NOTE: This product is intended for installation by a professional installer only! Any attempt to install this product by any person other than a trained professional may result in severe damage to a vehicle’s electrical system and components.
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primary harness (H1) wire connection guide

primary harness wiring diagram

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<th>ORANGE</th>
<th>(-) 500 mA Armed Output</th>
</tr>
</thead>
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<tr>
<td>H1/2</td>
<td>WHITE</td>
<td>(+)/(-) Selectable Light Flash Output</td>
</tr>
<tr>
<td>H1/3</td>
<td>WHITE/BLUE</td>
<td>(-) 200 mA Channel 3 Programmable Output</td>
</tr>
<tr>
<td>H1/4</td>
<td>BLACK/WHITE</td>
<td>(-) 200 mA Dometlight Supervision Output</td>
</tr>
<tr>
<td>H1/5</td>
<td>GREEN</td>
<td>(-) Door Trigger Input, Zone 3</td>
</tr>
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<td>BLUE</td>
<td>(-) Instant Trigger Input, Zone 1</td>
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<tr>
<td>H1/7</td>
<td>VIOLET</td>
<td>(+) Door Trigger Input, Zone 3</td>
</tr>
<tr>
<td>H1/8</td>
<td>BLACK</td>
<td>(-) Chassis Ground Input</td>
</tr>
<tr>
<td>H1/9</td>
<td>YELLOW</td>
<td>(+) Switched Ignition Input, Zone 5</td>
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<tr>
<td>H1/10</td>
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<td>(+) Siren Output</td>
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<td>H1/11</td>
<td>RED</td>
<td>(+) Constant Power Input</td>
</tr>
<tr>
<td>H1/12</td>
<td>RED/WHITE</td>
<td>(-) 200 mA Channel 2 Output</td>
</tr>
</tbody>
</table>

primary harness wiring instructions

This guide describes in detail the connection of each wire. Also included are possible applications of each wire. This system was designed with the ultimate in flexibility and security in mind. Many of the wires have more than one possible function. Please read carefully to ensure a thorough understanding of this unit.

**H1/1 ORANGE (-) ground-when-armed output**

This wire supplies a (-) ground as long as the system is armed. This output ceases as soon as the system is disarmed. The orange wire is pre-wired to control the starter kill relay. It can supply up to 500 mA of current.

**NOTE:** If using the H1/1 Orange wire to activate an add-on accessory such as window automation, pager or voice module a 1Amp diode must be installed to ensure proper operation. Insert the diode as shown in the following diagram.

**Important:** Never interrupt any wire other than the starter wire.
H1/2 WHITE (+/-) light flash output

As shipped, the H1/2 WHITE wire should be connected to the (+) parking light wire. If the light flash polarity jumper is moved to the (-) position (see the Programming Jumper section of this installation guide), this wire supplies a (-) 200 mA output. This is suitable for driving (-) light control wires in Toyota, Lexus, BMW, some Mitsubishi, some Mazda, and other models.

**Note:** For parking light systems that draw 10 amps or more, the jumper must be switched to a (-) light flash output (see the Programming Jumpers section of this guide). A standard automotive SPDT relay must be used on the H1/2 light flash output wire.

**IMPORTANT!!** DO NOT connect this wire to a negative vehicle light flash wire before changing the programming jumper to the negative polarity position or damage to vehicle light circuit may occur.
H1/3 WHITE/BLUE 200 mA (-) channel 3 output
This wire provides a (-) 200 mA output whenever the remote button(s) controlling Channel 3 is pressed. This output can be programmed to provide the following types of output (see System Features Learn Routine section of this guide):

➤ A validity output will send a signal as long as the transmission is received.
➤ A latched output will send a signal continuously when the Channel 3 button(s) is pressed and released. The signal will continue until channel three is pressed again.
➤ A latched/reset with ignition output works similar to the latched output, but will also reset (output will stop) when the ignition is turned on and then off.
➤ A 30 second timed output will send a signal for 30 seconds when channel three is pressed. This output can be shut off during the 30-second period by pressing Channel 3 again.
➤ This output can also be programmed to provide a second unlock pulse when the unlock button is pressed a second time after disarming the system. This can be used to unlock the passenger doors when installing progressive door locks.

