



E4

PROFESSIONAL 2-WAY LCD REMOTE 4 CHANNEL ALARM SYSTEM

INSTALLATION MANUAL

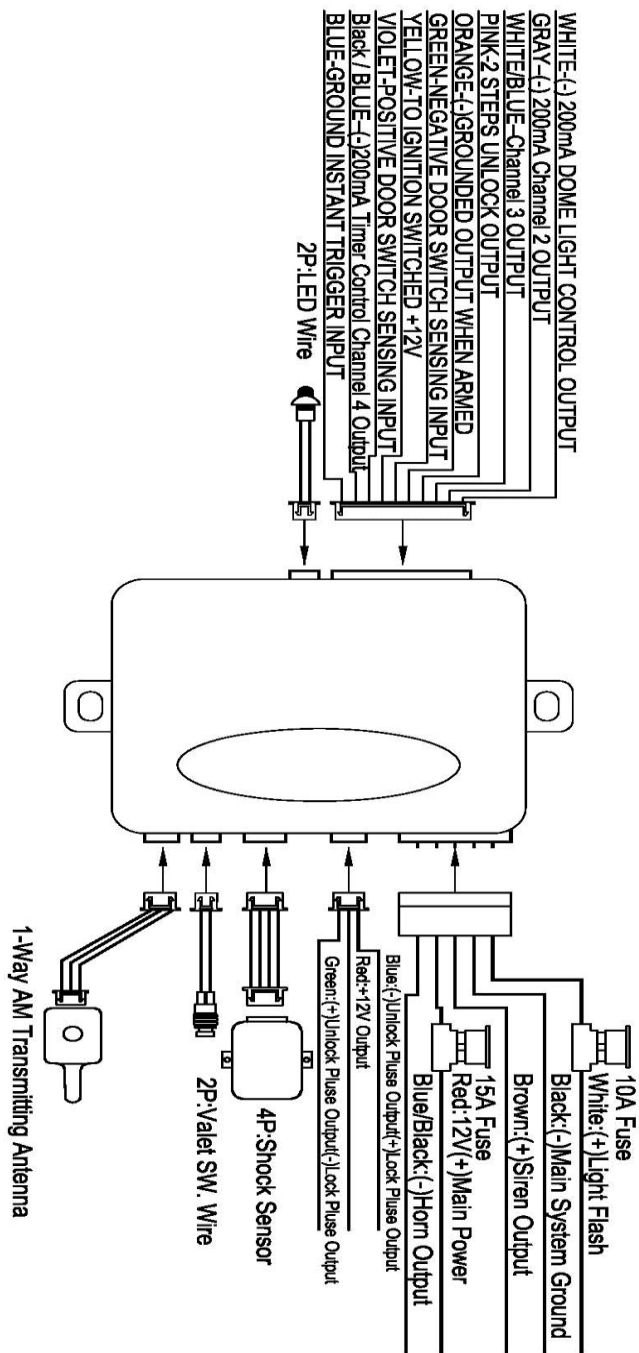
This unit is designed for professional installation only and must be installed by an Encore authorized dealer. Please register this product at www.encoreautomotivesystems.com.

- Read the operation manual for operation.
- Do not install any component near the brake, gas pedal or steering linkage.
- Most vehicles have an SRS air bag system. Use extreme care and do not probe any wires of the SRS system.
- Disconnect the car battery before beginning work on the vehicle.
- Check behind panels before drilling any holes. Ensure that no wiring harness or other components are located behind the panels that would otherwise be damaged.
- Do not use conventional crimp lock, bullet on any wiring. Poor wiring, i.e. taped joints will possibly introduce unreliability into the alarm system and may result in false alarms or incorrect operation. We suggest soldering all connection points.
- Install the wiring neatly under carpets or behind trim to prevent possible damage to wires.

