

CODE ALARM

PROFESSIONAL SERIES

Keyless Alarm Installation Guide

ca 3051

BEFORE YOU BEGIN

PROFESSIONAL INSTALLATION STRONGLY RECOMMENDED

Installation Precautions:



Roll down window to avoid locking keys in vehicle during installation



Avoid mounting components or routing wires near hot surfaces



Avoid mounting components or routing wires near moving parts



Tape or loom wires under hood for protection and appearance



Use grommets when routing wires through metal surfaces



Use a Digital Multi Meter for testing and verifying circuits. **DO NOT USE A TEST LIGHT, OR "COMPUTER SAFE PROBE"** as these can set off air bags or damage vehicle computers.



Technical Support (800) 421-3209
or go to
<http://techservices.codesystems.com>

Control Module

Select a mounting location inside the passenger compartment (behind the dash), and secure using the two screws provided. The control module can also be secured in place using cable ties. Be certain that the chosen location will not interfere with the proper operation of the vehicle. Avoid mounting the module to or routing the wiring around the steering shaft/column, as the module or wiring may wrap around or block the steering wheel preventing proper control of the vehicle. Secure the module in the chosen location using cable ties or screws as necessary. Do not mount the module in the engine compartment, as it is not waterproof.

Siren

Select a location in the engine compartment that is not accessible from below the vehicle. The selected location must be clear of hot or moving parts within the engine compartment. The siren must be pointed downward to prevent water retention and the flared end must be pointed away from and out of the engine compartment for maximum sound distribution. Before securing the siren, check behind your chosen location to assure that the mounting screws will not penetrate any factory wiring or fluid lines. Secure the siren mounting bracket using #8 self tapping screws or by first using the mounting bracket as a template, scribe or mark the mounting holes. Drill the marked holes using a 1/8" drill bit, then mount the siren using #8 sheet metal screws.

Dash Mounted LED

A small Red LED included in the kit will serve as a visual indicator of the alarm's status. It should be installed in the dash, located where it can be easily seen from outside the vehicle, yet not be distracting to the driver. Once a location has been selected, check behind the panel for wire routing access, and to confirm the drill will not damage any existing components as it passes through the panel. Drill a 1/4 " hole, and pass the red and blue wires from the LED through the hole, from the front of the panel. Firmly press the body of LED into the hole until fully seated.

Valet/Programming/Override Switch

Select a mounting location that is within reach of the ignition switch, as this switch in combination with the ignition switch, will be used to program the certain features of the system. It is suggested that the switch be mounted to the lower dash panel in the driver's area within reach of the driver.

Two Stage Shock Sensor

Select a solid mounting surface for the shock sensor inside the passenger compartment (behind the dash), and mount the sensor using cable ties, making sure to allow access to the sensitivity adjustment potentiometer for use later in the installation.

WIRING THE SYSTEM

RED	BATTERY 12V (+)
------------	------------------------

Connect this wire to a +12 Volt constant source found at the vehicles ignition switch. This wire provides power for the control module.

ORANGE	GROUND WHEN ARMED
---------------	--------------------------

This wire is provides a 300mA output to control the starter disable 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 pink wire from the alarm should be connected).

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

WHITE	PARKING LIGHT OUTPUT (+/- 15 AMP MAX)
--------------	----------------------------------------------

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

WHITE/RED	PARKING LIGHT POLARITY INPUT
------------------	-------------------------------------

This wire is provided as a polarity input of the pulsed parking light output relay.

a) For vehicles with positive switching parking lights. Connect the White/Red wire to a +12 VDC constant battery source.

b) For vehicles with negative switching parking lights. Connect the White/Red wire to a solid chassis ground source.

BROWN**SIREN/HORN OUTPUT**

This output is available to be used as a constant (+) siren output OR a pulsed (-) horn output and is selectable by changing the jumper position on the main module. Refer to the system layout on page 12 for location.

SIREN:

Connect the BLACK siren wire to a chassis ground using a ring terminal and self tapping screw (not supplied).

Route the BROWN siren output wire from the control module through the firewall and connect to the RED wire on the siren.

NOTE: Be sure to loom the siren wires, and seal the grommet.

HORN:

Locate the vehicle's horn wire.

Verification: This wire will register at positive voltage and register ground when the horn switch is pressed.

Connect the BROWN/BLACK wire to the vehicle's horn wire.

BLACK**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.

TAN/BLACK**TRUNK DISARM INPUT (+)**

This wire will determine if the vehicle's trunk has been opened using the factory (OEM) keyless entry transmitter, and prevent the alarm from triggering when the factory (OEM) keyless entry transmitter is used. This wire requires a positive trigger input and must be wired to the +12 volt trunk control wire from the vehicles keyless entry system, or the switched +12 volt side of the vehicles trunk release solenoid.

GREY**(-) HOOD/TRUNK TRIGGER**

This is an instant on ground trigger wire. It must be connected to the previously installed hood and/or trunk pin switches.

