ALPINE MOBILE SECURITY WIRE COLOR CHANGES

Please make sure to pay special attention to new wire colors in ITALICIZED font.

PRIMARY WIRE HARNESS

Red - Main Battery Connection (+) 15A Fused
Connect to a constant 12 volt source. Connect this wire directly to the battery terminal. Do not share this power lead with any other components or accessories. Install an additional fuse in-line at the battery lead to protect against short circuits.

Yellow - Ignition (+)
The ignition lead is pre-wired to the starter interrupt relay. From the starter interrupt relay, connect the yellow wire to a 12 volt switched ignition source. When selecting the normally open (N.O.) starter interrupt find a "true" ignition source which shows 12 volts while cranking the engine.

Black - Chassis Ground (-)
Connect directly to a metal surface that has been cleaned from any paint or coating. This wire should be as short as possible and should not be connected directly to the battery.

Green - Door Switch Input (- or +)
Determine the vehicle's door pin polarity. The security system's factory default setting is for a negative trigger input. Refer to the feature programming section of this guide if a positive trigger input is required. Connect this wire to the vehicle's door pin wire.

Blue - Hood/Trunk Input (- or +)
Determine the vehicle's hood and/or trunk pin polarity. The security system's factory default setting is for a negative trigger input. Refer to the feature programming section of this guide if a positive trigger input is required. Connect this wire to the vehicle's hood and/or trunk wire.

White - Parking Light Flash Output (+) 10A
Connect this wire to the vehicle's positive triggered parking light wire. If a negative trigger is required, use a Bosch-type automotive relay to convert the positive light flash output to a negative type output.

Brown - Siren (+) 3A
Connect to the red wire of the siren. Connect the black wire of the siren to chassis ground. Use a relay if more than one siren will be used.

Orange - Armed Output (-) 200mA
Connect the orange wire to control an optional accessory that will be controlled when the security system is armed. Some examples might include devices such as window roll-up modules or additional protection sensors. Refer to the accessory's owner's manual for operation/installation instructions.

Gray/Blue, Gray, Yellow/Gray - Radar Sensor Harness [SEC-150R ONLY]
These wires terminate at a molex connector and is connected directly to the SEC-8346 Dual Sector Digital Radar Sensor included with the SEC-150R.

Orange/Black - Starter Interrupt Output (-) 200mA
The starter interrupt output is pre-wired to the starter interrupt relay. The starter interrupt relay can be configured as a normally open (N.O.) or normally closed (N.C.) circuit.

Normally Closed Starter Interrupt (N.C.) - This is the factory default setting. This configuration will assure that the vehicle will always start as long as the security system is disarmed, even in the event of a security system malfunction or component failure.

Normally Open Starter Interrupt (N.O.) - This configuration adds more security for the customer by not allowing the vehicle to start even if a would-be thief finds and destroys, disables or removes the main unit or main power connection. Inside the main unit is a jumper labeled JP1. This is the only jumper selection inside the main unit and will select either N.O. or N.C. starter interrupt operation. The factory default is N.C., or in the "OFF" position. To select the N.O. configuration, place jumper JP1 in the "ON" position. When using this feature, it is important that the yellow (ignition) wire be connected to a "true" ignition source.

3-PIN DOOR LOCKS HARNESS

3 Pin Connector Blue - Unlock (Driver's) [-] (+ lock) 200mA
Connect this wire to the vehicle's negative trigger door UNLOCK switch. If so desired, this wire can be used to only unlock the driver's door, while all other doors are unlocked via the white/blue wire. (Also functions as the vehicle's positive door LOCK switch trigger.)

3 Pin Connector Green - Lock [-] (+ unlock) 200mA
Connect this wire to the vehicle's negative trigger door LOCK switch. (Also functions as the vehicle's positive door UNLOCK switch trigger.)

3 Pin Connector White/Blue - All Doors Unlock (-/+) 200mA
Connect this wire to the vehicle's negative (or positive, selectable in the feature programming setup) trigger door UNLOCK switch to unlock all doors.