FOR AUTHORIZED DEALER TECHNICAL SUPPORT, PLEASE CALL

Toll Free: (855) GO-ENCORE : 8:00 am TO 5:00 pm PST.

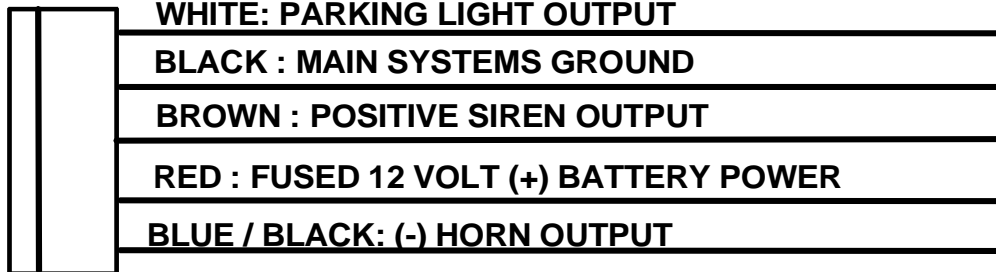
INSTALLATION DIAGRAM



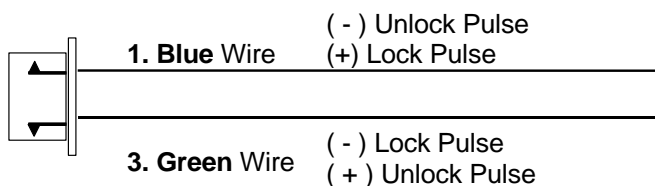
10 Pin, Main Connector

Pin #	Wire Color	Specification
1	White	(-) Dome Light Output
2	Gray	Channel 3 Trunk Output (-)
3	White / Blue	Channel 4 (-) Aux Output
4	Pink	2 Step Unlock Output
5	Orange	Ground Output (-) when armed
6	Green	Negative (-) Door Trigger
7	Yellow	Ignition: 12 Volt (+) with key ON
8	Violet	Positive (+) Door Trigger
9	Black / Blue	Channel 5 Programmable Output (-)
10	Blue	Zone 2, (-) Hood / Trunk Trigger

5 PIN MAIN POWER HARNESS



3 PIN, DOOR LOCK CONNECTOR



Keep wiring away from moving engine parts, exhaust pipes and high-tension cable. Be sure to tape wires that pass through holes on the firewall to prevent fraying.

CAUTION: Do not connect the wire harness to the control module until all wiring to vehicle is complete.

5 PIN WIRE HARNESS:

WHITE WIRE — PARKING LIGHT RELAY OUTPUT (+12 V 10A OUTPUT) —

Connect the WHITE wire to the parking light wire coming from the headlight switch. Do not connect the WHITE wire to the dashboard lighting dimmer switch. (Damage to the dimmer will result). The limitation of the WHITE wire is 10 AMP max. Do not exceed this limit or damage to the alarm and parking relay will result.

BLACK WIRE — SYSTEM GROUND —

This is the main ground connection of the alarm module. Make this connection to a solid section of the vehicle frame. Do not connect this wire to any existing ground wires supplied by the factory wire loom, make the connection to the vehicle's frame directly.

BROWN WIRE – (+) SIREN OUTPUT –

This wire provides power to the supplied siren. Connect the Brown wire to the Red wire of the siren. Connect the Black wire of the siren to a stable chassis ground.

RED WIRE — SYSTEM POWER (+12V CONSTANT) —

The RED wire supplies power to the system. Connect this wire to a stable constant +12 volt source.

BLUE / BLACK -- Negative horn output (-) 500 Ma

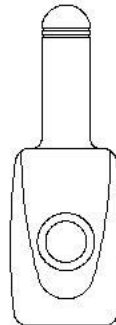
Connect this wire to any negative activated horn wire.

