VIPER®

NO ONE DARES COME CLOSE®

OWNER'S GUIDE

MODEL
3606V

Congratulations

Congratulations on the purchase of your state-of-the-art security system. Reading this Owner's Guide prior to using your system will help maximize the use of your system and its many features. For any additional questions please contact your authorized Directed dealer or contact Directed at 1-800-753-0600.

Additional Guide Information

Only basic commands, features and essential information are covered in this compact guide. Your product has many advanced features which are not discussed here, please consult the expanded online version for these on the website listed on the back cover. Most sections in this guide also contain additional information which can be found in the expanded online version.

Important information

Government Regulations and Safety information

Read the *Government Regulations* and *Warning! Safety First* sections of this manual prior to operating this system.

Warning! Failure to heed this information can result in death, personal injury or property damage and may also result in the illegal use of the system beyond its intended purpose.

Optional Remote Controls

A choice of two optional remote controls with additional features is also available for use with your system. These remote control choices are: LED 2-way (P/N 7856) and LCD 2-way (P/N 7756). See your authorized dealer for purchasing details. Once purchased, please go online to our website (listed on the back cover) and use system model number 3806 or 3706 respectively to search for the appropriate owner's guide, which provides instructions on how to use these remote controls.

Replacement Remote Controls

Please see your authorized dealer or visit us at **www.directedstore.com** to order additional remote controls , or the optional LED and LCD remote controls. Remote control part numbers are found on the back of the device.

Your Warranty

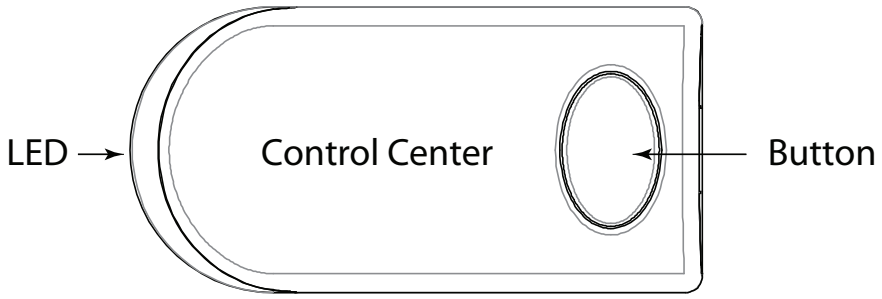
Your system comes with a warranty. The warranty terms are detailed at the end of this guide. Make sure that you receive the proof of purchase from your dealer, indicating the product was installed by an authorized Directed dealer.

Contents

Remote Control

Feature	Description
Internal Antenna	Used for transmitting information
Transmit LED	Active when transmitting information
Command buttons (4) 	Used to perform arming, disarming, and auxiliary channel commands
Function button 	Used to access function levels for commands, configuration menus for programming and Car Selection

Control Center



The Control Center, typically located on the upper part of the front windshield. It consists of:

- The In-vehicle system antenna.
- The Status LED, as a visual indicator of the system's status.
- The Control button, for placing the system into Valet Mode* and to perform the Emergency Override* operation.

* See online guide for details.

Using your System

Commanding the system

Commands, Basic or Advanced, are used to activate system features and are performed by pressing one of the Command buttons. Basic commands control the most often used security and remote start features while Advanced commands control more specialized features.

Confirmations for Basic or Advanced commands are indicated by siren chirps and parking light flashes. A description of each feature confirmation is found in the following Basic command and Advanced command sections.

Performing Commands

Perform Basic commands by pressing a Command button.
Perform Advanced Commands by first accessing Levels 1-4 using the *f* button and then by pressing a Command button while within a level.

Advanced command example: Silent Arm

1. **Press** the *f* button once to access Function Level 1, The transmit LED single flashes for 3 seconds.
2. **Press** the  button while the transmit LED is still flashing to perform the Silent Arm command.
3. The system will arm, lock the doors and flash the parking lights without siren chirps.

Remote Control Command table

Level / Button	Direct Access	f x 1 LEVEL 1	f x 2 LEVEL 2	f x 3 LEVEL 3	f x 4 LEVEL 4
🔒	Arm/Lock (Panic)	Silent Arm	Sensor Bypass	Sensor Silent Arm	Full Silent Arm
🔓	Disarm/Unlock	Silent Disarm	Remote Valet	Car Finder	
	Remote Start*/ Aux 1/4**				
AUX	Aux/Trunk	AUX 1	AUX 2	AUX 3	AUX 4
f	Advance Level, Enter programming (8 sec)				

* Available only with optional Remote Start module installation

** This button can command either Aux 1 or Aux 4 if turned on by an authorized Directed dealer.

Basic Commands (Direct Access)

Arm

Press and release 

The alarm arms, doors lock (if connected), and the siren chirps and parking lights flash once. If Valet mode* is On, the doors lock without siren chirps, the alarm is disabled. Exit Valet mode to arm the alarm normally.

If a trigger zone fault is detected the siren chirps once again and the control center LED generates a Trigger Zone Fault report*.

To Arm and Panic

Press and **hold** 

The alarm Arms (or Locks in Valet) and, after two seconds, sounds the siren and flashes the parking lights. **Press** the  or  button to stop the output.

Disarm

Press and release 

The alarm disarms, doors unlock (if connected), and the siren chirps and parking lights flash twice.

An Alarm Report* alert of four or five siren chirps will replace the normal disarm chirps if the alarm was triggered.

Remote Start/Aux 1/Aux 4

Press and release 

Remote Start **

Activates (or if On, deactivates) the remote starter. The engine and parking lights turn On, or the engine and parking lights turn Off accordingly.

AUX1/AUX4 ***

Activates (or if on, deactivates) the aux 1or aux 4 output.

