



# **A10 SERIES**

## **VEHICLE SECURITY SYSTEM**

### **PRODUCT MANUAL**

## Limited Lifetime Warranty

This vehicle security system is warranted to the original purchaser, to be free from defects in material and workmanship. The manufacturer will repair or replace at its option, and free of charge for the first twelve (12) months, any part that proves defective in material or workmanship under normal installation, use, and service, provided the product is returned to the manufacturer freight prepaid. After the first 12 month warranty period there will be a maximum service charge of \$25.00 per calendar year (if required) for repair and/or replacement of any defective parts.

**A copy of the original purchase and installation receipt must accompany any products returned for warranty service.** Warranty is limited to defective parts and/or replacement parts only and excludes any incidental, and consequential damages connected therewith.

The manufacturer of this theft deterrent system makes no warranty against the theft of the vehicle or its contents. This warranty is not to be construed as an insurance policy against loss.

WARRANTY OF INSTALLATION LABOR, REMOVAL AND RE-INSTALLATION CHARGES ARE NOT THE RESPONSIBILITY OF THE MANUFACTURER.

**Note: This Warranty is voided if the product was not installed by an Authorized ScyTek Dealer.**

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## About Your System

Congratulations on your purchase of this state-of-the-art vehicle security system from ScyTek Electronics. With proper installation this system will provide superior protection and performance for many years to come.

### System Contents:

- Main Unit
- Two 2-Button Remote Transmitters
- High Output 6-tone Siren
- Dual Stage Shock Sensor
- Status LED
- Valet Switch

### Options and Accessories\*

This ScyTek system includes several optional inputs and outputs allowing the creation of a completely personalized security and convenience system by offering many optional features such as:

- |                            |                               |
|----------------------------|-------------------------------|
| • Remote Door Locking      | • Remote Car Start            |
| • Two Stage Door Unlocking | • Power Trunk / Hatch Release |
| • Starter Defeat           | • Radar Sensor                |
| • Horn Honk                | • Back-up Battery Siren       |
| • Illuminated Entry        |                               |

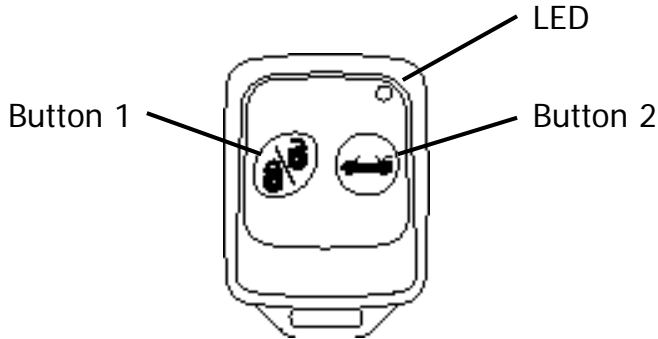
**\*May require additional parts and/or labor, see store for details.**

### PLEASE NOTE:

Some of the features described in this manual may require additional parts and/or labor, and may not be included as part of the standard installation of this unit. Additionally, many features of this security system have selectable options that must be activated or programmed during the system's installation. These items will be identified in the following sections. Please discuss these features and any questions you may have regarding the installation of this product with Your Authorized Dealer.

# Remote Transmitters

## ***Remote Transmitter Description***



The Astra A10 is supplied with (2) two-button Remote Transmitters used to control system operations.

*Button 1* Arms and Disarms the system and when held for 2 seconds, activates the system's Panic feature. Button 1 also locks and unlocks the doors when the system is in Valet Mode.

*Button 2* Arms and Disarms the system silently and when held for 2 seconds or more, activates the Auxiliary 1 output. This output will remain on for as long as the button is pressed.

## ***Adding/Replacing Transmitters***

To replace lost or stolen transmitters or to add additional transmitters into the system, have all desired transmitters ready and follow the steps below.

**Note:** Up to 4 transmitters can be programmed to operate the system. To erase any previously stored transmitter codes, be sure to program all 4 transmitter memory locations.

To program the transmitter(s):

1. Turn on the ignition key On, Off, On, Off, and back On.
  - The siren will chirp 3 times.
2. Press and hold the Override switch for 5 seconds.
  - The siren will chirp 5 times.
  - The LED will illuminate.
3. Press Button 1 on the first transmitter.
  - The siren will chirp once.
4. Press Button 1 on the first transmitter again.
  - The siren will chirp twice to indicate it has learned the code.
5. Repeat steps 3 and 4 for each transmitter (up to 4).
6. Turn off the ignition key.

## ***Battery Replacement***

Your Remote Transmitter uses a 12 volt alkaline battery (type 23A), which will require replacement in time. Depending on the amount of use, the battery may last up to six months or more before it needs replacement.

When the battery needs replacing, the system's operating range will decrease or the transmitter LED may not be as bright.

In order to change the battery, first remove 2 screws from the back of the transmitter and separate the top and bottom halves of the case.

While replacing the battery make sure that the positive and negative terminals are positioned correctly, then carefully reassemble the transmitter case.

## ***Tamper Alert***

If the system was triggered while away, the LED will flash to indicate which zone triggered the system after disarming and turning on the ignition. The LED indication will repeat 8 times.