AUXILIARY WIRE HARNESS

Blue/Yellow - Dome Light Surveillance Output (-) 200mA - Use Relay
Determine the polarity of the dome light trigger input. Use a Bosch-type automotive relay to trigger the interior domelight to turn on when the system is disarmed. Connect as follows:

Negative Type Domelight Trigger - Connect the blue/yellow wire to pin 85 of the relay. Connect a fused 12 volt source to pin 86. Connect chassis ground to pin 87. Lastly, connect the vehicle's dome light wire to pin 30 of the relay.

Positive Type Domelight Trigger - Connect the Blue/Yellow wire to pin 85 of the relay. Connect a fused 12 volt source to pin 86 and pin 87. Lastly, connect the vehicle's dome light wire to pin 30 of the relay.

Yellow/Green - EXT1 Output (-), Yellow/Black - EXT2 Output (-) 200mA
These outputs can be configured for 1 second or latched operation when the EXT1 or EXT2 is activated. See the feature programming setup section.

Yellow/Brown - EXT3 Output (-) 200mA
This output can be configured for continuous or 1 second operation when the EXT3 is activated. See the feature programming setup section.

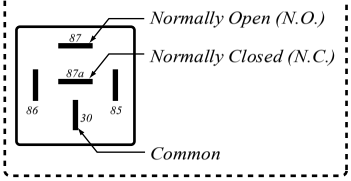
Black/White - Ignition/Impact Disable Input (-)
Connect this wire to the optional remote start module's active-while-ground output. This will inhibit the ignition and impact sensors while the remote start is running.

Yellow/Blue - Warning Output (-) 200mA [SEC-150R ONLY]
This wire can be connected to control an optional accessory when the pre-warn or warning zone is activated. Some examples might include paging systems, window modules, etc.

Purple - Alarming Output (-) 200mA [SEC-150R ONLY]
This wire can be connected to control an optional accessory when the system enters the alarming mode. Some examples might include horn-honk relays, fog-light systems, paging systems, window modules, etc.

Black - Ground

Standard Relay for Reference



Optional Relay or Accessory — 1. Yellow/Green - EXT1 Output (-) 200mA, 1 Sec or Latched Output

Optional Relay or Accessory — 2. Yellow/Black - EXT2 Output (-) 200mA, 1 Sec or Latched Output

Optional Relay or Accessory — 3. Yellow/Brown - EXT3 Output (-) 200mA, Continuous or 1 Sec Output

Optional Relay or Accessory — 4. Blue/Yellow - Dome Light Surveillance Output (-) 200mA

Optional SEC-8205 — 5. Blue/Green - Digital Pager Output (Optional)

Optional Remote Starter — 6. Black/White - Ignition/Impact Disable Input (-)

Optional Relay or Accessory — *7. Yellow/Blue - Warning Output (-) 200 mA (SEC-150R)*

Optional Relay or Accessory — *8. Purple - Alarming Output (-) 200 mA (SEC-150R)*

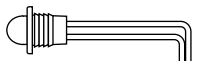
Receiving Antenna

Keep the main unit's receiving antenna as straight as possible.

If the main unit is installed under the dash, make sure that it is professionally mounted in a secure location and hidden out of plain sight.

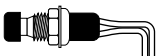
Crystal Blue Status LED (1/4" Drill Bit)

Consult the customer on LED mounting options. Mount the LED in a location which is highly visible from all sides of the vehicle. Up to three Crystal Blue Status LEDs can be used in series (or up to 5 red LEDs).



Program/Valet Switch (1/4" Drill Bit)

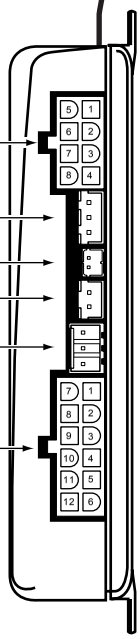
Mount the program/valet switch in a hidden location such as inside a glove box or coin box. The program/valet switch can trigger the security system into an alarming mode, so make sure it is mounted so that it is not accidently pressed by foreign objects.



