

## What Is Included

- A 506T Audio Sensor
- A Wiring Interface Harness
- An Audio Microphone

## Product Description

The 506T Audio Sensor is a low-current device that provides an added level of protection to an existing security system by detecting sounds that have the acoustic signature of breaking glass or metal-to-glass impacts. It consumes less than 1 mA of current.

The 506T Audio Sensor can be configured to interface with the following different types of DEI and non-DEI vehicle security systems:

- The 506T can interface with the shock sensor port of DEI security systems with external shock sensors, using the wiring interface harness supplied with the 506T.
- For most DEI security systems with on-board shock sensors, the 506T harness can be plugged directly into the auxiliary sensor port of the security system.
- For other DEI (and non-DEI) security systems that do not have sensor ports, the 506T can be hard-wired to a negative instant trigger sensor input.

## Installation Instructions

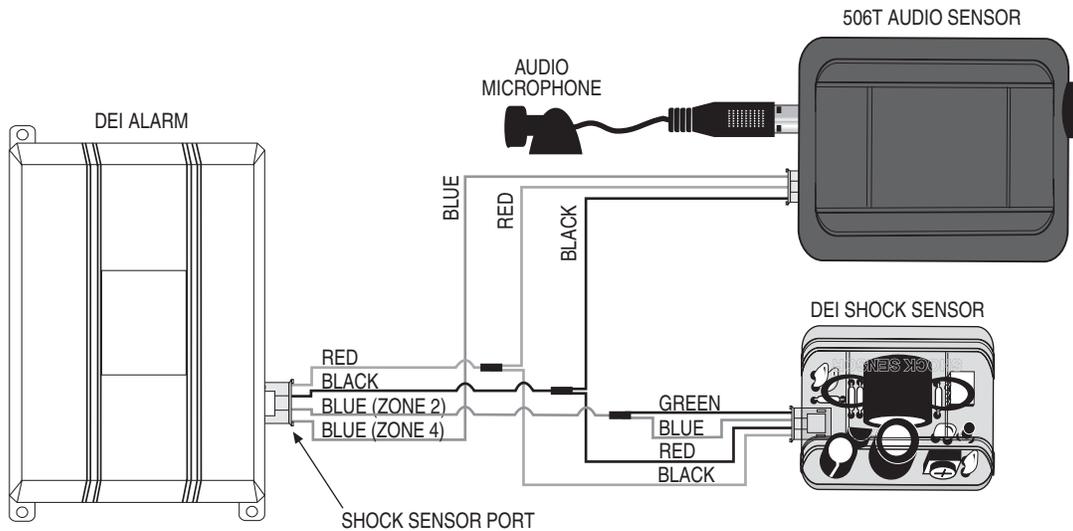
To install the 506T Audio Sensor, choose the appropriate configuration from one of the following three wiring guidelines. You will also need to refer to the *Table of Zones* section of the security system's installation guide to determine the zone that the audio sensor will be reporting on. (The 506T Audio Sensor can be configured so that the audio sensor will report on the same, or a different zone than the shock sensor.) After the 506T Audio Sensor has been installed, make sure to complete the steps outlined in the *Adjustment and Testing* section of this guide.

**Adding a 506T to a DEI system that has an external shock sensor and reports separate zones on the shock sensor port**

For DEI systems with separate Zone 2 and Zone 4 inputs (refer to the *Table of Zones* section of the alarm system's installation guide), refer to the configuration diagram below and follow these steps:

1. Plug the microphone into the 506T.
2. Plug the 3-wire audio sensor harness (with the blue, red, and black wires) into the 506T.
3. Plug the 4-wire main harness (with the red, black and two blue wires) into the shock sensor port of the alarm system.
4. Plug the remaining 4-wire shock sensor harness (with the green, blue, black and red wires) into the DEI shock sensor.
5. Adjust and test the audio sensor before mounting.

The shock sensor will report Zone 2, and the 506T will report Zone 4. (Refer to the *Table of Zones* section of the alarm system's installation guide.)