LED Flashes:

|            |   |  |
|------------|---|--|
| 1 flash    | = | optional sensor                          |
| 2 flashes  | = | shock sensor                             |
| 3 flashes  | = | not used                                 |
| 4 flashes  | = | door                                     |
| 5 flashes  | = | trunk                                    |
| 10 flashes | = | main power interrupt or system was reset |

example: flash-flash-pause-flash-flash-pause = shock sensor

# System Operation

## **Remote Arming**

The system monitors 3 independent areas (**zones**) while armed: doors, hood/trunk, and shock sensor input.

To Arm the System:

1. Turn off the ignition.
2. Press Button 1.
  - The siren will chirp once.\*
  - The doors will lock.
  - The parking lights will flash once.
  - The LED will turn on red, to indicate the starter defeat is activated.
3. 5 seconds after Arming:
  - The LED will start blinking to indicate that the doors and hood/trunk inputs are being monitored.

\* During Arming, if the system detects a bad sensor or an open zone, the system will chirp 4 additional times and ignore that input, but keep all other areas protected.

Once Armed, the alarm will trigger when any of the following occurs:

- The doors are opened.
- The hood or trunk is opened.
- The shock sensor detects an impact to the vehicle.

When the alarm triggers, the siren will sound, the horn will honk, and the parking lights will flash. If the system is triggered by the doors, or hood/trunk, the system will alarm for 45 seconds. If triggered by the shock sensor input, the system will alarm for 30 seconds.

In the event the alarm is triggered and remains triggered continuously by the same sensor or input during a single arming cycle, that sensor or input will be automatically bypassed until the next time the system is armed.

If the Shock Sensor detects a light impact to the vehicle, the siren will chirp 5 times as a warning indication.

## **Remote Disarming**

To Disarm the System:

Press Button 1.

- The siren will chirp twice.\*
- The doors will unlock.
- The parking lights will flash twice.
- The dome light will turn on.\*\*
- The LED will turn off.

\* During Disarming, if the system was triggered while away from the vehicle, the siren will chirp 3 times, and the parking lights will flash 3 times.

\*\* If the optional Dome Light Activation Feature was installed.

## **Silent Arming/Disarming**

The system can be programmed to operate without Arm and Disarm chirp indications. When programmed for full-time silent operation, the siren will sound only when the system is triggered.

The system is also capable of temporary silent operation when needed. Pressing button 2 momentarily will bypass the chirp confirmations and allow one-time silent operation.

**Note:** The open zone warning chirps will not be bypassed when the system is Armed or Disarmed silently.



## ***Passive Arming***

When programmed for the optional Passive Arming feature, the system arms itself automatically, each time the ignition is turned off and all of the doors, hood, and trunk are closed.

To start the Passive Arming Process:

1. Turn off the ignition.\*
2. Open the door and exit the vehicle.
  - Once all doors are closed and the dome light is off, the LED will begin flashing rapidly.
3. After 30 seconds,
  - The siren will chirp.
  - The parking lights will flash.
  - The doors will lock.\*\*
  - The status LED will begin flashing.
4. The system is now armed.

\* The ignition must have been on for *at least* 5 seconds or the Passive Arming sequence will be disabled.

\*\* If the Passive Locking feature is selected.

If the Passive Arming with Countdown feature is programmed, the siren will chirp every 2 seconds until the system passively arms.

**Note:** If the Passive Arming feature is enabled, the Automatic Rearming feature will also be enabled even if it was not already programmed.

## ***Panic Mode***

In the event of an emergency, the transmitter's Panic feature can be used to instantly trigger the alarm.

To activate the Panic Mode:

1. Press and hold Button 1 for 3 seconds.
  - The alarm will sound.
  - The parking lights will flash.
  - The doors will unlock\* allowing access to the vehicle.
2. Press Button 1 or 2 to stop Panic Mode.

\* If the ignition is on when the Panic feature is activated, the doors will lock for personal safety.

## ***Emergency Override***

If the transmitter is lost or inoperable, the system can still be disarmed using the following procedure. Before beginning this procedure be sure to have the ignition key ready and know the location of the override switch.

To Emergency Override the system:

1. Unlock the door using the key.
2. Enter the vehicle.
  - The system will trigger and the siren will sound.
3. Turn ignition key on.
4. Press and hold the override switch until the alarm shuts off.
  - The system will disarm.
5. The vehicle will now be able to start.

## ***Optional Coded Emergency Override***

As an extra measure of security, the system is equipped with an optional Coded Emergency Override feature. Once an Emergency Override Code is chosen and programmed during installation, the system can no longer be disarmed using the standard override procedure.

To Emergency Override the system using the Code:

1. Follow steps 1-3 above.
2. Press the override switch a number of times equal to the Disarm code, and continue holding for 10 seconds on the last press.
  - The system will disarm. If the code is entered incorrectly, turn off the ignition and begin again.

