

CODE ALARM

PROFESSIONAL SERIES

**Remote Keyless Entry
Installation Guide**

CA 2051

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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>

10 Pin Main Harness

10 PIN MAIN	1	BLUE/GREEN	2ND UNLOCK OUTPUT (-)
	2	BLACK/WHITE	ILLUMINATED ENTRY OUTPUT (-)
	3	WHITE/RED	PARKING LIGHT INPUT
	4	WHITE	PARKING LIGHT OUTPUT
	5	BLACK	GROUND
	6	ORANGE	GROUND WHEN ARMED OUTPUT (-)
	7	RED	BATTERY 12V (+)
	8	BROWN/BLACK	HORN OUTPUT (-)
	9	YELLOW	IGNITION INPUT (+)
	10	RED/WHITE	TRUNK RELEASE OUTPUT (-)

6 Pin Door Lock Harness

6 PIN DOOR LOCK	1	BROWN/BLACK	UNLOCK SWITCH (87A)
	2	BLUE/BLACK	UNLOCK MOTOR (30)
	3	VIOLET/BLACK	UNLOCK POLARITY (87)
	4	WHITE/BLACK	LOCK SWITCH (87A)
	5	GREEN/BLACK	LOCK MOTOR (30)
	6	VIOLET	LOCK POLARITY (87)

8 Pin Main Harness

1	BLUE/GREEN	2ND UNLOCK OUTPUT (-)
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This wire provides a (-) 200mA output upon the second press of unlock. This output is used unlock the remaining passenger doors when the system is set up for driver priority unlock.

2	BLACK/WHITE	ILLUMINATED ENTRY OUTPUT (-)
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This wire provides a (-) 500mA output for 30 seconds when the system is disarmed capable of driving relays.

Locate the vehicle's dome light or pin switch wire.

Verification: This wire will register positive voltage or ground when the vehicle's dome light is turned ON.

3	WHITE/RED	PARKING LIGHT INPUT
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4	WHITE	PARKING LIGHT OUTPUT
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Locate the parking light output wire at the vehicle's light switch.

Verification: This wire registers positive voltage when the parking lights are turned on.

Positive switching Parking Lights:

Connect the WHITE/RED wire to a 15 Amp max fused battery source.

Connect the WHITE wire to the parking light output wire.

Negative switching Parking Lights:

Connect the WHITE/RED wire to a good chassis ground.

Connect the WHITE wire to the parking light output wire.

5	BLACK	GROUND
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Connect the BLACK wire to a solid chassis ground point using a ring terminal and self tapping screw (not supplied). Scrape away paint from the grounding point to ensure a good connection. The recommended grounding point is a metal surface in the driver's side kick panel area.

NOTE: Do not ground the BLACK wire with any other vehicle components.

6	ORANGE	GROUND WHEN ARMED OUTPUT (-)
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This wire will have a continuous (-) 200mA output when the system is Armed. This wire is typically used for controlling window modules or additional sensors.

7	RED	BATTERY 12V (+)
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Locate 1 of the vehicle's constant 12 Volt battery wires at the ignition switch.

Verification: This wire will register (+) voltage in all positions of the ignition switch.

Connect the RED wire to the constant 12 Volt battery wire.

NOTE: Remove all fuses until all connections are made.

8	BROWN/BLACK	HORN OUTPUT (-)
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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. This is a low current output, 200mA.

9

YELLOW

IGNITION INPUT (+)

Locate the vehicle's ignition wire at the ignition switch.

Verification: This wire registers voltage when the key is turned to the ON (or RUN) position. The voltage does not drop out when the key is turned to the START (or CRANK) position.

Connect the YELLOW wire to the vehicle's Ignition wire.

10

REDWHITE

TRUNK RELEASE OUTPUT (-)

Locate the vehicle's trunk release wire at the trunk release switch.

Verification: This wire will register either positive voltage or ground when the trunk release is activated.

This is a low current output, 200mA.

6 Pin Door Lock Output Harness

1	BROWN/BLACK	UNLOCK SWITCH (87A)
2	BLUE/BLACK	UNLOCK MOTOR (30)
3	VIOLET/BLACK	UNLOCK POLARITY (87)
4	WHITE/BLACK	LOCK SWITCH (87A)
5	GREEN/BLACK	LOCK MOTOR (30)
6	VIOLET	LOCK POLARITY (87)

The door lock / unlock outputs are designed to control several different types of systems which may require additional parts.