Door Lock Circuit — 1. Green - Lock (-) [+ unlock) 200mA

Driver's Door Unlock Circuit — 2. Blue - Unlock [driver's] (-) [+ lock] 200 mA

All Doors Unlock Circuit — 3. White/Blue - All Doors Unlock (-/+) 200 mA



Electronic Impact Sensor

For best performance, screw the sensor directly to a flat metal surface such as a firewall or a dash support bracket. Do not mount the sensor inside the engine compartment.

Electronic Impact Sensor (included with both SEC-100S and SEC-150R)

15A — 1. **Red - 12V Power**

12V Negative Ground (- / +) — 15A Fuse Max

Ignition Switch — 2. **Yellow - Ignition** (N.O. Starter Cut must use True Ignition)

Yellow - Ignition

3. **Black - Ground**

4. Gray/Blue - Radar Sensor Control (SEC-150R)

Door Pin Switch — 5. **Green - Door Sensor Input** (- or +)

Starter Cut Relay

Hide the starter cut relay so that it is not in plain sight when looking up from under the dash. Tape off any exposed wiring to camoflauge it against other wiring in the vehicle.

Red/White - N.O. Connection (87)

Red/Yellow - N.C. Connection (87A)

Red - To Key (30)

Parking Light Switch — 10A — 6. **White - Light Flash Output** (+)

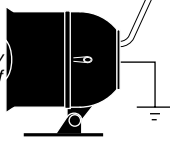
10A Fuse Max

7. **Brown - Siren Output** (+) 2A Output

Optional Accessory — 8. Orange - Armed Output (-) 200mA

Soft Chirp Siren

Mount in engine compartment away from heat sources. Point the bell of the siren downward so that it does not collect water or moisture.

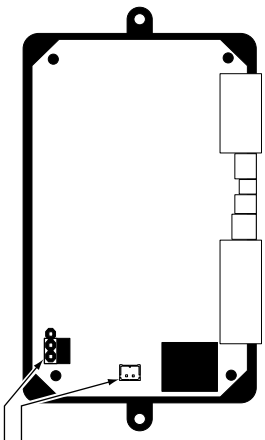


9. Yellow/Gray - Radar Sensor Power (SEC-150R)

10. Orange/Black - Starter Cut Output (-) 200mA

11. Gray - Radar Sensor Trigger (SEC-150R)

Hood/Trunk Pin Switch — 12. **Blue - Hood/Trunk Input** (- or +)



Infrared Audio Interface

Connects to optional SEC-8348 Infrared Audio Control Interface for control of Alpine remote-ready head units.

Selectable Starter Cut Jumper

ON = Normally Open
OFF = Normally Closed
(factory default position is Normally Closed)

SEC-8346
Dual Sector Digital Radar Sensor
included with the SEC-150R
(not compatible with SEC-100S)

For best performance, mount the radar sensor using velcro or double-stick tape in the center of the vehicle facing up. Keep the ground wire length to a minimum and avoid coiling up any wires near the sensor.

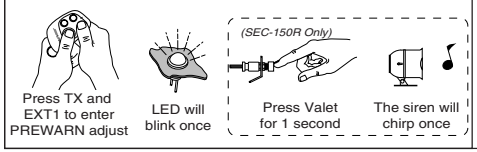
ALPINE

Impact Sensor Adjustment

Enter Valet Mode

The system must be in the disarmed state. Place the system into the valet mode through the valet/disarm switch. The status LED will illuminate for one second.

Enter Programming Mode

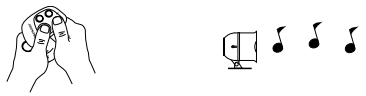


Within five seconds, press and immediately release (do not hold) the TX/PANIC and EXT1/VALET buttons simultaneously. The status LED will illuminate once again. (SEC-150R additional procedure: Press the valet/disarm switch once again. The siren will chirp once.) The system is now in the impact sensor sensitivity adjustment mode for the PRE-WARN sensitivity setting.