H1/4 BLACK/WHITE (-) 200 mA domelight supervision output
Connect the H1/4 wire to the optional domelight supervision relay as shown in the following diagram:

H1/5 GREEN (-) door trigger input
Most vehicles use negative door trigger circuits. Connect the green wire to a wire showing ground when any door is opened. When connecting to newer model vehicles there is generally a need to use individual door triggers. This wire will report Zone 3.
**NOTE:** If using a door trigger wire that has a delay, Advanced Menu 2, feature 6, or the Pro Security Programmer can be used to turn the notification of a bypassed [open] zone off.

**H1/6 BLUE** (-) instant trigger input

This input will respond to a negative input with an instant trigger. It is ideal for hood and trunk pins and will report on Zone 1. It can also be used with single-stage sensors. The H1/6 blue instant trigger wire can also be used to shunt sensors during operation of auxiliary channels or remote engine start. (See Bypassing Sensor Inputs section of this guide.)

**H1/7 VIOLET** (+) door trigger input

This type of dome circuit is used in many Ford vehicles. Connect the violet wire to a wire that shows (+12V) when any door is opened. This wire will report Zone 3.

**NOTE:** If using a door trigger wire that has a delay, Advanced Menu 2, feature 6, or the Pro Security Programmer can be used to turn open zone notification off.

**H1/8 BLACK** (-) chassis ground connection

Connect this wire to a clean, paint-free metal location (driver kick panel) using a factory bolt that DOES NOT have any vehicle component grounds attached to it. A screw should only be used when in conjunction with a two-sided lock washer. Under dash brackets and door sheet metal are not acceptable ground points. It is recommended that all security components be grounded at the same location.
**H1/9 YELLOW (+) ignition input**

Connect this wire to the (+) 12 volts ignition wire. This wire is pre-wired to the starter kill relay and must show (+) 12 volts with the key in RUN position and during cranking. Take great care that this wire cannot be shorted to the chassis at any point.

**H1/10 BROWN (+) siren output**

Connect this to the RED wire of the siren. Connect the BLACK wire of the siren to (-) chassis ground, preferably at the same point you connect the control module's BLACK ground wire.

**H1/11 RED (+)12V constant power input**

Before connecting this wire, remove the supplied fuse. Connect to the battery positive terminal or the constant 12V supply to the ignition switch.

**NOTE:** Always use a fuse within 12 inches of the point you obtain (+) 12V. Do not use the 15 fuse in the harness for this purpose. This fuse protects the module itself.
H1/12 RED/WHITE 200 mA (-) channel 2 output

When the system receives the code controlling channel 2 for longer than 1.5 seconds, the RED/WHITE will supply an output as long as the transmission continues. This is often used to operate a trunk/hatch release or other relay/driven function.

**IMPORTANT!** Never use this wire to drive anything but a relay or a low-current input! The transistorized output can only supply 200 mA of current. Connecting directly to a solenoid, motor, or other high-current device will cause it to fail.

**door lock harness (H2), 3-pin connector**

<table>
<thead>
<tr>
<th>H2/A</th>
<th>Green</th>
<th>(-) Lock, (+) Unlock Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>H2/B</td>
<td>Empty</td>
<td>Unless Using 451M</td>
</tr>
<tr>
<td>H2/C</td>
<td>Blue</td>
<td>(+) Unlock, (+) Lock Output</td>
</tr>
</tbody>
</table>

**Important!** The door lock outputs are low-current and should not be attached directly to any high-current device; they are only to be used to activate relays.
peripheral plug-in harnesses

LED, 2-pin WHITE plug

The LED operates at (+) 2 volt DC and plugs into the two-pin WHITE port. Make sure the LED wires are not shorted to ground as the LED will be damaged. Multiple LED’s can be used, but they must be wired in series. The LED fits into a 9/32-inch mounting hole. Be sure to check for clearance prior to drilling the mounting hole.

NOTE: Never use a BLUE LED in combination with a RED LED.

override switch, 2-Pin BLUE plug

The Override switch should be accessible from the driver’s seat. It plugs into the BLUE port on the side of the unit. Since the system features Override by using the remote, the button can be well hidden. Consider how the button will be used before choosing a mounting location. Check for rear clearance before drilling a 9/32-inch hole and mounting the button. The GRAY wire in the two-pin plug may also be used as a (+) hidden switch input and can be connected to any (+) switch in the vehicle. (See Feature Descriptions section of this guide.)
pro security programmer Interface, 3-Pin BLACK plug

The BLACK three-pin port is provided for programming of the unit. When using the Pro Security Programmer, it is possible to configure any and all of the programmable functions. For more information please refer to the guide packaged with the programmer.

mounting the receiver/antenna

Receiver/antenna position should be discussed with the vehicle’s owner prior to installation, since the antenna may be visible to the vehicle’s operator.