3 Wire Ground Switched Door Locks:

Connect the GREEN/BLACK wire to the wire that provides a ground signal from the factory door lock switch to the factory door lock control relay.

Connect the BLUE/BLACK wire to the wire that provides a ground signal from the factory door unlock switch to the factory door lock control relay.

Connect the VIOLET and the VIOLET/BLACK wires to a solid chassis ground point. The WHITE/BLACK and BROWN/BLACK wires are not required for this type of door lock/unlock system.

3 Wire Positive Switched Door Locks:

Connect the GREEN/BLACK wire to the wire that provides a +12 volt signal from the factory door lock switch to the factory door lock control relay.

Connect the BLUE/BLACK wire to the wire that provides a +12 volt signal from the factory door unlock switch to the factory door lock control relay.

Connect the VIOLET and the VIOLET/BLACK wires to a +12 volt battery source. The WHITE/BLACK and BROWN/BLACK wires are not required for this type of door lock/unlock system.

Additional Ports

LED Port

The 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.

Programming / Valet Button Port

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.

Set Up & Programming

Transmitter Programming - Feature Bank 1

1. Turn the ignition ON.
2. Press and hold the valet/override button.
3. Within 10 seconds the system will chirp (3) three times.
4. Press 1 button of each transmitter you wish to program.
5. The system will respond with 1 chirp for each accepted transmitter.
6. Pressing the override button at anytime during programming will advance to the next bank.

NOTE: The system will exit transmitter programming after 15 seconds of inactivity.

NOTE: This system has 1 button programming which programs all channels of the system.

NOTE: The system will hold up to 4 transmitters in memory, programming a 5th transmitter will erase the oldest transmitter in memory.

Manual Feature Programming - Feature Bank 2 & 3

1. Turn the ignition ON.
2. Press and hold the valet/override button.
3. Within 10 seconds the system will chirp (3) three times.
4. Use the valet/override button to advance through each option bank. For feature programming advance to Feature Bank 2 or 3, which is (4) four or (5) five chirps.
5. Use the transmitter  button to scroll through the selections in each feature bank, the system will chirp to match the feature number.
6. Press the transmitter  button to change the desired feature. The LED will flash indicating the changed feature.

Defaulting All Features: Pressing the  button anytime while in any of the feature banks will default all features and return you to feature bank 2 - 4 chirps.

NOTE: The system will remain in feature programming mode as long as the ignition is on, there is no time limit. To exit programming turn the IGNITION OFF.

Refer to transmitter programming.

	Feature Bank 2 - 4 Chirps Security Control	1 LED Flash	2 LED flash	3 LED Flash	4 LED Flash	5 LED Flash
1	Silent Choice	ON	OFF			

	Feature Bank 3 - 5 Chirps Output Control	1 LED Flash	2 LED flash	3 LED Flash	4 LED Flash	5 LED Flash
1	Extended Lock Pulse	1 Second	3.5 Seconds	1 Second Lock, Double Pulse Unlock	30 Second Lock, Double Pulse Unlock	Double Pulse Lock, 1 Second Unlock
2	2nd Unlock Output	2nd Unlock	Factroy Disarm			
3	Ignition Controlled Locks	OFF	Lock and Unlock	Lock Only	Unlock Only	
4	Trunk Output Timing	Push and Hold	10 Seconds	20 Seconds	Latched until IGN ON	Latched ON until Button Press
5	Horn Output Timing	16mS	10mS	30mS	40mS	50mS

Chirp Delete - User Accessible

System ARM/DISARM chirps can be toggled ON or OFF without entering the programming feature banks.

1. Turn the ignition ON then OFF.
2. Press and release the valet/programming button 3 times. The system will respond with 1 chirp for ON or 2 chirps for OFF.

Feature Descriptions

Feature Bank 2 - Security

1 - Silent Choice: Controls the normal arm/disarm chirps of the security system.

ON - Silent arming/disarming upon first press of lock/unlock, pressing lock/unlock a second time will activate the arm/disarm chirps respectively. The system will only sound the arm/disarm chirps upon a second press of the lock/unlock buttons.

OFF - normal arm/disarm chirps upon the first press of lock/unlock.

Feature Bank 3 - Output Control

1 - Extended Lock Pulse: Controls the timing of the BLUE and GREEN lock output wires.