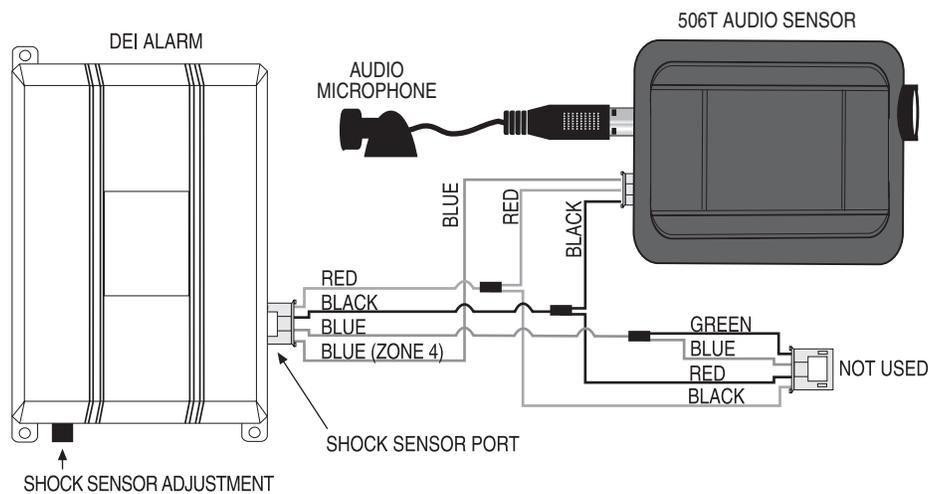


### **Adding a 506T to a DEI system with a shock sensor port and an on-board shock sensor**

To add a 506T to a DEI system with a shock sensor port and an on-board shock sensor, refer to the configuration diagram below and follow these steps:

1. Plug the microphone into the 506T.
2. Plug the 3-wire audio sensor harness (with the blue, red, and black wires) into the 506T.
3. Plug the 4-wire main harness (with the red, black and two blue wires) into the shock sensor port of the DEI alarm.
4. Cut or tie remaining harness wires.
5. Adjust and test the audio sensor before mounting.

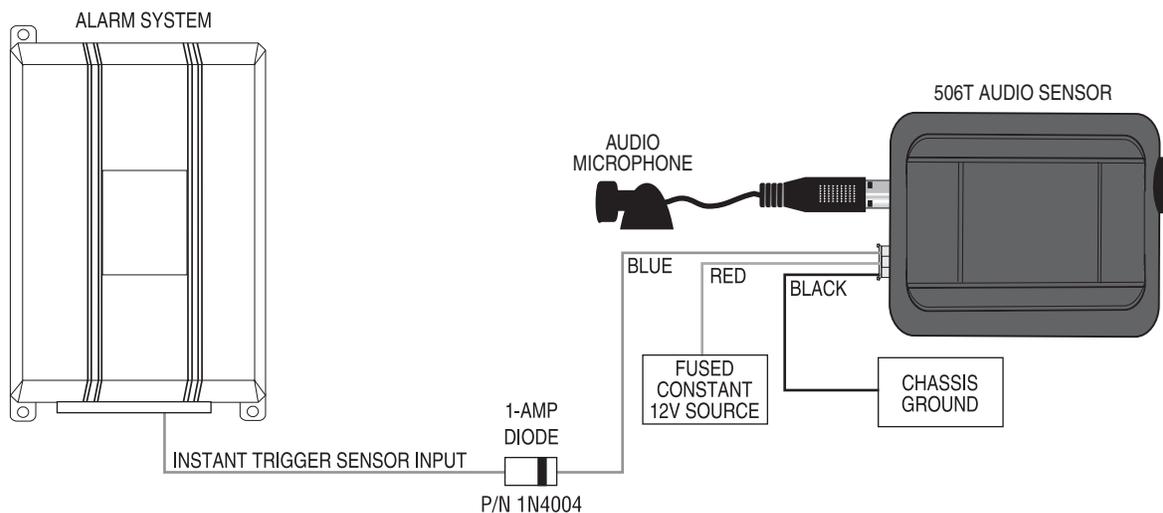
In most DEI systems with on-board shock sensors, the on-board shock sensor will report Zone 2, and the 506T will report Zone 4. (Refer to the *Table of Zones* section of the alarm system's installation guide.)



**Adding a 506T to a security systems without a shock sensor input or to a DEI system with an external shock sensor that does NOT report separate zones on the shock sensor port**

To add a 506T to these types of alarm systems, refer to the configuration diagram below and follow these steps:

1. Plug the microphone into the 506T.
2. Cut off and discard the 4-wire main harness (with the red, black and two blue wires).
3. Connect the end of the cut blue wire that is still connected to the 3-wire audio sensor harness (with the blue, red, and black wires) to an instant trigger sensor input of the alarm system.
4. Connect the end of the cut red wire that is still connected to the 3-wire audio sensor harness to a fused constant (+)12V source.
5. Connect the end of the cut black wire that is still connected to the 3-wire audio sensor harness to chassis ground.
6. Adjust and test the audio sensor before mounting.



### Adjustment and Testing

**NOTE:** Before testing, all the doors and windows must be shut. If a window is open, the acoustics of the vehicle interior change dramatically. The customer should be informed of this. Also remember that DEI security systems cannot trigger until three seconds after they are armed.

A single tap of a key or a coin should not trigger the sensor, since it is designed to react to multiple, closely-grouped sounds. A sharp rap with a set of keys should trigger the sensor. If the sensitivity needs to be increased, turn the adjustment screw an eighth of a turn and retest. If the sensitivity needs to be decreased, turn the adjustment screw counter-clockwise and retest.