To set the Emergency Override Code:

1. Turn on ignition.
2. Within 5 seconds, press the valet switch 5 times.
  - The siren will provide one long chirp, indicating that you have entered Programming.
3. Press the valet switch 3 times.
  - The siren will chirp each time the valet switch is pressed.
4. Within 5 seconds, press Button 3 on the transmitter.
  - The siren will chirp 3 times.
5. Press the valet switch the number of times equal to the desired code (from 1-15).
6. Turn off the ignition then arm the system.
7. Disarm the system using the new Override Code to permanently store the new code.

**Note:** If the code set procedure is not properly performed, turn off the ignition and begin again. The override code will not be permanently stored until the code is used to disarm the system.

## ***Valet Mode***

The Valet Mode temporarily disables the security system so the vehicle may be operated by a mechanic or parking attendant.

To activate or deactivate the Valet Mode:

1. Turn on the ignition.
2. Press and hold the override switch for 5 seconds.
  - The siren will chirp once and the LED light will stay ON to confirm the Valet Mode is on.
  - The siren will chirp twice and the LED light will turn OFF to confirm the Valet Mode is off.
3. Turn off the ignition.

While in Valet Mode the remote transmitters will continue to lock and unlock the doors, and operate the optional auxiliary functions.

## Extended Features

### ***Ignition Controlled Door Locks***

For added safety, the Ignition Door Locking feature allows vehicles equipped with power door lock systems to automatically lock the doors when the ignition is turned on, and unlock the doors after the ignition key is turned off. If a door is open when the ignition is turned on, the ignition locking feature is disabled to protect against locking the keys inside the vehicle.

### ***Dome Light Activation***

If the optional Dome Light Activation feature is installed, the dome light will turn on when the system is disarmed using the Remote Transmitter. The dome light will remain on for 30 seconds or until the ignition is turned on.

### ***Auxiliary Function Outputs***

The Astra A10 system is equipped with an Auxiliary Output allowing the convenience features of the system to be further expanded. This output can be used to add an optional feature such as: power trunk release, remote engine start, power window activation, power sunroof control, etc.

### ***Anti-Carjacking Protection***

For a higher level of personal security, the system is equipped with three programmable Anti-Carjacking modes. When any Anti-Carjacking mode is triggered, the parking lights will flash twice to confirm activation. After 90 seconds the siren will begin chirping for 15 seconds as a warning, prior to entering full alarm mode. During the full alarm mode, the siren will sound, the parking lights will flash, and the horn will honk for up to five minutes or until the system is reset.

**Manual.** When selected, pressing buttons 1 & 2 together will automatically trigger the Anti-Carjacking feature. Pressing buttons 1 & 2 again will reset the Manual Anti-Carjacking mode.

**Passive.** When selected, the Anti-Carjacking feature will activate whenever a door is opened while the ignition is on. Press the Valet switch 3 times to reset the Passive Anti-Carjacking mode.

**Full-Time.** When selected, the Anti-Carjacking feature will automatically activate each time the ignition is turned on. Press the Valet switch 3 times while the ignition is on to reset the Passive Anti-Carjacking mode.

**Note:** The desired Anti-carjacking mode must be programmed during installation.

# System Installation

1. Thoroughly read and become familiar with the installation instructions before beginning the installation.
2. Review system contents:
  - Main Unit
  - (2) Two-Button Remote Transmitters
  - Siren
  - Shock Sensor
  - Harnesses
    - 8-Pin main harness
    - 4-Pin main harness
    - 4-Pin shock sensor harness
    - 3-Pin door lock harness
    - LED harness
    - Override Switch harness
3. Verify with the owner, the mounting locations for all visible components, including the LED and Override switch.
4. Verify with the owner, the optional features of the Astra A10 and the features that must be programmed during installation.
5. Inspect and perform a function test of all vehicle systems before and after the installation.
6. Always use a Volt / Ohm meter for testing vehicle circuits. Never use a test light.
7. Always look before drilling any holes or mounting self-tapping screws. Be sure fuel lines and exterior wiring looms are clear as they are often close to the chassis and difficult to see.
8. Protect all wires running from the engine compartment to the interior of the vehicle by covering with electrical tape and split loom tubing. Be sure to use a grommet when routing wires through the firewall.
9. Properly fuse any additional accessories such as window modules, door lock actuators, etc., making sure to power them separate from the alarm module. This will ensure the functionality of the security system in the event of an accessory failure.

## ***Mounting the Control Unit***

The control unit must only be mounted in the interior of the vehicle. Do not mount the main unit in the engine compartment. Choose a mounting location that will not be easily accessible to a thief, and will not interfere with the operation of any vehicle components such as foot pedals, steering column, air vents, seat rails, etc.

Do not mount the control unit until after setting the internal jumpers and performing a complete operation check of the system. After installation is complete and performance verified, the control unit can be easily mounted using wire ties through the mounting tabs on the bottom of the unit.

## ***Mounting the Siren***

Choose a siren mounting location that is away from heat sources such as exhaust manifolds, and where it cannot be easily accessed from underneath the vehicle. Be sure to face the siren downward to prevent the collection of water in the siren's housing.

Always route all wires from the engine compartment into the interior of the vehicle through a proper grommet.

## ***Mounting the Shock Sensor***

Choose a suitable interior mounting location for the shock sensor that provides ample coverage of the vehicle. Keep the sensor away from the vehicle's ECM or other sources of electrical interference. Suggested mounting locations include air conditioning ducts, dashboard braces, or center console supports.