H5. 3-PIN BLACK CONNECTOR. – TWO-WAY TRANSCEIVER/ANTENNA MODULE

The Two-way transceiver/antenna mounting location should be the upper left or lower left corner of driver's windshield

. For optimum range we suggest that the antenna be mounted Antenna tip facing down.
Warning!

Do not mount in such a manner that it obstructs the driver's view.



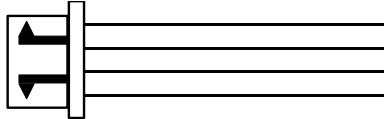
- Remove the protective tape backing.
- Carefully align the two-way transceiver/antenna and apply to windshield.
- Route the black connector wire behind the trim and connect to the two-way transceiver/antenna.
- Connect the other end to the control module.

- Special considerations must be made for windshield glass as some newer vehicles utilize a metal-shielded window glass that will inhibit or restrict RF reception. In these vehicles, route the two ways transceiver/antenna module away from metallic shielded window glass as far as possible.

2 PIN BLUE CONNECTOR FOR THE VALET SWITCH:

Select a mounting location for the switch that is easily accessible to the driver of the vehicle. The switch does not have to be concealed, however, concealing the switch is always recommended, as this provides an even higher level of security to the vehicle. Mount the valet switch in a hidden but accessible location. Route the valet switch wires to the control module.

4 PIN ORANGE CONNECTOR 2 STAGE SHOCK SENSOR (ZONE 1 / 4)



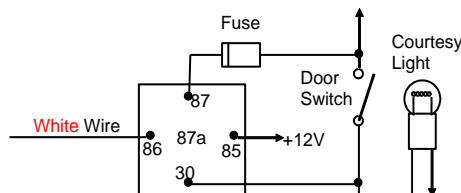
- 1. Green Wire / Zone 1 Warn Away Input
- 2. Blue Wire / Zone 4 Ground Trigger
- 3. Black Wire / Ground
- 4. Red Wire / +12Volts

10 Pin, Main Connector

Pin #	Wire Color	Specification
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9	Black / Blue	Channel 5 Programmable Output (-)
10	Blue	Zone 2, (-) Hood / Trunk Trigger


White wire – (-) 200mA Dome Light Control Output –

This wire becomes grounded when the dome light controls circuit active. The current capacity of this wire is 200mA. This wire can control the operation of the interior lights. An optional 10 Amps relay can be used to this system for interior lights operation.





- a). Upon disarming, the interior lights will remain on for 30 seconds.
- b). If the alarm is triggered, the interior light will flash for the same duration as the siren.

Gray wire – (-) 200mA Channel 3 (Trunk) Output –

This will become a 1 second pulse ground by activate (button 3)  on transmitter for two seconds, the current capacity of this wire is 200 mA. This feature allows you to remote control trunk release or other electric device. (Relay may be required).

White / Blue wire – (-) 200mA Timer Control Channel 4

Channel 4 Output (Factory default setting on momentary grounded)

This wire is built-in user-programmable timer output provides a ground through this wire. Press the transmitter  and  buttons at the same time. You may program the built-in timer to send a ground signal for any time interval between 1 second and 2 minutes. For instance, this timer output may be used to turn on the headlight with the remote control. Also on certain BMW, Mercedes Benz, Jaguar and Volkswagen cars, you can use this unique timed output to allow remote closure of all power window and sunroof without the need for an external module!

Pink wire – (-) 200mA Programmable Output 2 Steps Unlock Output (Factory default setting) (See Alarm Feature Programming)

The 2 steps unlock feature will work for the most fully electronic door lock circuit. The vehicle must have an electronic door lock switch (not the lock knob or key switch), which locks and unlocks all of vehicle's doors. When wired for this feature, press the disarm (or unlock) button one time will disarm the alarm and unlock the driver's door only. If, press disarm (or unlock) button two times within 3 seconds, the alarm will disarm and all doors will unlock.