The best location for the receiver/antenna is centered high on either the front or rear windshield. For optimal range, the antenna should be mounted vertically. It can be mounted horizontally in relation to the windshield or under the dashboard away from metal, but range will be diminished. Metallic window tint can also affect range, so this should be a consideration when determining the mounting location.

After determining the best mounting location, follow these steps:

1. Clean the mounting area with a quality glass cleaner or alcohol to remove any dirt or residue.
2. Plug the receiver/antenna cable into the receiver/antenna.
3. Mount the receiver/antenna using the supplied double-sided tape.
4. Route the receiver/antenna cable to the control module and plug it into the four-pin antenna connector.

**Important**: To achieve the best possible range, DO NOT leave the antenna cable bundled under the dash. Always extend the cable full length during installation, regardless of the antenna mounting location.
shock sensor harness, 4-pin WHITE plug

**GREEN** (-) Multiplex Input
Inputs shorter than 0.8 seconds will trigger the warning response, while inputs longer than 0.8 seconds will trigger full alarm sequence and report Zone 4.

**NOTE:** If installing an optional dual-stage sensor, connect to the GREEN wire. The following diagram eliminates the need for diodes to isolate the sensors, as well as providing a separate zone for each sensor.

Diagram for adding optional dual stage sensor to GREEN wire (zone 4).

**BLUE** (-) Multiplex Input
Inputs shorter than 0.8 seconds will trigger the Warning response, while inputs longer than 0.8 seconds will trigger full alarm sequence and report Zone 2.

**RED** (+) 12V Constant and **BLACK** (-) Ground
Do not use these for anything besides the plug-in shock sensor.

**programming jumper**

(-) LIGHT FLASH OUTPUT • • (+) LIGHT FLASH OUTPUT (DEFAULT)
light flash jumper

This jumper is used to determine the light flash output. In the (+) position, the on-board relay is enabled and the unit will output (+)12V on the WHITE wire, H1/2. In the (-) position, the on-board relay is disabled. The WHITE wire, H1/2, will supply a 200 mA (-) output suitable for driving factory parking light relays.

**NOTE:** For parking light circuits that draw 10 amps or more, the jumper must be switched to a (-) light flash output. A standard automotive SPDT relay must be used on the H1/2 light flash output harness wire.

---

Important! **DO NOT** connect the H1/2 light flash wire to a negative vehicle light flash wire before changing the programming jumper to the negative polarity position or damage to vehicle light circuit may occur.

bypassing sensor inputs

There are times when you need to temporarily bypass all sensor inputs to the unit, such as when remote starting the vehicle. Anytime an auxiliary channel output is used, all inputs are bypassed for five seconds. During the five second bypass period, ground can be supplied to the H1/6 Blue wire without triggering the unit. When the five second bypass period ends, if the unit sees ground on the H1/6 Blue wire, all trigger inputs except the door trigger input will remain bypassed until five seconds after ground is removed from the BLUE wire. This can be done using the (-) output of a remote engine starting unit as shown in the following diagram:

---

module programming routine

The Module Programming Routine dictates how the unit operates. Due to the number of steps, they have been broken up into two menus. It is possible to access and change any of the feature settings using the Override switch. However, this process can be greatly simplified by using the Pro Security Programmer. Any of the settings can be changed and then assigned to a particular remote, up to four, a feature called individual recognition. Each time that particular remote is used to disarm the system, the assigned feature settings will be recalled. Individual recognition is only possible when programming the unit via the Pro Security Programmer.

If the system was previously programmed using the Pro Security Programmer, the learn routine may be locked. If the siren generates one long chirp when attempting to program the unit, the Module Programming Routine is locked and must be unlocked using the Pro Security Programmer.
1. Open a door. [The H1/5 GREEN wire or the H1/7 VIOLET wire must be connected.]

