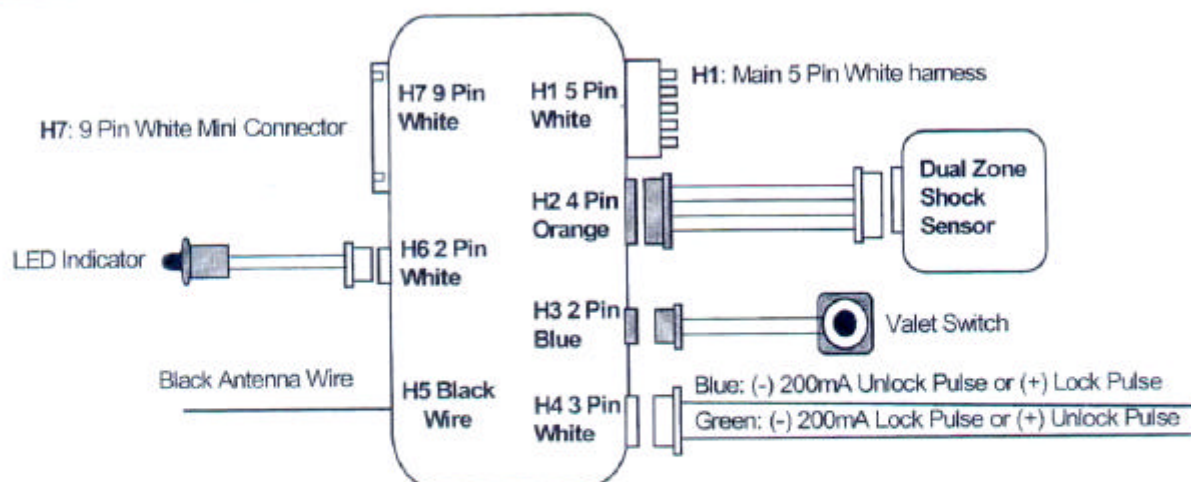
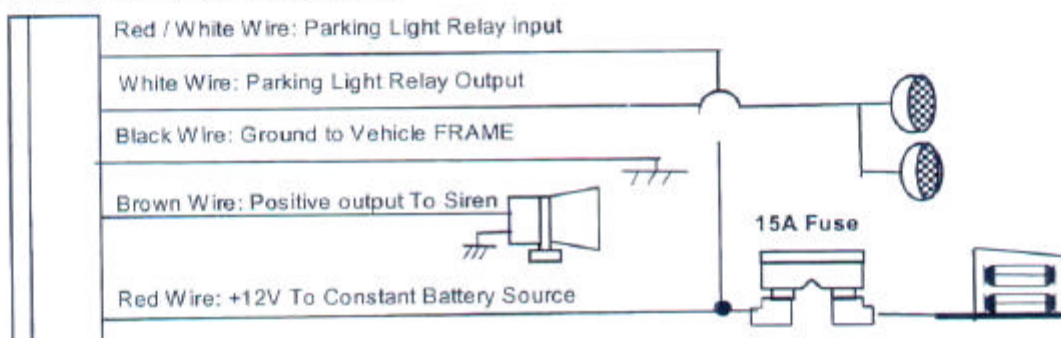


