



AUDIOVOX®
ELECTRONICS CORP.

Model AA-940
Two Button Code Learning
Remote Alarm With Starter Inhibit
And Two Stage Shock Sensor
Installation & Operating Manual

What Is Required For This Installation:

- 1) A working knowledge of automotive mechanical and electrical systems.
- 2) Electric Drill, 1/8" Drill Bit and (2), # 8 x 3/4" Sheet Metal Screws: To drill the mounting holes and secure the Siren Assembly to the vehicle.
- 3) Electrical Tape: For insulating your wiring connections.
- 4) (4) 6" Cable Ties: For securing the Starter Inhibit Relay and routing the harness under the hood and inside the vehicle's underdash area.

Installation Of The Major Components:

Siren:

Mount the Siren/Control Module in the engine compartment. The assembly should not be mounted within 8" of any hot surface. Also consideration should be made to keep the unit away from any moving parts, such as the steering shaft or knuckle, as this will interfere with safe operation of the vehicle. Use the siren bracket as a template and mark the two mounting holes with a pencil or scribe. Drill the two holes with a 1/8" drill bit and secure the siren assembly to the location with two #8 screws.

LED Assembly:

Mount the LED assembly inside the vehicle with consideration to maximize visibility from outside the vehicle while not causing distraction to the operator of the vehicle. The assembly can be mounted using the double stick tape by peeling the protective backing and placing on a clean flat surface. For mounting on uneven surface or area's exposed to direct sunlight where heat may effect the double stick tape, the screw provided can be used to further secure the LED assembly.

Starter Inhibit Relay:

Mount the starter inhibit relay near the ignition switch harness under the dashboard. You will have to locate and cut the low current starter wire later in the installation. Secure the relay in a convenient location with a cable tie or tape to existing harness. Be certain the relay's wires are accessible for making connections later during the wiring section of this installation.

Wiring:

RED FUSED WIRE: + 12 VDC CONSTANT BATTERY SOURCE

Connect the red fused wire to a + 12 VDC constant battery source capable of supplying 15 amps of current. This wire provides power to the unit as well as power for the parking light output.

BLACK WIRE: CHASSIS GROUND

Connect this wire to a solid, metal part of the vehicle's chassis.

Do not confuse this wire with the thin black antenna wire that exits the control module independently.

YELLOW WIRE: + 12 VDC IGNITION SOURCE

Connect this wire to a source that is hot when the key is in the on and crank positions, and off when the key is in the off position.

WHITE WIRE : + 12 VDC PULSED PARKING LIGHT OUTPUT (10 AMP MAX)

This wire is provided to flash the vehicle's parking lights. Connect the white wire to the positive side of one of the vehicle's parking lights.

ORANGE: 300 mA GROUND OUTPUT WHEN ARMED - N. C. STARTER DISABLE

This wire is provided to control the starter cut relay. Connect the orange wire to terminal 86 of the relay. Connect relay terminal 85 to an ignition wire in the vehicle that is live when the key is in the on and crank positions and off when the key is in the off position. (This is where the yellow wire from the alarm should be connected).

Cut the low current starter solenoid wire in the vehicle and connect one side of the cut wire to relay terminal 87A. Connect the other side of the cut wire to relay terminal 30.

NOTE : This is a normally closed starter cut arrangement and when power is removed from the security system, the starter disable feature will not operate, allowing the vehicle to start. Audiovox does not recommend using the Orange wire to interrupt anything but the starting circuit of the vehicle.

TWO PIN RED & BLACK: LED Connector

Route the two wires from the previously mounted LED to the two pin connector of the module.

Operation:

Code Learning:

In case the transmitter is lost, or you require additional transmitters, the code of the transmitter must be programmed into the receiver before it is capable of responding to the new or additional transmitters. Please perform the following procedure:

- a) With the system disarmed, turn the ignition switch on then off 8 times, ending with the key on. After 4 seconds, the siren will chirp 3 times indicating the unit is ready to accept programming of up to 3 transmitters.
- b) Within 8 seconds, press any button of the transmitter to be programmed.

NOTE: If no transmitter button is activated, or the ignition switch is turned off, the unit will exit the program mode. Also, any time the program mode is entered and any transmitter is activated, all other transmitters will be erased. During the program sequence, you must have all transmitters present to be programmed that you wish to operate and activated one at a time during the program sequence. Each transmitter activated will cause the siren to chirp, once for the first, twice for the second and three times for the third. If a fourth is attempted to be programmed, the first will be erased and the fourth will move the other two forward in the program.