PREWARN Adjustment

Press and release the TX/PANIC button to increase the pre-warn sensitivity. Press and release the EXT1/VALET BUTTON to decrease the pre-warn sensitivity. When the maximum or minimum sensitivity is reached, the siren will chirp twice. To test the pre-warn sensitivity level, strike the vehicle with a light impact. The status LED will blink to indicate the pre-warn sensitivity level has been exceeded.

PREWARN Level Save



When the pre-warn sensitivity level is acceptable, press and release the TX/PANIC and EXT1/VALET buttons simultaneously to adjust the final trigger sensitivity level. The siren will chirp three times to indicate that you are in the final trigger sensitivity adjustment mode.

FINAL TRIGGER Adjustment

Press and release the TX/PANIC button to increase the final trigger sensitivity. Press and release the EXT1/VALET button to decrease the final trigger sensitivity. Each time the sensitivity is adjusted, the siren will chirp once. When the maximum or minimum sensitivity is reached, the siren will chirp twice. To test the sensitivity level, strike the vehicle with enough force in which you feel should trigger the system into an alarming state. The LED will blink three times indicating that the final trigger sensitivity level is exceeded.

FINAL TRIGGER Save & Exit

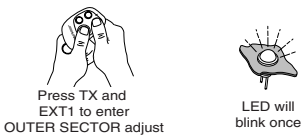
When the sensitivity adjustment procedure is completed, press and release the TX/PANIC and the EXT1/VALET buttons simultaneously. The status LED will blink twice and you will exit the adjustment mode. The system will return to the disarm state.

Radar Sensor Adjustment
(SEC-150R Only)

Enter Valet Mode

The system must be in the disarmed state. Place the system into the valet mode through the valet/disarm switch. The status LED will illuminate for one second.

Enter Programming Mode

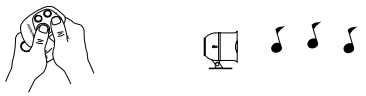


Within five seconds, press and immediately release (do not hold) the TX/PANIC and EXT1/VALET buttons simultaneously. The status LED will illuminate once again. The system is now in the radar sensor sensitivity adjustment mode for the OUTER SECTOR sensitivity setting.

OUTER SECTOR Adjustment

Press and release the TX/PANIC button to increase the outer sector sensitivity. Press and release the EXT1/VALET BUTTON to decrease the outer sector sensitivity. When the maximum or minimum sensitivity is reached, the siren will chirp twice. To test the outer sector sensitivity level, wave your hands around the windows of the vehicle. The status LED will blink to indicate the sensitivity level has been exceeded.

OUTER SECTOR Save



When the outer sector sensitivity level is acceptable, press and release the TX/PANIC and EXT1/VALET buttons simultaneously to adjust the inner sector trigger sensitivity level. The siren will chirp three times to indicate that you are in the INNER SECTOR trigger sensitivity adjustment mode.

INNER SECTOR Adjustment

Press and release the TX/PANIC button to increase the inner sector trigger sensitivity. Press and release the EXT1/VALET button to decrease the inner sector trigger sensitivity. Each time the sensitivity is adjusted, the siren will chirp once. When the maximum or minimum sensitivity is reached, the siren will chirp twice. To test the sensitivity level, insert your hand into an open window to ensure that the system will trigger. At the same time, ensure that the system does not trigger anywhere outside of the vehicle. The LED will blink five times indicating that the sensor has been triggered.

INNER SECTOR Save & Exit

When the sensitivity adjustment procedure is completed, press and release the TX/PANIC and the EXT1/VALET buttons simultaneously. The status LED will blink twice and you will exit the adjustment mode. The system will return to the disarm state.