During proper operation, the shock sensor will detect impacts to the vehicle only and will not usually be triggered by slow rocking movements of the vehicle like those caused by wind.

# System Wiring

## 8-Pin Main Harness

- Pin 1 **ORANGE WIRE:** Armed Output (-) 500mA. The ORANGE wire provides a ground output while armed to activate an optional starter defeat relay or other device such as a power window control module.
- Pin 2 **BLUE WIRE:** Trunk/Hood trigger Input (-). Connect the BLUE wire to the trunk and/or optional hood pin switches. The switch must provide a ground output when opened.
- Pin 3 **BLACK/WHITE WIRE:** Dome Light Output (-) 500mA. Connect to an optional relay (see page) for dome light activation. (See GREEN and VIOLET door trigger wires).
- Pin 4 **BROWN/WHITE WIRE:** Horn Output (-) 500mA. Connect to an optional relay to activate the vehicle's horn when the alarm is triggered.
- Pin 5 **GRAY WIRE:** Auxiliary 1 Output (-) 500mA. Connect to a relay or module for an optional feature such as trunk release, etc.
- Pin 6 **BROWN WIRE:** Siren Output (+) 3A. The BROWN wire must connect to the siren's red wire. The BLACK siren wire must be grounded.
- Pin 7 **GREEN WIRE:** Negative door trigger Input (-). Connect to the door switch circuit wire that shows ground when the door is open.
- Pin 8 **VIOLET WIRE:** Positive door trigger Input (+). Connect to the door switch circuit wire that shows +12V when the door is open. This type of door circuit is usually found on Ford vehicles.

## 4-Pin Main Harness

- Pin 1 **WHITE WIRE:** Parking Light Output (+) 7A. The WHITE wire must connect to the circuit that shows +12V when only the parking lights are on. For parking light circuits exceeding 7 amps, a relay is required. For vehicle's with independent left and right parking light circuits, diodes must be used to keep the circuits separate. NOTE: Do not connect the WHITE wire to the vehicle's headlight circuit.
- Pin 2 **RED WIRE:** +12V Battery Input (15A Fuse). The RED wire must be connected to a clean source of continuous +12V power.
- Pin 3 **YELLOW WIRE:** +12V Ignition Input. The YELLOW wire must connect to a main ignition wire at the ignition harness. This wire must show +12V when the ignition is on.
- Pin 4 **BLACK WIRE:** Ground Input (-). The BLACK wire must connect to a solid chassis ground. Clean away any paint or dirt to insure the best possible ground.

## Plug-in Connectors

**3-Pin White Door Lock Connector:** Plug-in connector port for door lock harness or optional door lock relay module.

- BLUE WIRE - negative unlock output (-) 500mA.
- RED WIRE - constant +12V low current output for relay modules, or inverters. 100mA relay trigger only. Do NOT use as a power source for door lock relays.
- GREEN WIRE - negative lock output (-) 500mA.

**2-Pin Red Connector:** Plug-in connector port for LED. Mount the LED in an area where it may be easily seen from either side of the vehicle.

**2-Pin Blue Connector:** Plug-in connector port for valet switch. Mount the valet switch in an area that is easily accessible from the driver's position.

**4-Pin White Connector :** Plug-in connector port for dual stage shock sensor.

# System Programming

## Entering System Programming

To enter System Programming:

1. Turn on ignition.
2. Within 5 seconds, press the valet switch 5 times.
  - The siren will provide one long chirp, indicating that you have entered Programming.
3. Press the valet switch the number times equal to the System Parameter you want to change.
  - The siren will chirp each time the valet switch is pressed.
4. Within 5 seconds, press the transmitter button corresponding to the desired operating mode for that System Parameter.
  - The siren will chirp to indicate the setting.

|          |   |          |
|----------|---|----------|
| 1 chirp  | = | Button 1 |
| 2 chirps | = | Button 2 |
| 3 chirps | = | Button 3 |
5. When you are finished, turn off the ignition to save the changes.

## Default Reset

Following this procedure will set all System Programming Parameters to factory default settings.

1. Enter System Programming.
2. Press Transmitter Button 3.
  - The siren will chirp 4 times indicating that the reset signal was received.
  - All System Programming parameters are now set to factory default settings.
  - The Valet Mode is off.
3. Turn off ignition.