GREEN**NEGATIVE DOOR TRIGGER INPUT**

If the vehicle's courtesy light switches have a (-) ground output when the door is opened (GM and most Imports), you must connect the Green wire to the negative output from one of the door switches.

PURPLE**POSITIVE DOOR TRIGGER INPUT**

If the vehicle's door courtesy light switches have a + 12 volt output when the door is opened (most Fords and some Imports), you must connect the Purple wire to the positive output from one of the door switches. In most cases, the Violet wire will only needs to be connected to one door switch, no matter how many doors the vehicle has.

YELLOW**IGNITION INPUT (+)**

Connect this wire to the ignition 1 wire from the ignition switch. This wire will show +12 volts when the ignition key is turned to the ON, RUN and START positions, and will have 0 volts when the key is turned to the OFF and ACCESSORY positions.

ORANGE/GREEN**30 SECOND OUTPUT WHEN ARMED (-)
OR PASSIVE DOOR LOCK OUTPUT (-)**

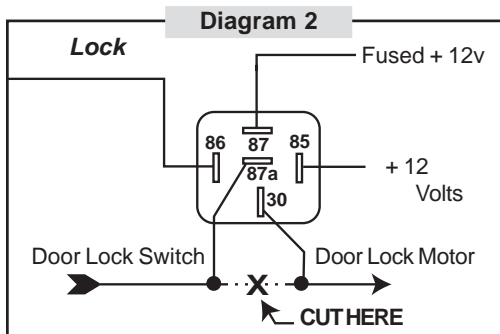
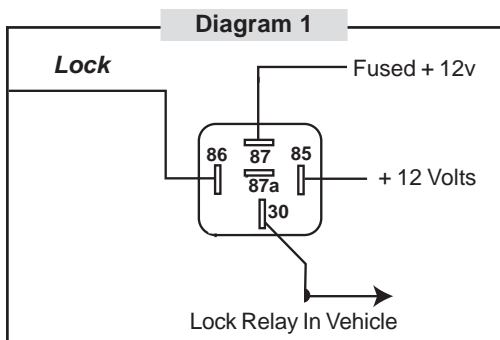
This wire is programmable to provide either a 30 second pulsed output when the system is ARMED or a pulsed ground output to the factory door lock control relay for a passive door locking feature. The maximum current draw through these outputs must not exceed 300 mA.

3 Wire Ground Switched Door Locks

In this application, the Orange/Green wire provides a pulsed ground lock output. Connect this wire to the wire that provides a low current ground signal from the factory door lock switch to the factory door lock control relay.

3 Wire Positive Switched Door Locks (Relay required see Diagram 1)

5 Wire Alternating 12 Volt (Relay required see Diagram 2)



BLACK/WHITE

ILLUMINATED ENTRY OUTPUT 200 mA (-)

This wire provides a 30 second ground output whenever the system is disarmed using the OEM transmitter, and pulses ground when the alarm is triggered. It is used to provide the optional entry lighting feature, and will flash the vehicle's interior light when the system is triggered. This is a transistorized, low current output, and should only be used to drive an external relay.

3 PIN WHITE CONNECTOR

These wires will allow the Factory (OEM) transmitter to arm the system when the LOCK button is pressed, and disarm the system when the UNLOCK button is pressed.

LT BLUE/RED

ARM INPUT

Connect the Lt Blue/Red to the lock motor wire of the drives door actuator. The lock motor wire will pulse +12 volts when the LOCK button is pressed on the Factory (OEM) transmitter.

LT BLUE/BLACK

DISARM INPUT

Connect the Lt Blue/Black to the unlock motor wire of the drivers door actuator. The unlock motor wire will pulse +12 volts when the UNLOCK button is pressed on the OEM transmitter. For vehicles with two stage unlocking, the unlock motor wire of the drivers door actuator will pulse +12 volts when the UNLOCK button is pressed the first time (unlocking the drivers door), and will not show any pulses the second time the UNLOCK button is pressed (unlocking all remaining doors) on the OEM transmitter.

LT BLUE/GREEN

UNLOCK SENSE INPUT

Connect the Lt Blue/Green wire to the positive or negative unlock wire from the door lock/unlock switch, or any passenger door unlock motor wire.

- For vehicles with two stage unlocking, it is very important that the Lt Blue/Black wire does not receive a pulse when the drivers door only is unlocked using the OEM transmitter.
- For vehicles with single stage unlocking (all doors unlock with one press of UNLOCK on the OEM transmitter), connect the Lt Blue/Black to chassis ground.

Note: You can select the polarity of this input by changing DIP Switch #2

ADDITIONAL PORTS

LED PORT

Route the red and blue wires in the 2 pin white connector from the LED to the control module, and plug it into the mating white connector on the side of the module.

VALET / PROGRAMMING PORT

Route the 2 pin red connector from the override switch previously mounted to the mating two pin connector on the module.

SHOCK SENSOR PORT

Route the 4 pin connector from the previously installed shock sensor to the mating 4 pin connector of the module.