MODEL ALA550
REMOTE CONTROL AUTO ALARM SYSTEM
INSTALLATION & OPERATION INSTRUCTIONS

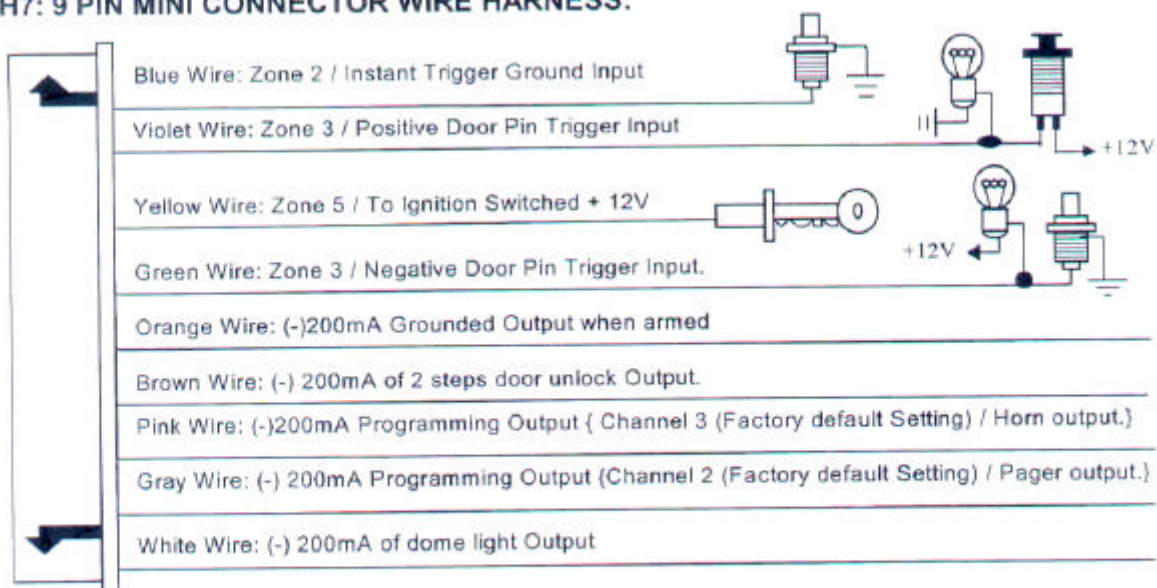
WIRING DIAGRAM



H1: MAIN 5 PIN WIRE HARNESS:



H7: 9 PIN MINI CONNECTOR WIRE HARNESS:



WIRING

Keep wiring away from moving engine parts, exhaust pipes and high-tension cable. Tape wires that pass through holes on the firewall to prevent fraying. Watch out sharp edges that may damage wires and causes short circuit.

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

H1. MAIN 5 PIN WIRE HARNESS:

H1/1. RED / WHITE WIRE – PARKING LIGHT RELAY INPUT --

The RED/WHITE wire is the input to the flashing parking light relay. The connection of the RED/WHITE wire will determine the output polarity of the flashing parking light relay.

If the vehicle you are working on has +12volt switched parking lights, you don't need connect this wire. This wire already connected to +12volt.

If the vehicle's parking lights are ground switched, cut the RED/WHITE wire, connect the RED/WHITE wire to chassis ground.

H1/2. 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.

H1/3. BLACK WIRE – SYSTEM GROUND --

This is 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.

H1/4. BROWN WIRE – SIREN DRIVE OUTPUT --

This is the positive (+) output connection for the siren. Current capacity is 2 amps. Make connection to the (+) red wire from the siren. Make the (-) black wire coming from the siren to a good chassis ground.

H1/5. RED WIRE – SYSTEM POWER (+12V CONSTANT) --

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

H2. 4 PIN ORANGE CONNECTOR FOR 2 STAGE SHOCK SENSOR



Route the red, black, blue and green wires in the 4 pin white connector from shock sensor to the control module, and plug one end into the shock sensor, and the other end into the mating white connector on the side of the module.

H5. RF ANTENNA - BLACK THIN WIRE

The black thin wire on control module is the receiver antenna wire. Antenna placement is very important! Ensure that it is unwrapped and stretched out with the last 6" straight and keep it away from large metal objects or chassis for best reception.

H7. 9-PIN MINI CONNECTOR WIRE HARNESS.

H7/1. BLUE WIRE – GROUND INSTANT TRIGGER INPUT --

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

H7/2. VIOLET WIRE – POSITIVE DOOR SWITCH SENSING INPUT--

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.

H7/3. YELLOW WIRE – TO IGNITION SWITCHED +12V --

This wire is connected to a switched 12 volts source. This wire should receive "12 volts" when the ignition key is in the "ON" and "START" position. When the ignition is turned "OFF", this wire should receive "0" voltage.