Factory Security Disarm Signal Output –

This wire is designed to disarm a factory installed security system. This wire sends a negative (-) 1 seconds pulse upon a remote start and remote door unlocking. Some factory systems must be disarmed to allow remote starting. In most cases, this wire may be connected directly to the factory alarm disarm wire. The correct wire will show negative ground when the key is used to unlock the doors or trunk. This wire is usually found in the kick panel area in the wiring harness coming into the car body from the door.

Start Status (Shock Sensor By-Pass Control) Output–

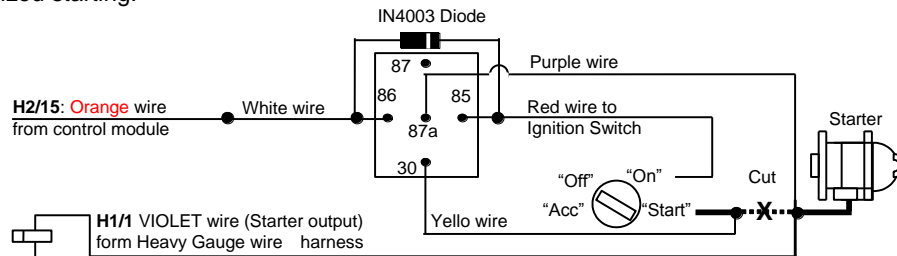
This wire is designed to by-pass shock sensor module. This wire will supply an output at all times the remote start is operating plus an additional 3 seconds after the remote start unit turn off.

Key Sensor By-Pass Output –

This output is for a Key Sense wire by-pass that some Chrysler and Toyota vehicles need to activate remote start. This wire comes on when remote start is activated and stays on for 20 seconds.

Orange wire – (-) 200mA Grounded Output When Armed –

This wire will become grounded when the alarm is armed. The current capacity of this wire is 200mA. This output can control starter disable, when an intrusion is detected and the system is triggered. The vehicles prevent from any unauthorized starting.



Green wire – Negative Door Switch Sensing Input (Zone 3) –

This wire is the ground trigger input wire for negative door pin switch. This wire is connection for "grounding" type factory door pins locate the "common wire" that connects the door pin switches. Make the connection of the GREEN Wire here.



Yellow wire – Ignition Input – (+)

Connect this wire to any fused 12V positive source that comes on when the ignition of the vehicle is ON. Please look for true Ignition and make sure the wire does not come ON with the accessory position of the Ignition Key. 12V when crank and running.

Violet wire – Positive Door Switch Sensing Input (Zone 3)–

This wire is the positive trigger input wire for positive door pin switch. This wire is connection for "positive" type factory door pins (typical FORD MOTOR). Locate the "common wire" for all door pins and make the connection of the VIOLET Wire here.

Black / Blue Wire– (-) 200mA Timer Control Channel 5

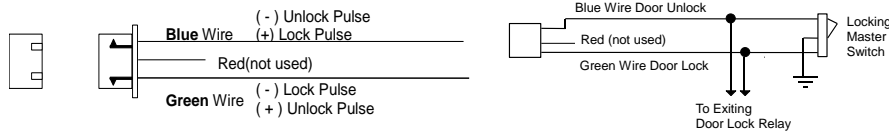
(See Alarm Feature Programming) This wire is built-in user-programmable timer output provides a ground through this wire. Press the transmitter  and  buttons at the same time. You may program the built-in timer to send a ground signal for any time interval between 1 second and 2 minutes. For instance, this timer output may be used to turn on the headlight with the remote control. Also on certain BMW, Mercedes Benz, Jaguar and Volkswagen cars, you can use this unique timed output to allow remote closure of all power window and sunroof without the need for an external module!

Blue wire – Ground Instant Trigger Input (Zone 2) –

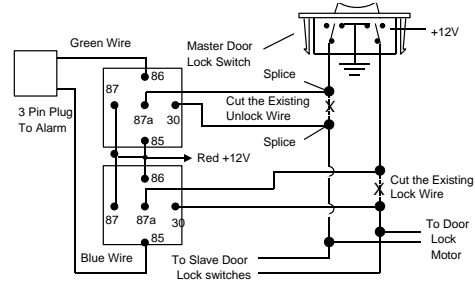
This wire is the ground trigger input wire for hood and or trunk pin switches.

