

**Be sure to ask your autosound specialist about these other exciting SoundGate products...**

- Auxiliary Input Interfaces and Docking Stations which allow you to input audio from MP3 Players, DVD/Video, Satellite Radio, and more to OEM and aftermarket car audio systems
- High-performance Radio Replacement
- Interfaces for seamlessly integrating new receivers or CD players into OEM audio systems
- Competition-Grade Interfaces for adding amplifiers
- Remote Audio Control Interfaces that let you control aftermarket receivers and CD players from your factory rear seat, or steering-wheel mounted audio controls.
- And many others!

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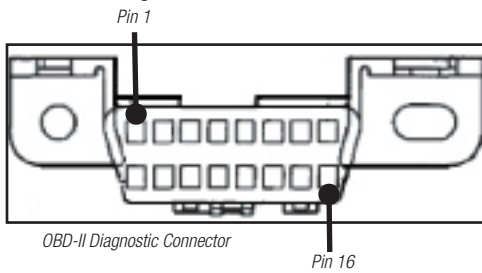
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## OPERATION

**STEP 1** Gain access to the onboard diagnostic connector (OBD-II) of your vehicle beneath the steering column. Connect the CANNNAV wiring harness to the CANNNAV module. Connect, in order, the black, white, blue, and red wires to the OBD-II diagnostic plug. The remaining wires are the CAN signal outputs for aftermarket devices and speaker outputs for the front and rear sensors. Please use the chart below for detailed wiring information.

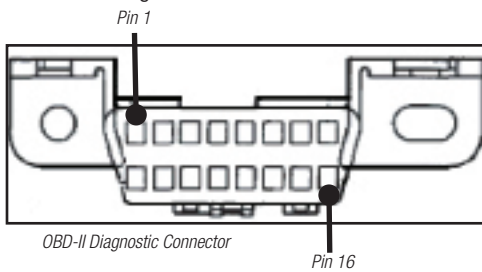


Red	Connect via a 1 ampere fuse to a +12V supply
Black	Connect to a good chassis ground point
White	CAN HI Connection
Blue	CAN LOW Connection
Green	Speed Signal output (+12V pulsing 1Hz = 1mph approx.)
Purple	Ignition ON output, +12V when ignition is switched on
Orange	Lights ON output, +12V when side/head lights are on
Pink	Connect to optional Front Speaker (Black wire)
Brown	Connect to Rear Speaker (Red wire) and Reverse Output (+12V)
Yellow	Connect to Rear Speaker (Black wire) and optional Front Speaker (Red wire)

Mount the included speaker in the front or rear of the vehicle, respective to the sensor it is representing. A single speaker is provided; however, you may add a second speaker for the front parking system, if necessary.

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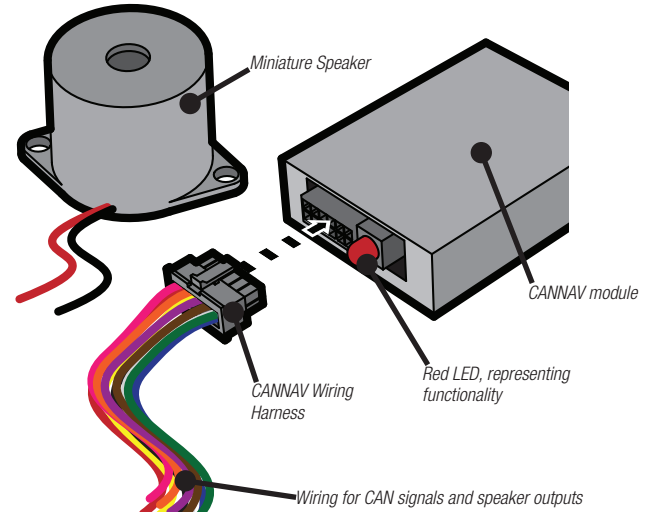


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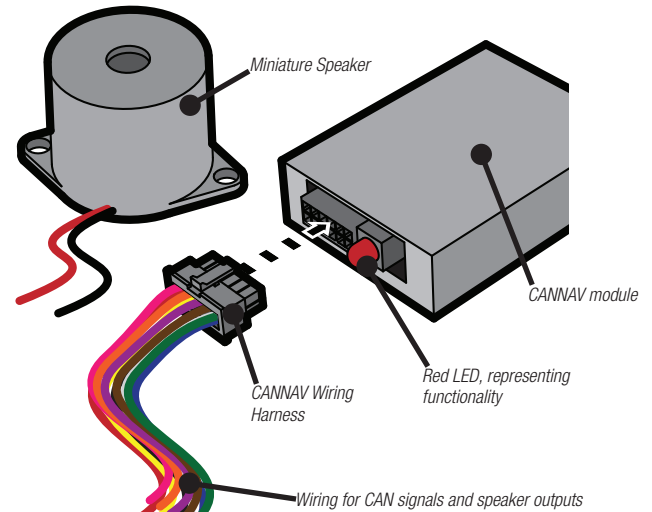
**STEP 2** The CANNNAV will turn on automatically if CAN activity is present. The main LED on top of the device will flash constantly when a CAN signal is properly detected. If a solid light is shown, the module is functioning, but cannot identify the subject vehicle. If there is no indication from the main LED, then the interface is either wired incorrectly, or there is no CAN activity present. Make certain that all electrical connections are correctly wired and that the CAN HI and CAN LOW wires have not been reversed. If the problem remains, check for a known-good +12V supply at the interface connector, otherwise, please seek technical assistance.



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