H7/4. GREEN WIRE -- NEGATIVE DOOR SWITCH SENSING INPUT --

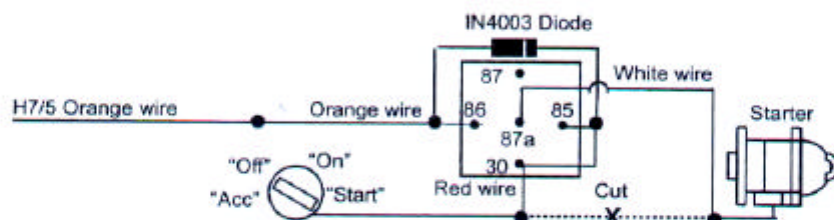
This wire is the ground trigger input wire for negative door pin switch. This wire is connection for "grounding" type factory door pins locate the "common wire" that connects the door pin switches. Make the connection of the GREEN Wire here.

H7/5. 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.

- Find the wire from the starter solenoid, (usually located on the starter) and going to the ignition switch.
- When found, use voltmeter, connect one probe of the voltmeter to ground and connect the other end of the probe to the starter wire, it should receive "12 volts" only when the ignition key in the "START" position.
- After locating the correct wire, cut it in half, try to start the vehicle. The engine should not "crank over".
- When the extend wires are needed, they must be exactly same gauge as the cut wire. Connect the cut wire from the key switch to the RED wire (pin #30) of the relay, and connect the starter wire to the WHITE wire (pin #87a) of the relay.
- Connect the ORANGE Wire from the control module to the ORANGE wire (pin #86) of the relay.

NOTE: If more than one electronic device will be connected to the ORANGE Wire, it will be necessary to isolate the connection of each device control wires with a 1N4001 diode.



H7/6. BROWN WIRE -- (-) 200mA 2 STEPS UNLOCK OUTPUT --

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.

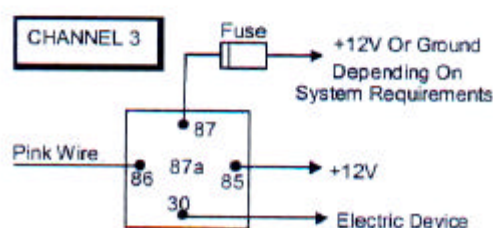
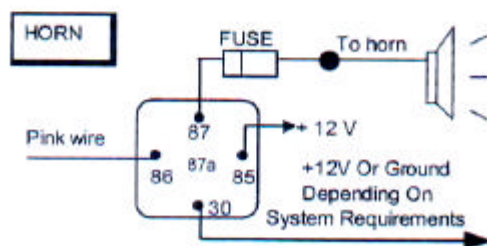
H7/7. PINK WIRE -- (-) 200mA TIMER CONTROL CHANNEL 3 / HORN OUTPUT --

TIMER CONTROL CHANNEL 3 OUTPUT (Factory default setting on momentary grounded)

This wire is built-in user-programmable timer output provides a ground through this wire. Press the button on the transmitter. 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! (See Alarm Feature III -- 5 Programming)

HORN OUTPUT (See Feature III -- 5 Programming)

This wire is provided to use the existing vehicle's horn as the alarm system's optional's warning audible device. It's a transistorized low current output, and should only be connected to the low current ground output from the vehicle's horn switch. When the system is triggered, the horn will sound.

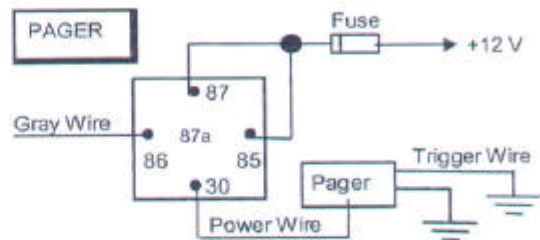
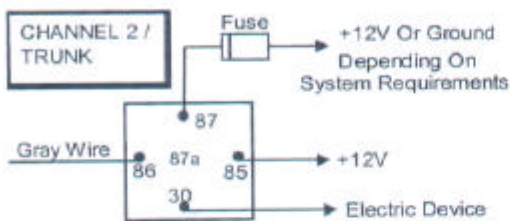