3 PIN DOOR LOCK CONNECTOR: (Maximum 500mA Output)

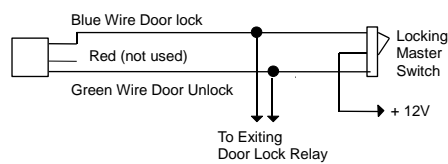
NEGATIVE TRIGGER DOOR LOCK SYSTEM



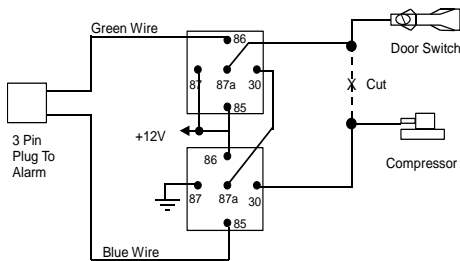
5-WIRE ALTERNATING DOOR LOCK



POSITIVE TRIGGER DOOR LOCK SYSTEM



VACUUM OPERATED CENTRAL LOCKING

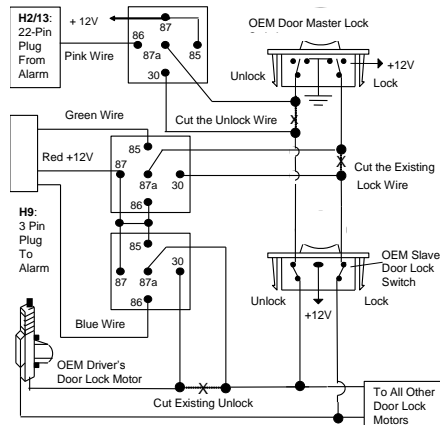


VACUUM OPERATED DOOR LOCKING SYSTEM:

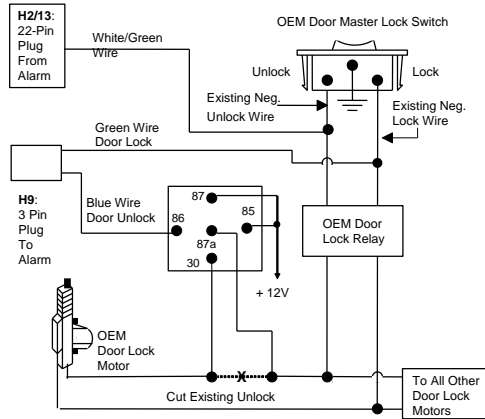
TYPICAL OF MERCEDES BENZ AND AUDI.

Locate the wire under the driver's kick panel. Use the voltmeter connecting to ground, verify that you have the correct wire with the doors unlocked, the voltmeter will receive "12 volts". Lock the doors and the voltmeter will read "0 volt". Move the alligator clip to +12V and the voltmeter will receive "12 volts". Cut this wire and make connections. Be sure to program door lock timer to 3.5 seconds. (See Alarm Feature B – 3 Programming.)

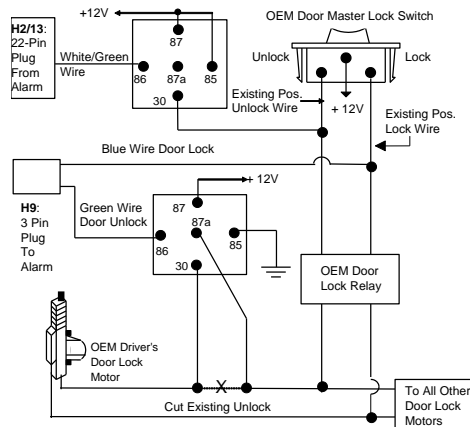
2 STEP DOOR UNLOCK WIRE CONNECTION FOR 5 WIRE ALTERNATING DOOR LOCKS



2 STEP DOOR UNLOCK WIRE CONNECTION FOR GROUND SWITCHED DOOR LOCKS



2 STEP DOOR UNLOCK WIRE CONNECTION FOR POSITIVE SWITCHED DOOR LOCKS



PROGRAMMING TRANSMITTER:

Note: This mode will only retain the last 4 remote transmitters programmed. If the transmitter memory is exceeded, the security system will start deleting transmitters from memory in chronological order.





1. Turn the Ignition 'switch' **'OFF/ON'** 4 TIMES and stay in **ON position**.
"Within 15 seconds".
2. Push the Valet switch **4 times** and hold it on the **4th** push until a long chirp is heard then release the valet switch.
You are now in the Transmitter programming mode.
3. Press and hold any button of the transmitter until the siren responds with a confirming chirp, indicating the signal has been stored into memory.
4. If you have additional transmitters (up to 4) that need to be programmed, repeat step 3 for each transmitter.

Exit: Turn Ignition to 'OFF' position, or leave it for 15 seconds. 3 long chirps & 3 parking light flashes will confirm exit.

FEATURES PROGRAMMING:

ALARM FEATURE "A" PROGRAMMING:

1. Turn the Ignition 'switch' **'ON/OFF' 3 TIMES** and stay in **OFF position**.
2. Push the Valet switch **3 times** (holding in on the **3rd push**) until one long chirp is heard, then release the valet switch. You are now in the Alarm feature **"A"** programming mode.
3. Press and release the transmitter button corresponding to the feature you want to program.
 - a. The siren chirps and LED pause will indicate previously setting.
 - b. The factory default settings is always [1] LED flash, [1] chirp.
4. Depress the transmitter button to change the feature. Simple keep re-depressing the transmitter button until the system advances to your desired setting.
Press the transmitter button corresponding to the feature you want to program.

Press Transmitter Button	One Chirp / LED one pulse Factory Default Setting	Two Chirps / LED two pulses	Three Chirps / LED three pulses	Four Chirps / LED four pulses
1 	All Confirmation chirps on	Siren Confirmation chirp on only	Horn Confirmation chirp on only	All Confirmation chirps off
2 	Automatic Rearm off	Automatic Rearm on		
3 	Instant Door Ajar error chirp	45 seconds delay Door Ajar error chirp.		
4  + 	Without Car-jack mode	Active Car-jack mode	Passive Car-jack mode	

Exit: Turn Ignition to 'ON' position, or leave it for 15 seconds. 3 long chirps & 3 parking light flashes will confirm exit.

45 seconds Delay Door Ajar Error Chirp:







This feature controls the error chirp that is generated if the system is armed with the door trigger active. This is useful in a vehicle that has a long dome light delay after the door has been closed. If the system is armed before the dome light has turned off, the security system will generate the door trigger error chirp. Use this feature to disable the door open error chirp.

With Dome light turns on after ignition off:

Some vehicles turn on the dome light when ignition key is turned off. After remote start, with alarm on, a false alarm may occur when the run time elapses and the dome light comes on. To prevent this from happening, program Alarm Feature **A-8** to "With Dome light turns on after ignition off (45 second door by-pass)".

ALARM FEATURE “B” PROGRAMMING:

- 1 Turn the Ignition switch ‘ON/OFF’ **3 TIMES** and stay in **OFF position**.
- 2 Push the Valet switch **4 times** (holding in on the **4th push**) until one long chirp is heard then release the valet switch. You are now in the Alarm feature “B” programming mode.
- 3 Press and release the transmitter button corresponding to the feature you want to program.