## Programmable System Options

| Branch | Feature                       | Button 1 (default)   | Button 2            | Button 1 and 2      |
|--------|-------------------------------|----------------------|---------------------|---------------------|
| 1.     | Horn Chirps w/ Arm&Disarm     | Horn Chirps Disabled | Horn Chirps Enabled | Horn Chirps w/Warn  |
| 2.     | Arm Mode                      | Manual Arming        | Passive Arming      | Passive w/Countdown |
| 3.     | Passive Door Locking          | Disabled             | Enabled             | Override Code       |
| 4.     | Ignition Controlled Locks     | On                   | Off                 | Lock Only           |
| 5.     | Door Input Monitoring         | 10 Seconds           | 60 Seconds          |                     |
| 6.     | Auto Rearming                 | Disabled             | Enabled             |                     |
| 7.     | Door Unlock Pulse             | Single               | Double              |                     |
| 8.     | Arming Chirps                 | Normal               | Silent              |                     |
| 9.     | Extended Parking Lights       | On                   | Off                 |                     |
| 10.    | Disarm with Aux 1             | Disabled             | Enabled             |                     |
| 11.    | Door Lock Pulse Length        | 1 second             | 3 seconds           | 0.1 second          |
| 12.    | Anti-Carjack Mode             | Disabled             | Enabled             |                     |
| 13.    | Anti-Carjack Type             | Manual               | Passive             | Full-time           |
| 14.    | Ignition Armed Mode           | Disabled             | Enabled             |                     |
| 15.    | Silent Arm/Disarm with Btn. 2 | Enabled              | Disabled            |                     |
| 16.    | Disarm Mode                   | Standard             | Two Stage           |                     |

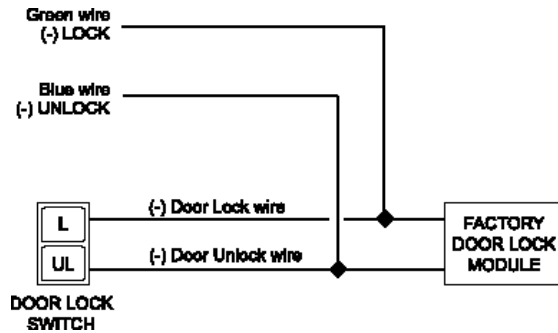
1. **Horn Chirps with Arm & Disarm.** Selects one of three modes: Normal, Horn Chirps, and Horn Chirps w/Warn.  
Normal. When selected, the horn will honk only when the alarm is triggered.  
Horn Chirps. When selected, the horn will provide the arm/disarm and trigger indications, allowing the siren installation to be skipped.  
Horn Chirps w/Warn. When selected, the horn will provide arm/disarm, trigger, and warn-away indications.
2. **Arm Mode.** Selects one of three modes: Manual Arming or Passive Arming and Passive Arming w/Countdown. With the Passive Arming w/Countdown mode selected, the siren will chirp every 2 seconds while counting down until the system passively arms. Note: If Auto Rearming is selected, the siren will also chirp during Auto Rearm countdown.
3. **Passive Door Locking.** Selects whether or not the system will automatically lock the doors during passive arm. (also used to set override code).
4. **Ignition Controlled Locks.** Selects whether or not the system will lock and unlock the doors with the ignition.
5. **Door Input Monitoring.** Selects whether the system begins monitoring the door inputs after 10 seconds or 60 seconds. For vehicles with interior lights that remain on for an extended period of time after the doors are closed, set for 60 seconds.
6. **Auto Rearming Mode.** When selected, the system will automatically re-arm 60 seconds after it is disarmed if the doors have not been opened.
7. **Door Unlock Pulse.** Selects between one pulse or two pulse operation for the door unlock output. Vehicles that require two pulses on the proper wire to unlock the doors can be interfaced directly without the use of relays or any additional circuitry by programming the system for double unlock pulse.
8. **Arming Chirps.** Selects between normal and silent operation.
9. **Extended Parking Lights.** When selected, the parking lights will remain on for 30 seconds after disarming the system.
10. **Disarm with Auxiliary 1.** When selected, activating the Auxiliary 1 output (usually used to open the trunk) will disarm the alarm.
11. **Door Lock Pulse Length.** Selects between a 1-second, 3-second or 0.1-seconds output for door locking and unlocking. Program to 3 seconds for vehicles equipped with vacuum door locking systems.
12. **Anti-Carjack Mode.** Enables Anti-Carjacking protection.
13. **Anti-Carjack Type.** Selects one of three modes for Anti-Carjacking: Active, Passive, or Full-Time.  
Manual. When selected, pressing Button 2 will automatically engage the Anti-Carjacking feature.  
Passive. When selected, the Anti-Carjacking feature will activate whenever a door is opened while the ignition is on.  
Full-Time. When selected, the Anti-Carjacking feature will automatically activate each time the ignition is turned on.
14. **Ignition Arm Mode.** Ability to Arm the system with Ignition in On position.
15. **Silent Arm/Disarm With Button 2.** Silent Arm/Disarm by pressing momentarily button 2.
16. **Disarm Mode.** Selects between Standard operation and Two Stage Disarm mode.  
Standard. When selected, the system will always disarm on the first press of the transmitter button.  
Two Stage Disarm. When selected, the system will disarm on the first press of the transmitter button only if the alarm is not actively triggered. If the alarm is sounding, pressing the button to disarm the system will reset the alarm and quiet the siren. Pressing the button again will disarm the system. This mode will keep the system armed but allow the siren to be muted in the event the shock sensor is accidentally triggered by a non-intrusive event (such as an animal jumping on the vehicle, etc.).