2. Ignition. Turn the ignition on, then back off: (The H1/9 YELLOW wire must be connected.)

3. Select a Menu. Press and HOLD the Override switch: (The Override switch must be plugged into the blue port.) After three seconds the siren will chirp once indicating entry to the Basic Features Menu #1. If this is the menu you wish to access, release the button and go on to Step 4. If the button is not released, you will jump to the Advanced Features Menu #2 and the siren will chirp twice. Once you have selected the desired menu, release the Override button and then proceed to Step 4.

4. Select a Feature. Press and release the Override switch the number of times corresponding to the feature you wish to change. For example, to access the third feature, press and release the switch three times. Then press the switch once more and HOLD it. The siren will chirp the number of times equal to the step you have accessed.

5. Program the Feature. While holding the Override switch, you can toggle the feature on and off using the remote. Pressing will select the one chirp setting. Pressing will select the two chirp setting. (See System Features Menus section of this guide.)

NOTE: The Override pulse count feature (2-5) and the Channel three timed output (2-9) have five possible settings each. Pressing will toggle through all the two-chirp settings.

6. Release the Override Switch.

Once a feature is programmed:

➤ Other features can be programmed within the same menu.
➤ Another menu can be selected.
➤ The learn routine can be exited if programming is complete.

To access another feature in the same menu:

1. Press and release the Override switch the number of times necessary to advance from the feature you just programmed to the next one you want to program.
2. Then press the Override switch once more and hold it.

For example, if you just programmed the third feature in the menu and you would like to program the seventh feature in the menu, you would press and release the Override switch four times and then press it once more and hold it. The siren would chirp seven times to confirm access to the seventh feature.

To select another menu:
1. Press and hold the Override switch.
2. After three seconds, the unit will advance to the next menu and the siren will chirp, indicating which menu has been accessed.

For instance, if you just programmed some features in Menu #1 (Basic Features) and you wish to program a feature in Menu #2, you press and hold the Override button. After three seconds, the siren chirps twice indicating access to Menu #2.

To exit the learn routine do one of the following:
➤ Close the open door.
➤ Turn the ignition on.
➤ No activity for longer than 15 seconds.
➤ Press the Override switch too many times.

**system features menus**

**menu #1 - basic features**

Items in bold text have been programmed to the default setting at the factory.

<table>
<thead>
<tr>
<th>Feature Number</th>
<th>One-Chirp Setting</th>
<th>Two-Chirp Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1</td>
<td>Active arming</td>
<td>Passive arming</td>
</tr>
<tr>
<td>1-2</td>
<td>Chirps ON</td>
<td>Chirps OFF</td>
</tr>
<tr>
<td>1-3</td>
<td>Ignition controlled door locks ON</td>
<td>Ignition controlled door locks OFF</td>
</tr>
<tr>
<td>1-4</td>
<td>Active locking only</td>
<td>Passive locking</td>
</tr>
<tr>
<td>1-5</td>
<td>Panic with ignition ON</td>
<td>No panic with ignition ON</td>
</tr>
<tr>
<td>1-6</td>
<td>0.8 second door lock pulses</td>
<td>3.5 second door lock pulses</td>
</tr>
<tr>
<td>1-7</td>
<td>Forced passive arming ON</td>
<td>Forced passive arming OFF</td>
</tr>
<tr>
<td>1-8</td>
<td>Automatic Engine Disable ON</td>
<td>Automatic Engine Disable OFF</td>
</tr>
<tr>
<td>1-9</td>
<td>Armed When Driving</td>
<td>Anti-Carjacking System</td>
</tr>
<tr>
<td>1-10</td>
<td>Anti-code grabbing ON</td>
<td>Anti-code grabbing OFF</td>
</tr>
</tbody>
</table>
menu #2 - advanced features