Press Transmitter Button	One Chirp / LED one pulse Factory Default Setting	Two Chirps / LED two pulses	Three Chirps / LED three pulses	Four Chirps / LED four pulses
1 	0.8-second Door lock pulses.	3.5-second Door lock pulse.	Double pulse unlock	Door lock with “Comfort Feature”
2 	Active arming	Passive arming without passive door locking	Passive arming with passive door locking.	
3 	Ignition controlled door locks & unlocks	Ignition controlled door locks only	Ignition controlled door unlocks only	Without ignition controlled door locks & unlocks
4.  + 	Horn chirp Duration Standard	Horn chirp Duration 50 mS	Horn chirp Duration 30 mS	Horn chirp duration 10 mS
5 * 	Pathway illumination feature “off”	Parking light turns “on” for 30-second upon an unlock signal	Parking light turns “on” for 30- second upon an unlock signal & 10-second upon a lock signal.	





Exit: Turn Ignition to 'ON' position, or leave it for 15 seconds. 3 long chirps & 3 parking light flashes will confirm exit.

Comfort Feature:

Some Vehicles have a special “COMFORT feature”. When you lock the door with the key, you can keep turning the key in the door for about 5 to 7 seconds and the window will close directly. If your vehicle has the “COMFORT feature” and you wish for the door to be locked and the window to be closed automatically at the same time by remote control, you can set the alarm feature “B-3 “with comfort feature”.

ALARM FEATURE “C” PRORAMMING:

- 1 Turn the Ignition 'switch 'ON/OFF' 3 TIMES and stay in OFF position.
- 2 Push the Valet switch 5times (holding in on the 5th push) until one long chirp is heard then release the valet switch. You are now in the Alarm feature “C” programming mode.
- 3 Press and release the transmitter button corresponding to the feature you want to program.

Press Transmitter Button	One Chirp / LED one pulse Factory Default Setting	Two Chirps / LED two pulses	Three Chirps / LED three pulses	Four Chirps / LED four pulses
1 	Channel 3 Output = 2 sec. Pulse	Channel 3 Output = Latched	Channel 3 Output = Timer control	Pager Output
2 	Channel 5 Output = 2 sec. Pulse	Channel 5 Output = Latched	Channel 5 Output = Timer control	Pager Output
3 	Pink Wire = 2 Step Unlock	Pink Wire = Factory Disarm		
4 	Channel 4 Output = 2 sec. Pulse	Channel 4 Output = Latched	Channel 4 Output = Timer control	Pager Output




Exit: Turn Ignition to 'ON' position, or leave it for 15 seconds. 3 long chirps & 3 parking light flashes will confirm exit.

Channel 3/4/5 Timer Control Output Programming:

Enter:

1. Turn the Ignition 'switch 'ON/OFF' 5 TIMES and stay in OFF position.
2. Push the Valet switch 5 times and hold in on the 5th push, when a long chirp is heard, then release the valet switch. You are now in the Alarm feature ‘C’ programming mode.

Timer Program Channel 3/4/5:

- 1-a. **CH 3** Press and release the transmitter  button 3 times, [3] LED flash, [3] siren/horn chirp to indicate you are in features “Channel 3 Timer Programming mode”.
 - 1-b. **CH 4** Press and release the transmitter  button 3 times, [3] LED flash, [3] siren/horn chirp to indicate you are in features “Channel 4 Timer Programming mode”.
 - 1-c. **CH 5** Press and release the transmitter  button 4 times, [3] LED flash, [3] siren/horn chirp to indicate you are in features “Channel 5 Timer Programming mode”.
2. Press and hold the valet switch, the timer will immediately start.
 3. When the desired interval has passed, release the valet switch. 1 long chirp for confirmation.
(Set to any interval between 1 second and 2 minutes)

Note 1:

If your built-in timer controls window/sunroof closure in your car DO NOT change the timer setting! This requires installer-only programming. Changing the value will adversely affect operation and may cause damage.

Note 2:

Latched output = The latched output selection will send a negative signal as soon as the Channel 3/4/5 button is pressed and will continue until the button is pressed again.