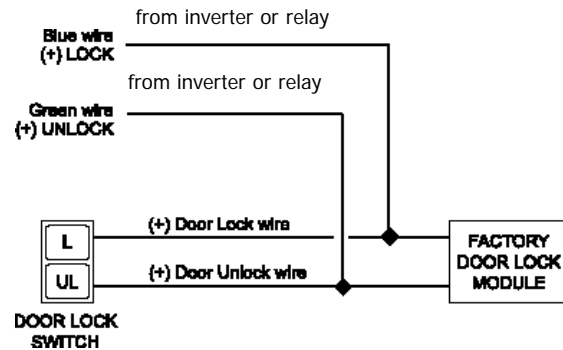
# Door Lock Diagrams

Follow the diagrams below for connecting basic door lock systems. For Two Stage door lock systems (separately unlocks driver and passenger doors) see following pages.

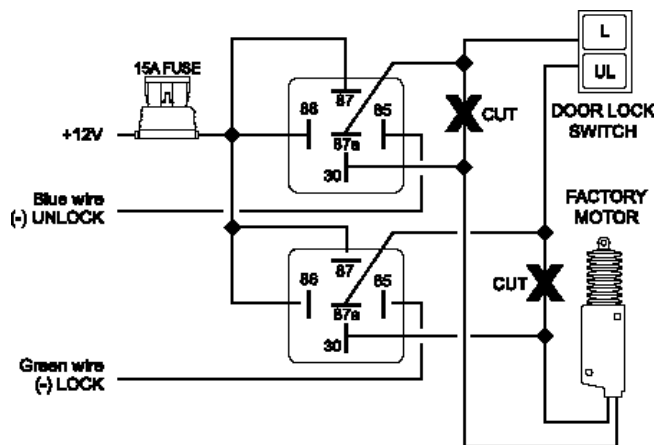
## Negative Trigger



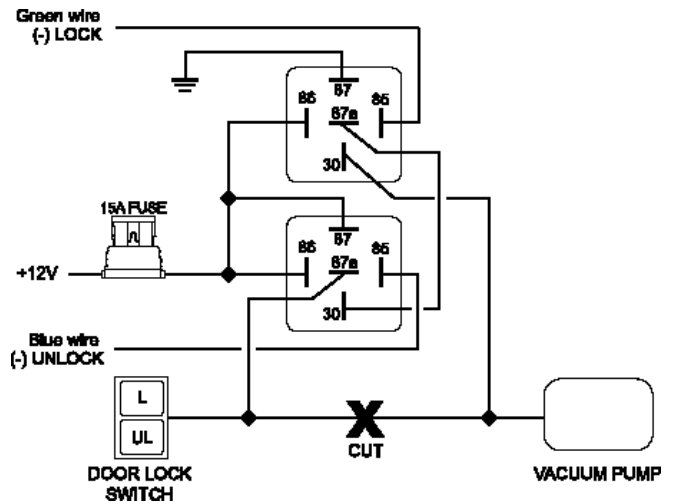
## Positive Trigger



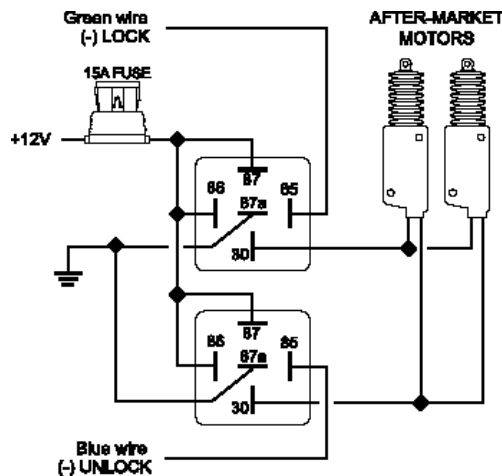
## Reverse Polarity



## Vacuum



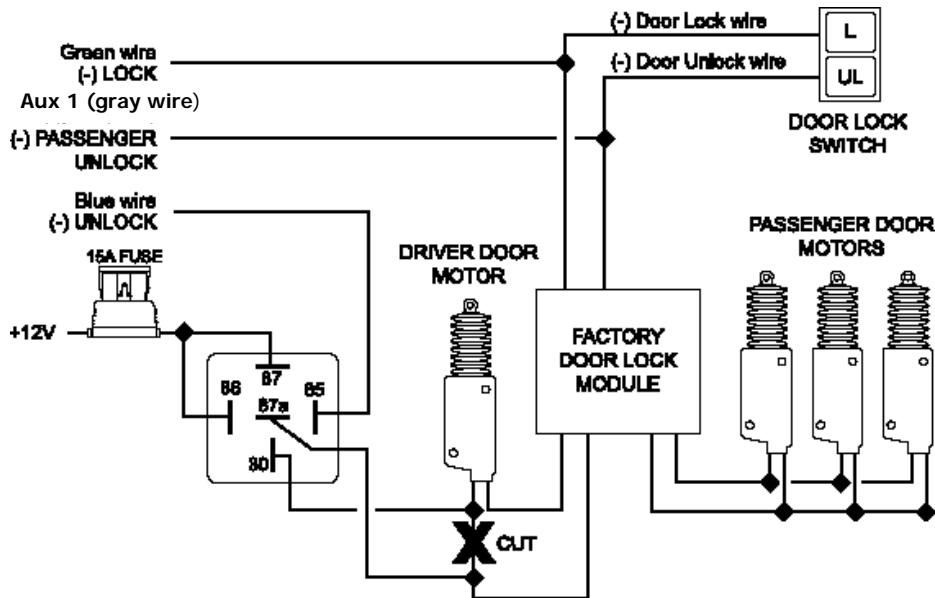
## Adding Actuators



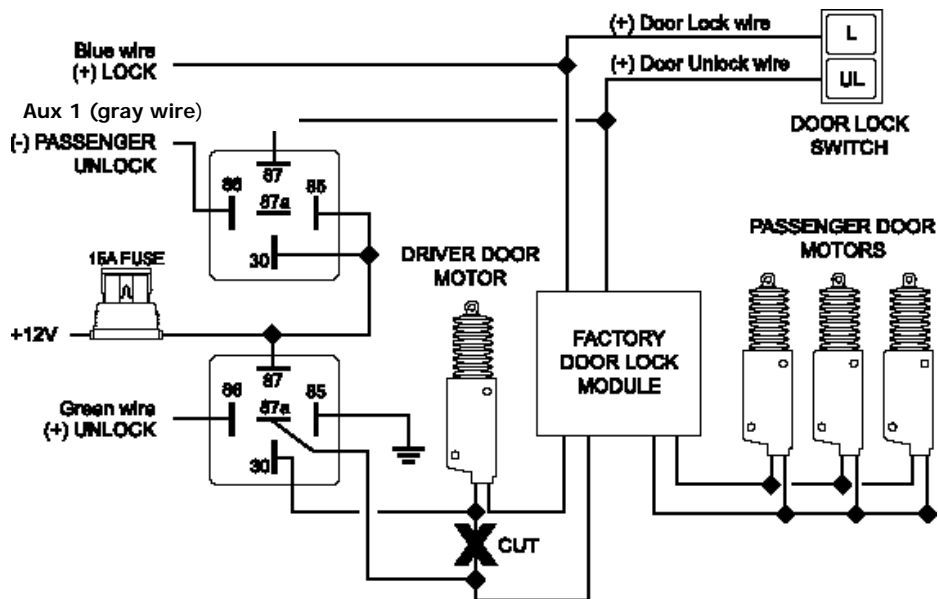
## Two Stage Door Lock Diagrams

When connected as shown below, disarming the system will unlock only the driver's door. Pressing the Aux 1 button will unlock all doors.