Arming The System:

With the system disarmed, press the arm/disarm button once. The siren will chirp once, and the LED will begin to flash and the engine starter will be disabled. 5 seconds after the chirp, the system will be completely armed. During the armed mode, the unit can be triggered by shock/vibration, or a change in voltage such as the interior light turning on.

Arming With The Two Stage Shock Sensor Bypassed:

With the system disarmed, press the arm/disarm button once, the siren will chirp once. Within 5 seconds, press button 2 one time. The siren will emit one short chirp indicating the system is set and will be fully armed in 5 seconds with the shock sensor bypassed for one arming cycle. In this mode, the system cannot be triggered by the shock sensor. The only means of triggering is the voltage drop sensor.

Arming With The Voltage Sensor Bypassed:

With the system disarmed, press the arm/disarm button once, the siren will chirp once. Within 5 seconds, press button 2 two times. The siren will emit one long chirp indicating the system is set and will be fully armed in 5 seconds with the voltage sensor is bypassed. In this mode, the system cannot be triggered by a change in voltage. The only means of triggering is the shock sensor.

In The Triggered Mode:

When the system is armed, if the voltage drops, or a strong vibration is presented to the protected vehicle, the unit will trigger. If a lesser vibration is presented to the vehicle, the shock sensor will emit a few warn away chirps. When triggered, the siren will sound for 30 seconds then reset and continue to protect your vehicle. During the triggered mode, the unit can be reset by disarming with the transmitter or by use of the override method described later in this manual.

Disarming The System:

With the system armed, press the arm/disarm button once, the siren will chirp two times indicating the system is disarmed. The LED will turn off and the starter disable relay will be enabled allowing the vehicle to start. If the siren chirped four times, this indicated that the system was triggered in your absence.

Panic And Car Finder:

The system offers the ability to activate the system from within the full operating range of the transmitter. This is useful in a panic situation where you may want to call attention to the vehicle to attract attention, or in a crowded parking lot to locate your vehicle. To activate the Panic/Car Finder Mode, Press and hold the Arm/Disarm button of your transmitter for 3 seconds. The siren will sound and continue for 30 seconds or until the arm/disarm button is activated a second time. When the panic/car finder mode is allowed to time out, (30 seconds), the unit will enter the armed mode.

Adjusting The Shock Sensor Sensitivity:

Within 10 seconds after disarming, press and hold both buttons of the transmitter until the unit emits a long chirp. This indicates the unit is ready to accept adjustments of the shock sensor. Press button 2 of the transmitter to adjust the sensitivity level. The low tone, # 1, is the most sensitive setting, the highest tone # 8 is the least sensitive. As you cycle through the tones, hit the bumper or strong metal part of the vehicle to test the threshold level of the sensor. When you are satisfied with the setting, press the arm/disarm button once time to lock in the adjustment. **NOTE:** If there is no transmitter activity during this mode for 20 seconds, the unit will exit the program mode and return to the disarmed mode.

The Unit Automatically Enters Voltage Trigger Delay Setting:

Once you lock in the shock sensor adjustment, described above, the unit automatically enters the voltage sensor trigger delay setting mode. There are two settings available for this feature. Press button 2 once to change the setting. If the siren emits one tone, the unit is set to react to a change in voltage 8 seconds after arming. If the siren emits two tones, the unit is set to react to a change in voltage 4 minutes after arming. This adjustment is useful for vehicles with after fans or delayed lighting circuits that remain on for a period more than 8 seconds after the vehicle is turned off and the door is closed. In these situations the unit should be set to two chirps, trigger capable 4 minutes after arming. If the vehicle has no after fan, or delayed lighting system, then the unit can be set for 1 chirp, trigger capable 8 seconds after arming. After your selection is made, press the arm/disarm button one time to lock in the setting. **NOTE:** If there is no transmitter activity during this mode for 20 seconds, the unit will exit the program mode and return to the disarmed mode.

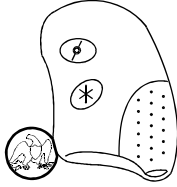
Emergency System Override:

If in the event the transmitter becomes inoperative while the system is armed, a method of overriding the alarm is required to allow you to start the vehicle.