H7/8 . GRAY WIRE – (-) 200mA TIMER CONTROL CHANNEL 2 / PAGER OUTPUT – TIMER CONTROL CHANNEL 2 OUTPUT (Factory default setting on 1 second pulse grounded)

This will become a 1 second pulse ground by activate channel 2 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. This output can also be programmed to provide the following type of output: momentary, latched, latched-reset with ignition, 30-second and 60-second timed. (See Alarm Feature III - 3 Programming)

PAGER OUTPUT (See Feature III – 3 Programming)

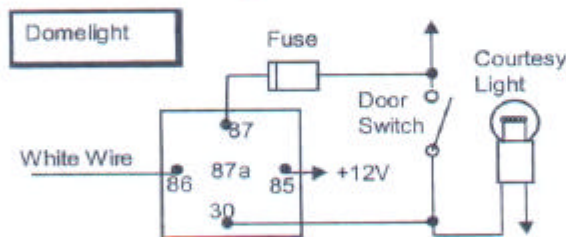
This wire provides a negative output, when the alarm triggered. The current capacity of this wire is 200mA. For optional electrical device in this system, please connected to an additional relay. (I.E. Pager interface....)



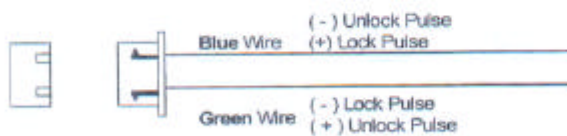
H7/9. WHITE WIRE – (-) 200mA DOME LIGHT CONTROL OUTPUT –

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.

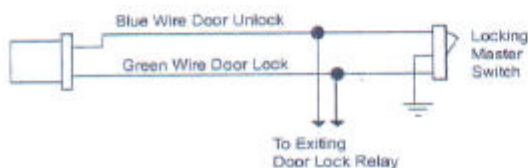
- Upon disarming, the interior lights will remain on for 30 seconds.
- If the vehicle is violated, the interior light will flash for the same duration as the siren.



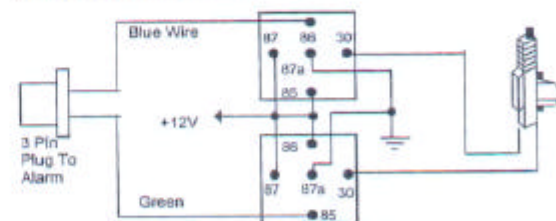
H4. 3 PIN DOOR LOCK HARNESS:



NEGATIVE TRIGGER DOOR LOCK SYSTEM



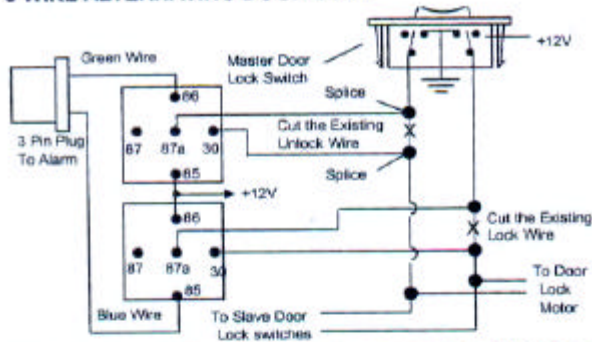
INSTALL NEW DOOR LOCK MOTOR



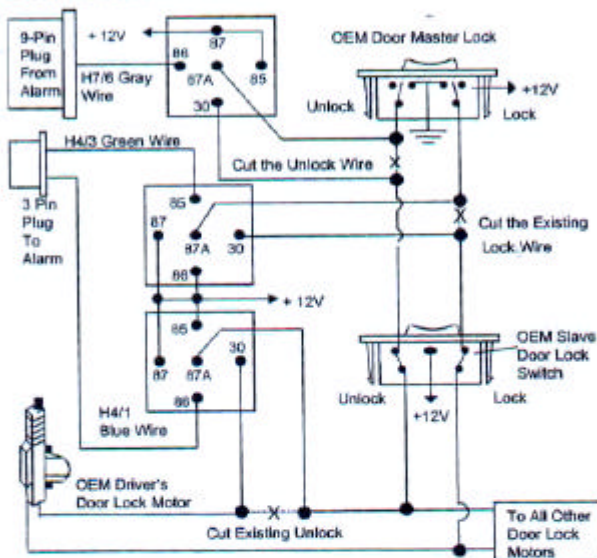
POSITIVE TRIGGER DOOR LOCK SYSTEM



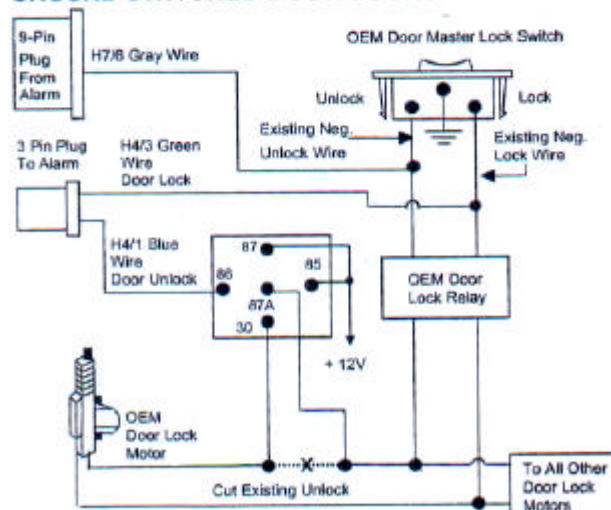
5-WIRE ALTERNATING DOOR LOCK



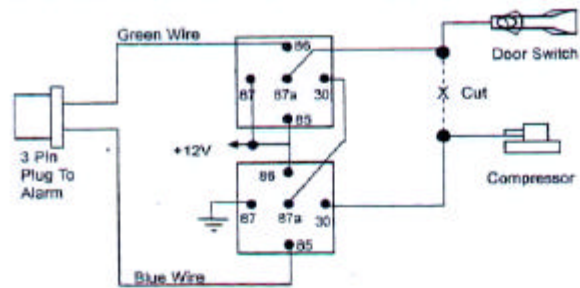
2 STEP DOOR UNLOCK WIRE CONNECTION FOR 5 WIRE ALTERNATING DOOR LOCKS



2 STEP DOOR UNLOCK WIRE CONNECTION FOR GROUND SWITCHED DOOR LOCKS



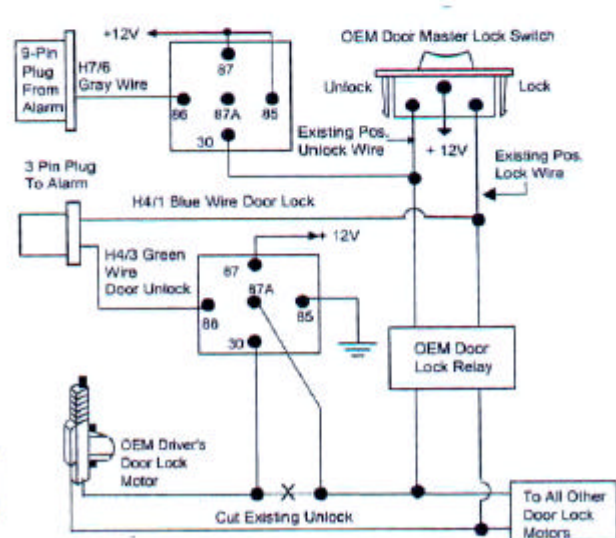
VACUUM OPERATED CENTROL LOCKING



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 seconds. (See Feature II - 1 Programming.)

2 STEP DOOR UNLOCK WIRE CONNECTION FOR POSITIVE SWITCHED DOOR LOCKS



PROGRAMMING

A. THE TRANSMITTERS:

Enter:

1. Turn the Ignition 'switch 'OFF/ON' 3 TIMES and stay in ON position. Within 15 seconds.
2. Push the Valet switch 3 times and hold it until a long chirp is hearing then release the valet switch. You are now in the Transmitter programming mode.