### Two Stage Negative Trigger

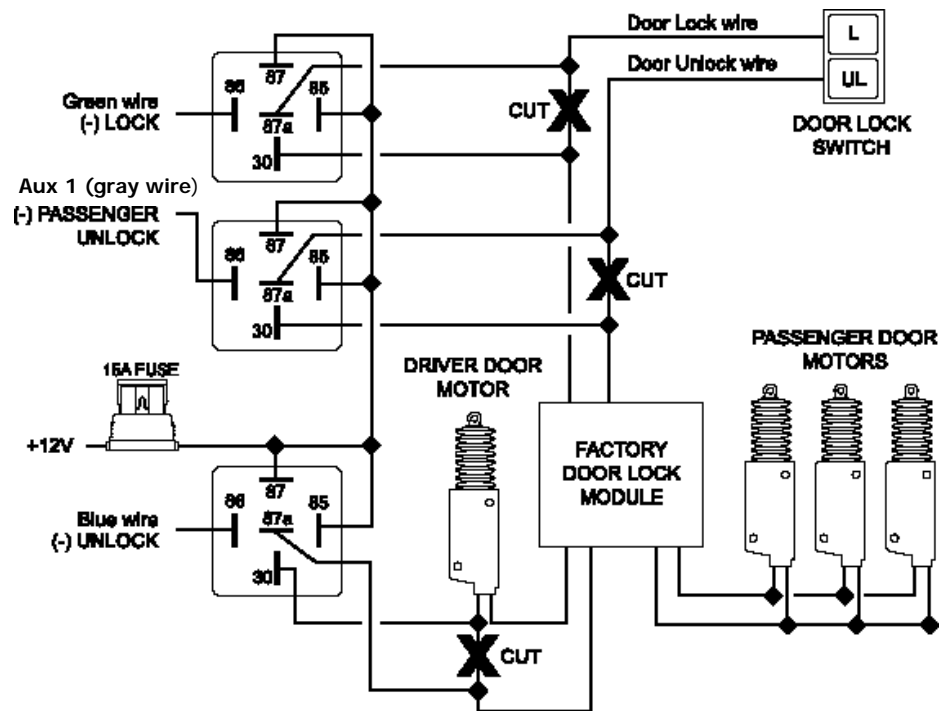


### Two Stage Positive Trigger

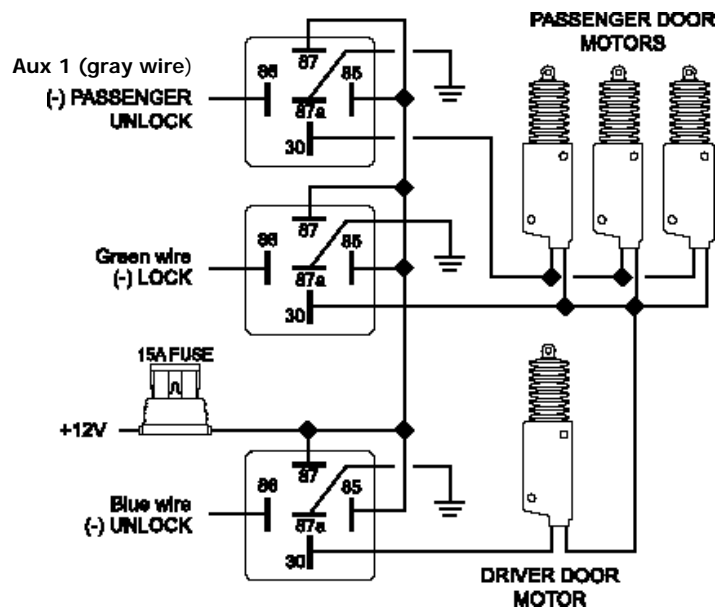


# Two Stage Door Lock Diagrams cont'd

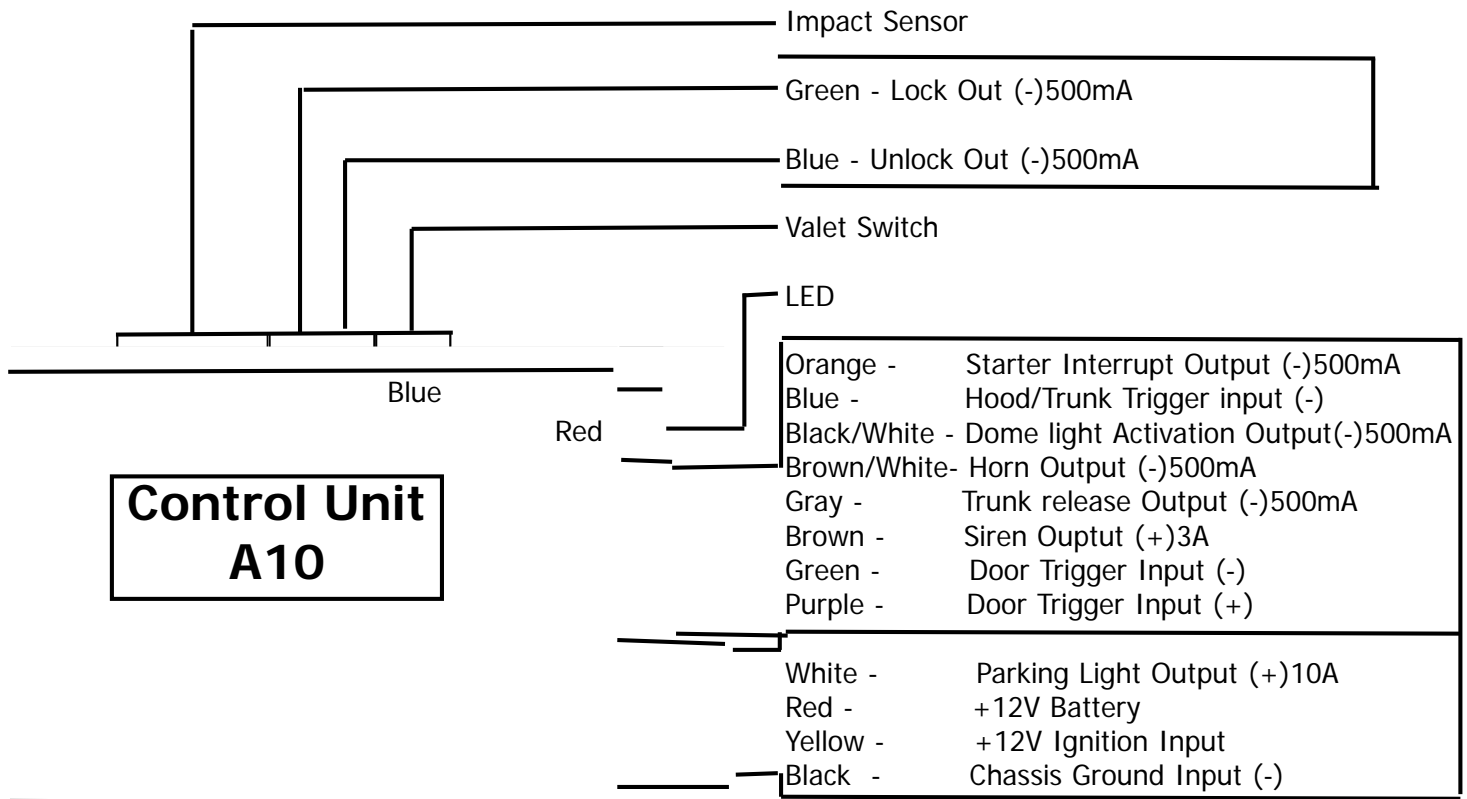
## Two Stage Reverse Polarity



## Two Stage Adding Actuators



## Wiring Diagram



## Technical Information

### FCC ID: OARRXAM2000

This device complies with Part 15 of FCC Rules.

Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference.
- 2) This device must accept any interference received, including interference that may cause undesired operation

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