<table>
<thead>
<tr>
<th>Feature Number</th>
<th>One Chirp Setting</th>
<th>Two-Chirp Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-1</td>
<td>Siren</td>
<td>Horn honk</td>
</tr>
<tr>
<td>2-2</td>
<td>30-second siren duration</td>
<td>60-second siren duration</td>
</tr>
<tr>
<td>2-3</td>
<td>False alarm prevention Circuitry ON</td>
<td>False alarm prevention Circuitry OFF</td>
</tr>
<tr>
<td>2-4</td>
<td>Progressive door trigger</td>
<td>Instant door trigger</td>
</tr>
<tr>
<td>2-5</td>
<td>Override switch input: 1 pulse</td>
<td>Override switch input: 2-5 pulses</td>
</tr>
<tr>
<td>2-6</td>
<td>Open Zone Bypass Notice ON</td>
<td>Open Zone Bypass Notice OFF</td>
</tr>
<tr>
<td>2-7</td>
<td>Ignition-controlled domelight ON</td>
<td>Ignition-controlled domelight OFF</td>
</tr>
<tr>
<td>2-8</td>
<td>Single unlock pulse</td>
<td>Double unlock pulse</td>
</tr>
<tr>
<td>2-9</td>
<td>Channel 3: Validity</td>
<td>Channel 3: latched/latched, reset with ignition/30-second timed/ second unlock output*</td>
</tr>
</tbody>
</table>

*Second unlock is only available if Feature 2-8 is programmed to single pulse.

feature descriptions

The features of the system are described below. Features that have additional settings that can be selected only when programming with the Pro Security Programmer are indicated by the following icon.

menu #1 - basic features

1-1 ACTIVE/PASSIVE ARMING: When active arming is selected, the system will only arm when the remote is used. When set to passive, the system will arm automatically 30 seconds after the last door is closed. To alert the consumer of passive arming, the siren will chirp 20 seconds after the door is closed. This provides the consumer with an audible indication prior to the system actually arming. At the 30 second mark, the system will arm but the siren will not chirp.

1-2 Chirps ON/OFF: This feature controls the chirps that confirm the arming and disarming of the system.

1-3 IGNITION CONTROLLED DOOR LOCKS ON/OFF: When turned on, the doors will lock three seconds after the ignition is turned on (with doors closed) and unlock when the ignition is turned off. The Pro Security Programmer will display separate steps for ignition lock and ignition unlock. They can be programmed on or off independently.
1-4 ACTIVE/PASSIVE LOCKING: If passive arming is selected in step 1-1, then the system can be programmed to either lock the doors when passive arming occurs, or only lock the doors when the system is armed via the remote. Active locking means the system will not lock the doors when it passively arms. Passive locking means that the system will lock the doors when it passively arms.

**NOTE:** Remember, when passive arming is selected, the unit will chirp 20 seconds after the last door is closed. The system does not actually arm or lock the doors until 30 seconds after the door has been closed.

1-5 PANIC WITH IGNITION ON: This step controls whether or not the Panic Mode is available with the ignition on. In some states, there are laws prohibiting a siren from sounding in a moving vehicle. This feature makes the system compliant with these regulations.

1-6 DOOR LOCK PULSE DURATION: Some European vehicles, such as Mercedes-Benz and Audi, require longer lock and unlock pulses to operate the vacuum pump. Programming the system to provide 3.5 second pulses, will accommodate the door lock interface in these vehicles. The default setting is 0.8 second door lock pulses.

1-7 FORCED PASSIVE ARMING ON/OFF: To use this feature, passive arming must be selected in step 1-1. When turned on, forced passive arming will ensure that the system will passively arm, even if a zone is left open or invalid. Forced passive arming occurs one hour after the ignition is turned off.

1-8 AUTOMATIC ENGINE DISABLE ON/OFF: Automatic Engine Disable is a full-time, passive starter disable that works independently of the security system. When turned on, the orange, ground-when-armed output (H1/1) will go active 30 seconds after the ignition is turned off. The LED will flash at half its normal rate when the ignition is turned off to indicate that Automatic Engine Disable is active and will interrupt the starter in 30 seconds. Automatic Engine Disable does not occur in valet mode and can be bypassed using the emergency override procedure. The remote can also be used to disarm Automatic Engine Disable.

1-9 ARMED WHILE DRIVING/ANTI-CARJACKING SYSTEM: In the default setting (Armed While Driving), the system can be armed with the ignition on. When armed, the ground-when-armed is not active and the sensors are bypassed. The door triggers will remain active. If programmed to the Anti-Carjacking setting, this feature will be activated.