COMPLETING THE INSTALLATION

Adjusting the Shock Sensor: Gently turn the adjustment dial counter clockwise to turn down the sensitivity and turn clockwise to turn up sensitivity. Close the hood and trunk lids, and arm the alarm . Wait 6 seconds for the accessories trigger zone to stabilize, then test the sensitivity adjust as needed

CAUTION: Never perform this test on the vehicle's glass, as you may break the window.

WARNING ! Setting the sensitivity too high can cause false alarms due to noise vibrations from passing trucks and heavy equipment. To decrease sensitivity, turn the adjustment screw counter clockwise.

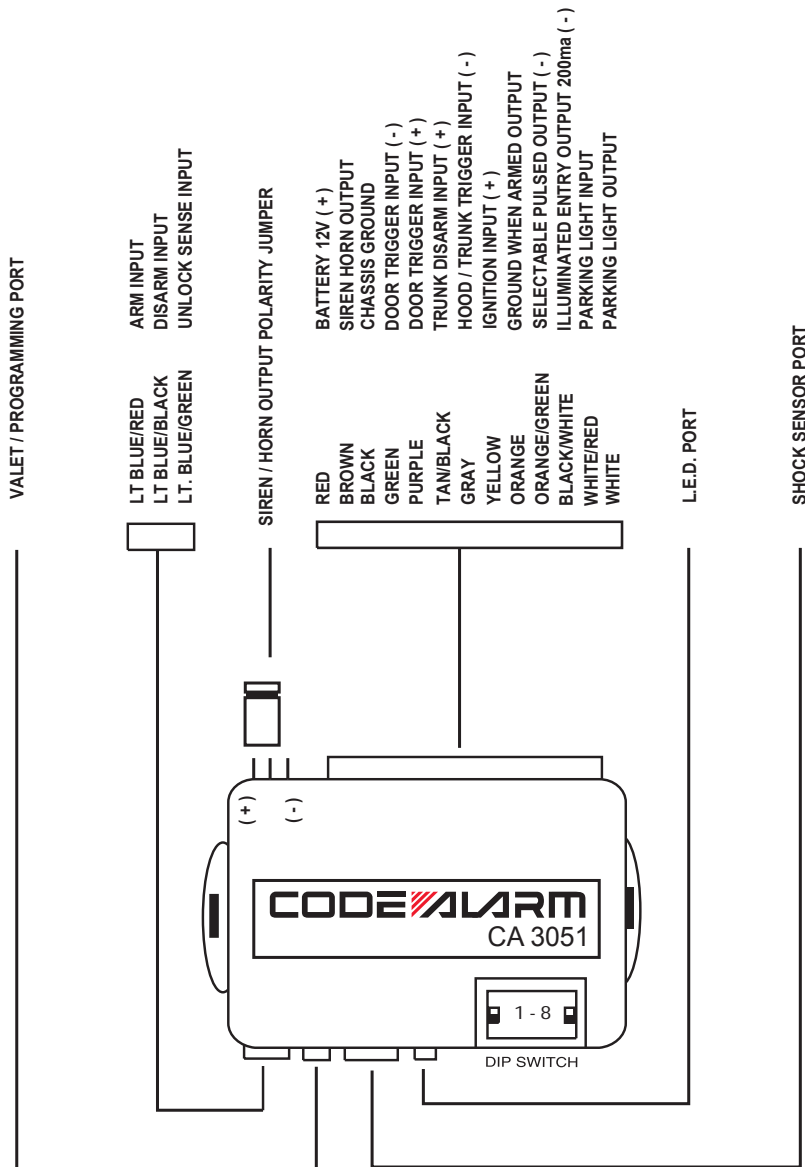
Wire Dressing: Always wrap the alarm wires in convoluted tubing, or with a spiral wrap of electrical tape. Secure these looms along the routing using cable ties. This will ensure that the alarm wires are not damaged by falling onto hot or sharp moving surfaces in the vehicle.

Changing Programmable Features:

This system has several programmable features that may need to be changed based on a specific vehicle or a customer's preference. Programmable features can be changed using the bank of dip switches located on the side of the control module. To change a setting carefully flip the dip switch using a small screwdriver or pick. Use the chart below as reference.

	Dip Switch Feature Bank	ON	OFF
1	Passive Lock / 30 Sec. Output when Armed	30 Sec. Output when Armed	Passive Door Lock
2	Arm / Disarm Input Polarity	Positive	Negative
3	Unlock Switch Sense Input Polarity	Positive	Negative
4	N/A		
5	Passive Arming	Passive	Active
6	Entry Delay	15 Second Delay	Instant
7	Siren / Horn Output	Siren	Horn
8	Door Ajar Warning	Instant	30 Second

Default Settings are in **BOLD**



Audiovox Electronics Corporation.
Customer Service 1-800-421-3209
WWW.CODE-ALARM.COM

FCC COMPLIANCE

This device complies with Part 15 of the FCC rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including any interference that may cause undesired operation.

Warning!

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.