Program:

1. Press button on one of the transmitter until the siren responds with a confirming chirp the first transmitter is now programmed.
2. Press button on the second transmitter until the siren responds with a confirming chirp, the second transmitter is now programmed.
3. Apply the same procedure to program 3rd and 4th

Exit: Turn Ignition to 'OFF' position, or leave it for 15 seconds. A 3 long chirps to confirm exit.

Note: If more than 4 transmitters programmed, the system only kept the last 4 transmitters.

B. ALARM FEATURES PROGRAMMING:

ALARM FEATURE "I" PRORAMMING:

1. Turn the Ignition 'switch 'ON/OFF' 3 TIMES and stay in OFF position.
2. Push the Valet switch 2 times and hold it until **one** chirp with a long chirp is hearing then release the valet switch. You are now in the Alarm feature 'I' programming mode.
3. Press and release the transmitter button 'A' corresponding to the feature 'A' 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 'A' again to change the feature. Simple keep re-depressing the transmitter button 'A' again until the module advances to your desired setting.
 - a. In this case, Press button 'A' again, the module would advance to [2] LED flash, [2] chirp. Press button 'A' again, the module would advance to [3] LED flash, [3] chirps etc.
4. Depress the transmitter button 'B' corresponding to the feature 'B' you wants to program.

Press Transmitter Button	One Chirp / LED one pulse Factory Default Setting	Two Chirps / LED two pulse	Three Chirps / LED three pulse	Four Chirps / LED four pulse
1 	All Chirps on	Siren Chirps on only	Horn Chirps on only	All Chirps off
2 	Automatic Rearm on	Automatic Rearm off		
3 	With Door Ajar error chirp	Bypass 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. A 3 long chirps to confirm exit.

ALARM FEATURE "II" PRORAMMING:

1. Turn the Ignition 'switch 'ON/OFF' 3 TIMES and stay in OFF position.
2. Push the Valet switch 4 times and hold it until **two** chirps with a long chirp is hearing then release the valet switch. You are now in the Alarm feature 'II' programming mode.
3. Press and release the transmitter button 'A' corresponding to the feature 'A' you want to program.

Press Transmitter Button	One Chirp / LED one pulse Factory Default Setting	Two Chirps / LED two pulse	Three Chirps / LED three pulse	Four Chirps / LED four pulse
1 	0.8-second Door lock pulses.	3.5-second Door lock pulse.	Double pulse unlock	
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 *	Pathway illumination feature "off"	Parking light "on" for 30- second upon an unlock signal	Parking light "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. A 3 long chirps to confirm exit.

ALARM FEATURE "III" PRORAMMING:

- 1 Turn the Ignition 'switch 'ON/OFF' 3 TIMES and stay in OFF position.
- 2 Push the Valet switch 6 times and hold it until three chirps with a long chirp is hearing then release the valet switch. You are now in the Alarm feature 'III' programming mode.
- 3 Press and release the transmitter button 'A' corresponding to the feature 'A' you want to program.

Press Transmitter Button	One Chirp / LED one pulse Factory Default Setting	Two Chirps / LED two pulse	Three Chirps / LED three pulse	Four Chirps / LED four pulse
1 	Transmitter can not Arm the System When Driving	Transmitter can be Arming the System When Driving		
2 	H1/4 Brown Wire = Constant Siren output for 6-tone siren	H1/4 Brown Wire = 5-second pulse Siren output for signal tone siren	H1/4 Brown Wire = Random pulse Siren output	H1/4 Brown Wire = Horn Output
3 	H7/8 Gray Wire Channel 2 Output = 1 second pulse output for trunk release.	H7/8 Gray Wire Channel 2 Output = Latch output	H7/8 Gray Wire Channel 2 Output = Timer controlled output	H7/8 Gray Wire = Pager output
4 *	* Button = PANIC Function.	* Button = Channel 3 Function.		
5 	H7/7 Pink Wire Channel 3 Output = Momentary output	H7/7 Pink Wire Channel 3 Output = Latched output	H7/7 Pink Wire Channel 3 Output = Timer programming (set to any interval between 1 second and 2 minutes.)	H7/7 Pink Wire = Horn output

ALARM FEATURE "IV" PRORAMMING:

- 1 Turn the Ignition 'switch 'ON/OFF' 3 TIMES and stay in OFF position.
- 2 Push the Valet switch 8 times and hold it until four chirps with a long chirp is hearing then release the valet switch. You are now in the Alarm feature 'IV' programming mode.
- 3 Press and release the transmitter button 'A' corresponding to the feature 'A' you want to program.