1-10 ANTI-CODE GRABBING ON/OFF: The system uses a mathematical formula to change its code each time the remote and receiver communicate. This makes the group of bits or “word” from the remote very long. The longer the word is, the easier it is to block its transmission to the unit. Disabling the Anti-Code Grabbing feature lets the receiver ignore that part of the transmitted word. As a result, the unit may have better range with Anti-Code Grabbing off.
menu #2 - advanced features

2-1 SIREN/HORN HONK: The system can be programmed to output pulses instead of a continuous output when the system is triggered. This is useful to honk the factory horn in applications where a siren is undesirable. Remember that the unit is only capable of supplying 1 amp of current. A relay will be required to interface with most factory horn systems.

2-2 SIREN DURATION 30/60 SECONDS: It is possible to program the unit to sound for 30 or 60 seconds during the triggered sequence. Some states have laws regulating how long a security system can sound. When using the Pro Security Programmer, the siren can be programmed to sound for any length of time ranging from 1 to 180 seconds. Using the SELECT button of the Pro Security Programmer will adjust the siren duration in one second increments.

2-3 FALSE ALARM PREVENTION CIRCUITRY ON/OFF: Stops repeated triggering of the same zone. If one zone is triggered three times in one hour, that zone is bypassed for one hour, starting from the time of the third trigger. During that hour, if the system detects a trigger on that zone again, the system resets the one hour timer. If one hour passes and the zone has not triggered again, the zone is activated and can trigger the system again. This circuitry monitors sensor inputs and the door trigger, but does not bypass the ignition trigger at any time. If false alarm prevention circuitry is turned off, the system will respond to repeated triggers on the sensor inputs and will do so indefinitely. Some states have laws regulating how many times a security system can trigger before it is considered a nuisance and the vehicle is towed away.

2-4 PROGRESSIVE DOOR TRIGGER ON/OFF: The system responds to a door trigger input with a progressive response. When the door is opened with the system armed, the siren will chirp 10 times prior to the full triggered sequence. The door trigger is still treated as an instant trigger and closing the door quickly will not prevent a full triggered sequence from occurring. If the progressive door trigger is programmed off, the full siren output will occur the moment the door is opened.

2-5 OVERRIDE PULSE COUNT ONE TO FIVE PULSES: The system can be programmed to count the number presses of the Override switch before disarming the security system or Anti-Carjacking system. The factory default setting is one pulse. The unit can be set for two to five pulses using the two-chirp setting to select the pulse count.

Hidden Switch Option: For added security, the GRAY wire on the two-pin Override switch can be connected to any switch in the vehicle that provides a positive (+) momentary pulse.

2-6 Open Zone Notification ON/OFF: when programmed on, any active zone input to the system during arming will notify you by generating a notification chirp. When programmed OFF, no open zone (bypass) notification chirps will be generated if any zone is active during arming.

2-7 Ignition-controlled DOMELIGHT SUPERVISION ON/OFF: If turned on, the system will turn on the domelight for 30 seconds when the ignition is turned off. The optional domelight supervision feature must be installed.

2-8 DOUBLE PULSE UNLOCK ON/OFF: Some vehicles require two pulses on a single wire to unlock the doors. When the double pulse unlock feature is turned on, the BLUE H2/C wire will supply two neg
ative pulses instead of a single pulse. At the same time, the GREEN H2/A wire will supply two positive pulses instead of a single pulse. This makes it possible to directly interface with double pulse vehicles without any extra parts.

2-9 CHANNEL 3 VALIDITY/LATCHED/LATCHED RESET WITH IGNITION/30 SECOND TIMED/SECOND UNLOCK OUTPUT: Channel 3 can be programmed for these output configurations. The unit is set to the default validity output. To change the configuration, use the two-chirp setting to toggle to the different configurations.

remote programming routine

The system comes with two remotes that have been taught to it. The system can store up to four different remote codes in memory. Use the following learn routine to add remotes to the system or to change button assignments if desired.

If the system was previously programmed using the Pro Security Programmer, the programming routine may be locked. If the siren generates one long chirp when attempting to program the unit, the programming routine is locked and must be unlocked using the Pro Security Programmer before proceeding.

1. **Open a door.** (The GREEN wire, H1/5, or the VIOLET, H1/7 must be connected.)

2. **Turn the ignition on.** (The YELLOW wire, H1/9 must be connected.)

3. **Select the receiver channel:** Press and release the Override switch the number of times necessary to access the desired channel.

   **NOTE:** If adding a remote, a button must be taught to the unit in the Channel 1 or Channel 4 position prior to programming other channels.