1 Second - Single 1 second lock pulse, single 1 second unlock pulse.

3.5 Seconds - Single 3.5 second lock pulse, single 3.5 second unlock pulse.

1 Second Lock, Double Pulse Unlock - Single 1 second lock pulse, double 1 second unlock pulse.

30 Second Lock, Double Pulse Unlock - Single 30 second lock pulse, double 1 second unlock pulse.

Double Pulse Lock, 1 Second Unlock - Double 1 second lock pulse, single 1 second unlock pulse.

2 - 2nd Unlock Output: Controls the timing of the BLUE/GREEN 2nd unlock output.

2nd Unlock - Same output as unlock with 2nd press of unlock.

Factory Disarm - Single 1 second pulse with unlock and remote start activation.

3 - Ignition Controlled Locks: Control of door locks when the ignition is cycled ON or OFF.

OFF - Door locks not activated by ignition.

Lock and Unlock - Doors lock when ignition is turned on and unlock when ignition is turned off.

Lock Only - Doors lock when ignition is turned on.

Unlock Only - Doors unlock when ignition is turned off

4 - Trunk Output Timing: Control of the RED/WHITE trunk release output wire when trunk release is activated from the transmitter.

Push and Hold - Output is continuously active until transmitter button is released.

10 Seconds - Output stays active for 10 seconds regardless of length button press on transmitter.

20 Seconds - Output stays active for 20 seconds regardless of length button press on transmitter.

Latched until IGN ON - Output stays active until the ignition is turned on.

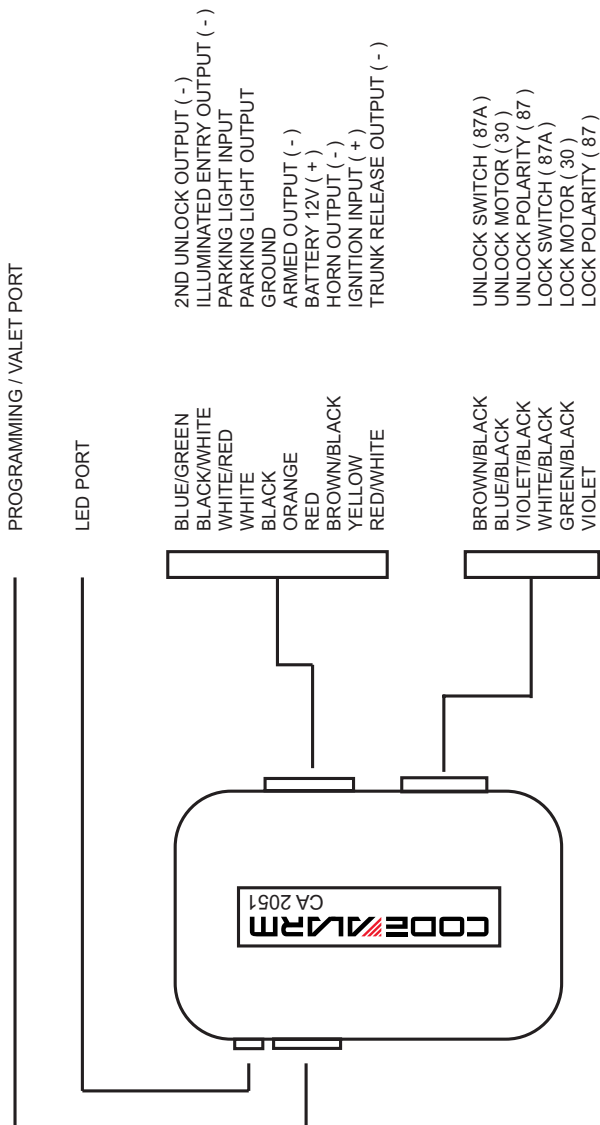
Latched ON until Button Press - Output stays active until deactivated by transmitter.

5 - Horn Output Timing: Control the minimum horn pulse time in milli seconds, some vehicle will require a longer pulse to activate the factory horn.

16mS 10mS 30mS 40mS 50mS

Transmitter Button Functions

	Lock	Unlock	Car Find / Panic	Trunk	Operation Method
Lock	X				Press and Release
Unlock		X			Press and Release
Trunk				X	Push and Hold (3 Sec)
Car Finder			X		Press and Release
Panic			X		Push and Hold (3 Sec)



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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.