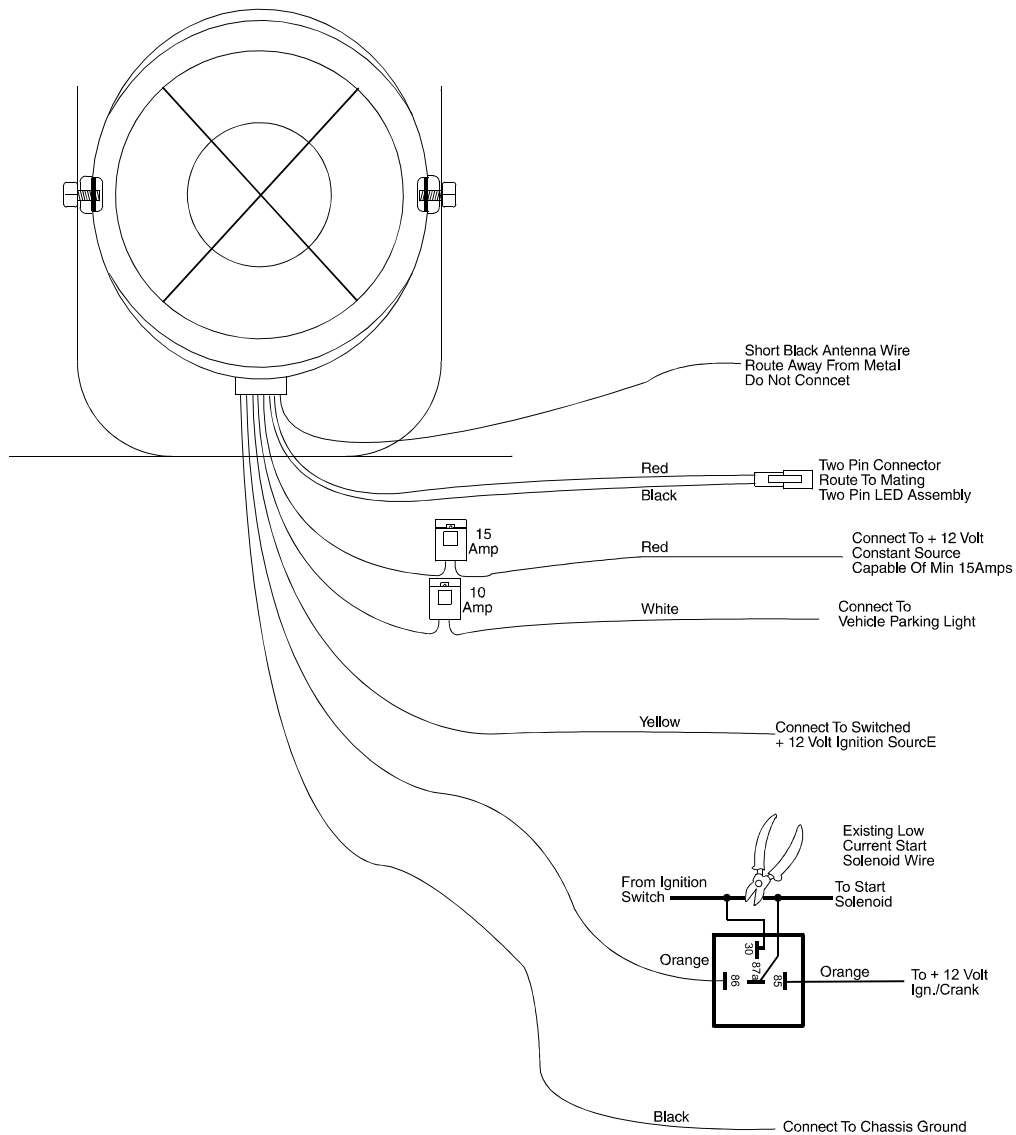
To override the system without the keychain transmitter:

- a) Open the vehicle door, the alarm system will sound.
- b) Turn the ignition key from off to on five times ending with the key on. After 5 seconds the unit will disarm.

Transmitter:



The two transmitters provided with your unit have a small 12 volt battery that will require replacement if the transmitter range seems to decrease, or if the unit stops working. To replace the battery, using a coin or flat screwdriver blade, carefully pry apart the transmitter case top from bottom shown. Properly dispose of the discharged battery and replace with a GP-23 or equivalent 12V battery. Carefully snap the two transmitter halves together paying attention to proper alignment so as not to damage the LED, or transmitter printed circuit board.



NOTE:

Before returning this product to the store, please call 1-800-645-4994 for any questions you may have on installation or customer service.

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