Press and hold the Override switch once more. The siren will chirp and the LED will blink the number of times corresponding to the channel that is accessed.
4. Press the remote button: While holding the Override switch, press the button from the remote that you wish to assign to the selected channel. The unit will chirp indicating successful programming. It is not possible to teach a remote button to the system more than once.

Channels #4-6: Channels 4 through 6 are used to assign the arm, disarm and panic functions to separate buttons on the remote control. Teaching a button to Channel 4 erases all information about that remote from memory. Any auxiliary functions that are desired will have to be reprogrammed. Similarly, if the remote is set up to use the separate arm, disarm and panic channels and a button from that remote is entered into channel one, the remote will be erased from memory, and the system will only recognize the button that was entered into channel one.

Channel #9: If any button from a known remote is programmed to Channel 9, all remotes will be erased from memory and the system features will revert to the default settings. This is useful in cases where the one of the customer’s remotes is lost or stolen. This will erase any lost or stolen remotes from the system’s memory. It can also be used to start from scratch if the remote buttons were programmed incorrectly.

5. Release. Once the code is learned, the Override switch can be released.

To exit the learn routine:

One long chirp indicates that Programming Routine has been exited. Programming Routine will be exited if any of the following occurs:

- Ignition is turned off.
- Door is closed.
- Override switch is pressed too many times.
- More than 15 seconds elapse between steps.

<table>
<thead>
<tr>
<th>Channel Number</th>
<th>Function</th>
<th>Wire Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Arm/Disarm/Panic</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Silent Arm-Disarm/Remote Override/Trunk Release</td>
<td>RED/WHITE</td>
</tr>
<tr>
<td>3</td>
<td>Remote engine start or other accessories</td>
<td>WHITE/BLUE</td>
</tr>
<tr>
<td>4</td>
<td>Arm only</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Disarm only</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Panic only</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Auto-learn Standard Configuration*</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Auto-learn Single Button Arm/Disarm Configuration*</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Delete all remotes</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** For Auto Learn Configurations, see Remote Configurations section of this guide.
remote configurations

The remotes can be programmed with the standard or single button arm/disarm configurations by using the Auto Learn functions in the Remote Programming Routine.

standard configuration

A remote that uses the standard configuration operates similarly to many factory keyless entry remotes. A standard configuration remote allows arming, disarming, and Panic Mode activation with separate buttons. When programmed for standard configuration, the remote buttons are assigned to the following functions:

- Operates Arm only
- Operates Disarm only
- Operates Silent Arm/Disarm and Channel 2
- Operates Panic
- Operates Channel 3

The standard configuration also allows the user to utilize Remote Sensor Bypass, a feature that cannot be accessed from a single button arm/disarm configuration remote.

single button arm/disarm configuration

When programmed for single button arm/disarm configuration, the remote buttons are assigned to the following functions:

- Operates Arm/Disarm/Panic
- Operates Channel 2 and Silent Mode
- Operates Channel 3
diagnostics

The system's microprocessor monitors and reports all active and violated zones when arming and disarming. LED flashes indicate the active or violated zone; siren chirps indicate system status.

arm/disarm diagnostics

The number of siren chirps will indicate the status of the system when arming and disarming. For information on which zone is active or has been violated refer to the Table of Zones.

system status chirps

<table>
<thead>
<tr>
<th>Action</th>
<th>Number of Chirps</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arm</td>
<td>1</td>
<td>System armed</td>
</tr>
<tr>
<td>Arm</td>
<td>1 (3 second delay), 1</td>
<td>System armed with an open zone(s) bypassed</td>
</tr>
<tr>
<td>Disarm</td>
<td>2</td>
<td>System disarmed</td>
</tr>
<tr>
<td>Disarm</td>
<td>4</td>
<td>System disarmed with tamper alert</td>
</tr>
<tr>
<td>Disarm</td>
<td>5</td>
<td>System disarmed false alarm prevention active</td>
</tr>
</tbody>
</table>