Press Transmitter Button	One Chirp / LED one pulse Factory Default Setting	Two Chirps / LED two pulse	Three Chirps / LED three pulse
1 	Exit the programming mode. (3 long chirp to confirm this exit.)		
2. 	Press & hold  button for 4 seconds to delete the sensor code	Wireless door / window sensor & PIR sensor programming mode	

3 	Override Without Password Pin Code / Press & hold  button for 4 seconds to delete the Password pin code	Override With Password Pin Code / Password pin code programming	
4 *	"TEST" Mode for Zone 2 Hood & Zone 3 Door Pin Switch	"TEST" Mode for Zone 4 / the Optional Sensor connected to 4 pin plug.	"TEST" Mode for Zone 1 / Wireless door/window sensor & PIR sensor

Exit: Turn Ignition to 'ON' position, or leave it for 15 seconds. A 3 long chirps to confirm exit.

Program The Wireless PIR Sensor or Wireless Door/Window Sensor.

This system has a very unique interfacing with optional sensor, to extend more protection, such as PIR (IR-70S) sensor or Door/Window sensor. (DS-70S)

For example, in your garage you can put a PIR for protection. (A device to detect person's movement in a protected area.) If system armed, a person walk through the detect area, the siren inside the car will alarming to raise the attention to the owner.

So the same thing applies in door/window sensor. (A device to detect door/window open.) you may put the sensor to the garage door or window. If system armed, a person opens the door or window, the siren will alarm.

Set the PIR and door/window sensor the same code if you use both of them.

Enter:

- Turn the Ignition 'switch' ON/OFF 3 TIMES and stay in OFF position.
- Push the Valet switch 8 times and hold it until **four** chirps with a long chirp is hearing then release the valet switch. You are now in the Alarm feature 'IV' programming mode.

Program:

- Press and release the transmitter  button once, [2] LED flash, [2] siren/horn chirp to indicate your are in features "Sensor Programming mode".
- Activate the sensor to let the system program it's code. [2] Chirps to confirm programmed. (Only one code could be program)

Delete:

Within 15 seconds, Again press and hold the transmitter  button for 4 seconds. A [1] long chirps to confirm deleted the sensor code.

Password Pin Code Setup:

Enter:

- Turn the Ignition 'switch' ON/OFF 3 times and stay in OFF position.
- Push the Valet switch 8 times and hold it until **four** chirps with a long chirp is hearing then release the valet switch. You are now in the Alarm feature 'IV' programming mode. You can program or delete the password pin code as below:

Program:

- Press and release the transmitter  button once, [2] LED flash, [2] siren/horn chirp to indicate your are in features "Password Pin Code Programming mode".
- Within 5 seconds, begin to enter your chosen first 9ths digit by pressing and releasing the valet Switch from 1 - 9 times.
- Within 15 seconds of the last entered 10ths digit, turn the Ignition switch to "ON" position.
- Within 15 seconds, enter your chosen second 10ths digit by pressing and releasing the valet Switch from 1 - 9 times.
- Finish by turning the ignition switch to "OFF" position.

If the new password code was accepted, the unit would report back the newly entered code, by flashing the LED, first indicating the first digit code has been memorized, pause and then the second digit code. The unit will report the new code three times with a one-second's pause between each code.

Note: If 15 seconds of inactivity expire, or if the ignition switch is turned "ON" for more then 5 seconds during of above steps, the unit will revert back to the last successfully stored code. A [3] long chirps to confirm exit. Will revert back to the last successfully stored code

Delete Password Pin Code / Override Without Password Pin Code (Factory default setting):

Within 15 seconds, press and hold the transmitter  button for 4 seconds. A one long chirps to confirm Deleted the Password Pin Code.