ENCORE LIMITED LIFETIME WARRANTY PROVISIONS

(U.S. ,Continental U.S. and Canada Only)

1. Encore Automotive Systems LLC. WARRANTS that this new unit has been thoroughly inspected and tested at the factory prior to delivery. Your Encore equipment is guaranteed for “life” to the original purchaser/user of the equipment and the original vehicle in which it was installed by an authorized installer under the following conditions: If the product proves defective (according to Encore’s testing) within the first year, the defective unit may be exchanged or repaired free of charge. “Proof of Purchase” (dated sales receipt) must accompany all warranty returns; **otherwise, your return will be rejected and sent back.** After one (1) year, the purchaser should ship the unit prepaid to Encore with a money order in the amount of \$30.00 to cover shipping and handling charges. **Note:** The product needs to be registered online at time of installation. To register this product go to, www.encoresautomotivesystems.com .
2. Exclusion to the Limited Lifetime Warranty Provision: All two-way LCD and two-way OLED remote transceivers are excluded from the Limited Lifetime Warranty noted in paragraph no.1. All two-way LCD and two-way OLED remote transceivers are guaranteed to the original purchaser for a period of one year from date of purchase. If the product proves to be defective within the first year, the defective unit may be exchanged or repaired free of charge. All other provisions stated on this card apply.
3. This WARRANTY will be considered void if the equipment has been misused, neglected, improperly serviced or installed, altered, dropped or damaged by water, contrary to the Encore OPERATIONS MANUAL. Or, if used with accessories not approved by Encore, which may have contributed to the defect. **See note below regarding product installation**.**
4. The purchaser’s remedies under this WARRANTY shall be limited to the repair or replacement of electronic components only. **THE FOLLOWING IS NOT COVERED:** Damages or deterioration to cases, batteries, covers and cabinets; the cost of repairs, replacement and labor of which shall be borne by the purchaser even if occurring during the WARRANTY period.
5. Any equipment or parts which are claimed to be defective under this WARRANTY must be sent to the Encore Service center with “**proof of purchase**” at the purchaser’s expense prior to such return, a Return Authorization Number needs to be obtained. Encore will return the equipment, charges prepaid. Warranty Service can be provided through the dealer where the equipment is originally purchased.
6. Any unexpired WARRANTY shall be applicable to equipment and parts in the possession of the original purchaser only.
7. THIS WARRANTY IS IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.
8. Encore shall not be liable, under the foregoing WARRANTIES or otherwise, for: Any personal injury or property damage of any kind to the purchaser or property, its employees or agents or anyone else whomsoever resulting directly or indirectly from the use or presence of the equipment or parts; Consequential damages of any kind; any inability of the purchaser to use the equipment.

****IMPORTANT NOTE: Any damages resulting from an installation performed by anyone other than a professional installation technician authorized by Encore will void the product's Limited Lifetime Warranty.**

It is the purchaser's responsibility to register this product for any future warranty service.

Warning: Some batteries may contain Perchlorate

What is Perchlorate? Perchlorate is both a naturally occurring and manmade contaminant increasingly found in groundwater, surface water and soil. Most perchlorate manufactured in the U.S. is used as an ingredient in solid fuel for rockets and missiles. In addition, perchlorate-based chemicals are also used in the construction of highway safety flares, fireworks, pyrotechnics, explosives, **common batteries**, and automobile restraint systems. Perchlorate contamination has been reported in at least 20 states. Perchlorate greatly impacts human health by interfering with iodide uptake into the thyroid gland. In adults, the thyroid gland helps regulate the metabolism by releasing hormones, while in children; the thyroid helps in proper development. Perchlorate is becoming a serious threat to human health and water resources. **"Perchlorate Material – Special handling may apply."** For more information, go to <http://www.dtsc.ca.gov/hazardouswaste/perchlorate/>

Notes :