table of zones

<table>
<thead>
<tr>
<th>Zone No.</th>
<th>Trigger type</th>
<th>Input description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Instant</td>
<td>H1/6 BLUE wire. Connect to optional hood/trunk pins.</td>
</tr>
<tr>
<td>2</td>
<td>Multiplexed</td>
<td>BLUE wire of plug-in shock sensor. Inputs shorter than 0.8 seconds will trigger a Warning Zone response, while inputs longer than 0.8 seconds will instantly trigger the full alarm sequence.</td>
</tr>
<tr>
<td>3</td>
<td>Two-stage, progresses from warning to full alarm</td>
<td>Door switch circuit. H1/5 GREEN or H1/7 VIOLET.</td>
</tr>
<tr>
<td>4</td>
<td>Multiplexed Input</td>
<td>GREEN wire of plug-in shock sensor. Inputs shorter than 0.8 seconds will trigger a Warning Zone response, while inputs longer than 0.8 seconds will instantly trigger the full alarm sequence.</td>
</tr>
<tr>
<td>5</td>
<td>Two-stage (similar to doors)</td>
<td>Ignition input. H1/9 YELLOW.</td>
</tr>
</tbody>
</table>

*NOTE:* The Warning response does not report on the LED.
security diagnostics
The system stores the last two full triggers in memory. These are not erasable. Each time the unit sees a full trigger, the older of the two triggers in memory will be replaced by the new trigger. To access long-term event history:

1. With the ignition off, press and hold the Override switch.
2. Turn on the ignition.
3. Release the Override switch.
4. Press and release the Override switch within five seconds. The LED will flash in groups indicating the last two zones that triggered the unit. The LED will flash for one minute or until the ignition is turned off.

**NOTE:** The Warning Zone triggers are not stored to memory and will not be reported.

remote sensor bypass
Remote Sensor Bypass allows the operator to select which inputs and sensors are active during a particular arming cycle. For a full description of Remote Sensor Bypass operation for testing purposes refer to the Owner’s Guide.

optional anti-car jacking system
This optional feature is designed to disable a vehicle during a carjacking event. It must be programmed in the features menu and the Starter Kill must be installed for it to work properly. For operational instructions when testing this feature refer to the Owner’s Guide.

false alarm prevention circuitry
This circuitry bypasses any zone that triggers the system more than three times within a one-hour period. For a full description of operations refer to the Owner’s Guide.

**Important:** When testing the system’s sensor and trigger inputs reset the false alarm prevention circuitry by turning on the ignition after every third system trigger.
power-up

power-up ensures that when the system is powered up it will return to the same state it was in when power is disconnected. For a full description of power-up refer to the Owner’s Guide.

troubleshooting

Starter kill doesn’t work.

➤ Is the correct starter wire being interrupted? If the car starts when the starter kill relay is completely disconnected, the wrong starter wire has been cut and interrupted.
➤ YELLOW wire is not connected to true ignition. It is connected to an accessory circuit.

Shock sensor doesn’t trigger the alarm.

➤ Has the false alarm prevention circuitry been triggered? If so, you will hear five chirps when disarming. To check this, turn the ignition key on and off to clear the false alarm from memory, and then retest the shock sensor. For a detailed description of false alarm prevention circuitry, see Owner’s Guide.

Door input does not immediately trigger full alarm. Instead, I hear chirps for the first three seconds.

➤ That’s how the progressive two-stage door input works! This is the instant response feature of this system. Even if the door is closed immediately, the system provides an instant trigger by chirping, and the progressing to a constant siren.

Closing the door triggers the system, but opening the door does not.

➤ Have you correctly identified the type of door switch system? This happens often when the wrong door input has been used.

System will not passively arm until it is remotely armed and then disarmed.

➤ Are the door inputs connected? Is a blue wire connected to the door trigger wire in the vehicle? Either the green H1/5 or the violet H1/7 should be used instead.
Door input does not respond with the progressive trigger, but with immediate full alarm.

➤ What zone does the LED indicate? If the LED indicates that the impact sensor caused the trigger, the sensor may be detecting the door opening. Reducing the sensitivity or relocating the sensor can often solve this problem. If the LED indicates that the door caused the trigger, you may have programmed the progressive door trigger off. (See Feature 2-4 in the Feature Descriptions section of this guide.)

The Override switch doesn't work.

➤ Is it plugged into the correct socket? Check the System Features Learn Routine for the programmed Override pulse count.

Status LED doesn't work.

➤ Make sure that it is plugged in. (See Plug-In Harnesses section of this guide.) Is the LED plugged into the correct socket?
Get Started
Get Protected

Ungo Pro Security
661 W. Redondo Beach Blvd.
Gardena, Ca. 90247

800-GO-CLARION

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