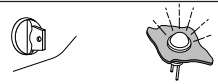
New Remote Control Coding

Note: The SEC-100S/150R can learn up to four remote control identification codes. When a new remote is coded, the security system will "bump out" the oldest code if the system originally contained four remote control identification

1

The system must be disarmed. Press and hold the valet/disarm switch *during the entire coding procedure.*

2

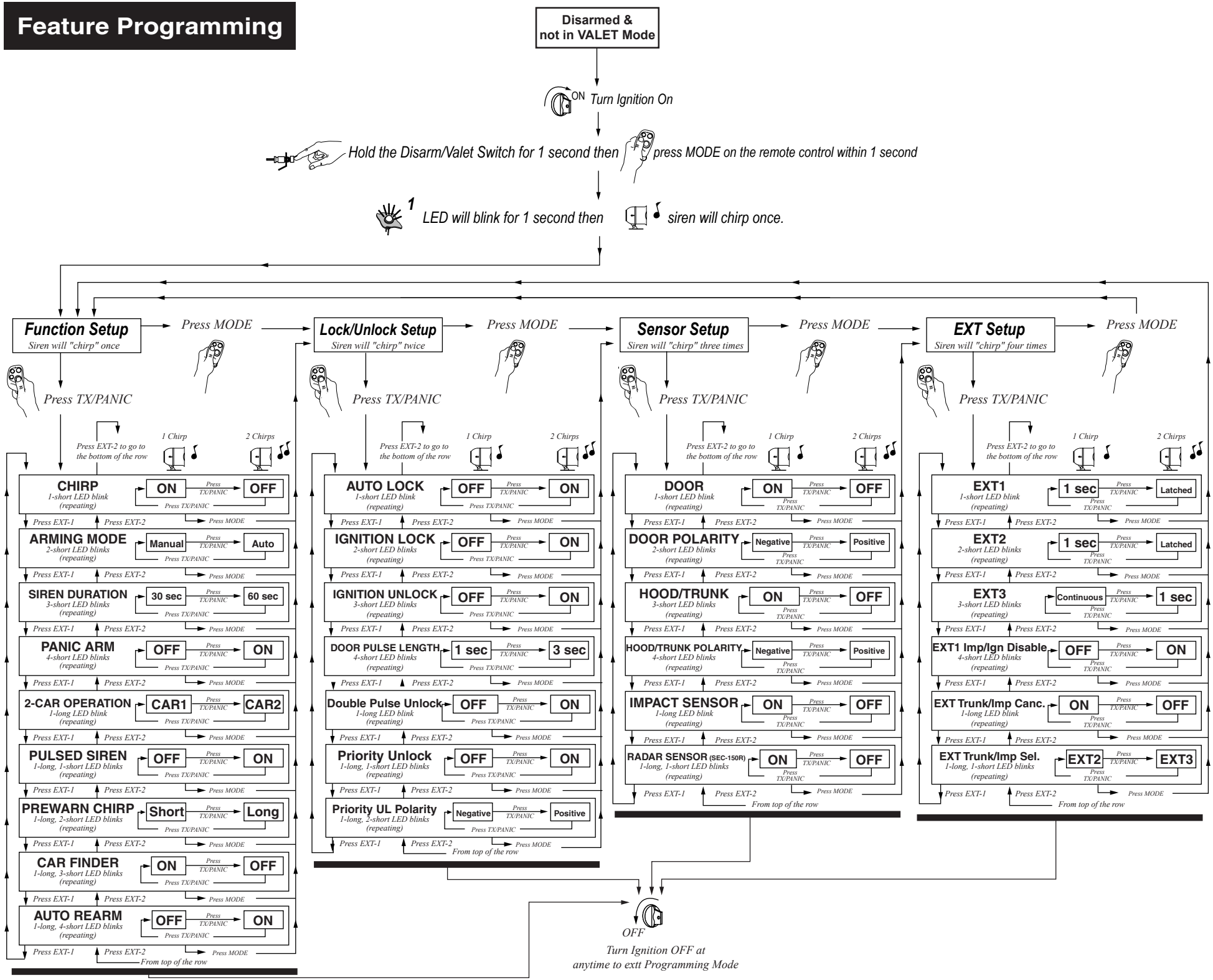


While holding down the valet/disarm switch, switch the ignition off and on three times (OFF - **ON** - OFF - **ON** -OFF - **ON**), leaving the ignition in the ON position. The LED will blink rapidly.

3

Press the TX/PANIC button on the new remote control that you wish to program. The siren will chirp twice to verify receiving the new remote control code.

4

Release the valet/disarm switch. The LED will stop blinking and the system will return to the disarm state.

Feature Programming