AUX/Trunk

Press and **hold AUX**

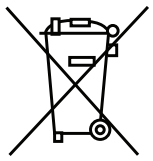
The Trunk opens (if connected) when this button is pressed for 2 seconds.

* See online guide for details.
** Available only with optional Remote Start module installation.
*** This feature must be turned on by an authorized Directed dealer.

Battery Information

The remote controls are powered by 1 coin cell battery (CR-2032) that can be purchased at most retailers. When the battery begins to weaken, the operating range will be reduced.

Battery Disposal



Directed cares about the environment. If you need to dispose of the battery, please do so in accordance with your municipal requirements for battery disposal.

Patent Information

This product is covered by one or more of the following United States patents:

Remote Start Patents:
5,349,931; 5,872,519; 5,914,667; 5,952,933; 5,945,936; 5,990,786; 6,028,372; 6,467,448; 6,561,151; 7,191,053; 7,483,783

Vehicle Security Patents:
5,467,070; 5,532,670; 5,534,845; 5,563,576; 5,646,591; 5,650,774; 5,673,017; 5,712,638; 5,872,519; 5,914,667; 5,952,933; 5,945,936; 5,990,786; 6,028,505; 6,452,484

Other patents pending.

Government Regulations

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, and (2) This device must accept any interference received, including interference that may cause undesirable operation.

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television, which can be determined by turning the equipment OFF and ON, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

Remote Controls

To satisfy FCC RF exposure compliance requirements, this device should be used in hand-held, hand operated configurations only. The device and its antenna must maintain a separation distance of 20 cm or more from the person's body, except for the hand and wrists, to satisfy RF exposure compliance. This device is designed to be used in a person's hands and its operating configurations do not support normal transmissions while it is carried in pockets or holsters next to a person's body.

Control Center

To satisfy FCC RF exposure compliance requirements, the device and its antenna must maintain a separation distance of 20 cm or more from the person's body, except for the hand and wrists, to satisfy RF exposure compliance.

This device complies with the Industry Canada Radio Standards Specification RSS 210. Its use is authorized only on a no-interference, no-protection basis; in other words, this device must not be used if it is determined that it causes harmful interference to services authorized by IC. In addition, the user of this device must accept any radio interference that may be received, even if this interference could affect the operation of the device.

WARNING! Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

Warning! Safety First

Please read the safety warnings below before proceeding. Improper use of the product may be dangerous or illegal.

Installation

Due to the complexity of this system, installation of this product must only be performed by an authorized Directed dealer. If you have any questions, ask your retailer or contact Directed directly at 1-800-753-0600.

Interference

All radio devices are subject to interference which could affect proper performance.

Upgrades

Any upgrades to this product must be performed by an authorized Directed dealer. Do not attempt to perform any unauthorized modifications to this product.

Water/Heat Resistance

This product is not designed to be water and/or heat-resistant. Please take care to keep this product dry and away from heat sources. Any damage from water or heat will void the warranty.

Limited lifetime consumer warranty

Directed Electronics. ("Directed") promises to the original purchaser to repair or replace (at Directed's election) with a comparable reconditioned model any Directed unit (hereafter the "unit"), excluding without limitation the siren, the remote transmitters, the associated sensors and accessories, which proves to be defective in workmanship or material under reasonable use during the lifetime of the vehicle provided the following conditions are met: the unit was purchased from an authorized Directed dealer, the unit was professionally installed and serviced by an authorized Directed dealer; the unit will be profession¬ally reinstalled in the vehicle in which it was originally installed by an authorized Directed dealer; and the unit is returned to Directed, shipping prepaid with a legible copy of the bill of sale or other dated proof of purchase bearing the following information: consumer's name, telephone number and address; the authorized dealers name, telephone number and address; complete product description, including accessories; the year, make and model of the vehicle; vehicle license number and vehicle identification number. All components other than the unit, including without limitation the siren, the remote transmitters and the associated sensors and accessories, carry a one-year warranty from the date of purchase of the same. ALL PRODUCTS RECEIVED BY DIRECTED FOR WARRANTY REPAIR WITHOUT PROOF OF PURCHASE FROM AN AUTHORIZED DEALER WILL BE DENIED. This warranty is non-transferable and is automatically void if: the unit's date code or serial number is defaced, missing or altered; the unit has been modified or used in a manner contrary to its intended purpose; the unit has been damaged by accident, unreasonable use, neglect, improper service, installation or other causes not arising out of defects in materials or construction. The warranty does not cover damage to the unit caused by installation or removal of the unit. Directed, in its sole discretion, will determine what constitutes excessive damage and may refuse the return of any unit with excessive damage. TO THE MAXIMUM EXTENT ALLOWED BY LAW, ALL WARRANTIES, INCLUDING BUT NOT LIMITED TO EXPRESS WARRANTY, IMPLIED WARRANTY, WARRANTY OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF NON-INFRINGEMENT OF INTELLECTUAL PROPERTY, ARE EXPRESSLY EXCLUDED; AND DIRECTED NEITHER ASSUMES NOR AUTHORIZES ANY PERSON OR ENTITY TO ASSUME FOR IT ANY DUTY, OBLIGATION OR LIABILITY IN CONNECTION WITH ITS PRODUCTS. DIRECTED DISCLAIMS AND HAS ABSOLUTELY NO LIABILITY FOR ANY AND ALL ACTS OF THIRD PARTIES INCLUDING ITS AUTHORIZED DEALERS OR INSTALLERS. DIRECTED SECURITY SYSTEMS, INCLUDING THIS UNIT, ARE DETERRENTS AGAINST POSSIBLE THEFT. DIRECTED IS NOT OFFERING A GUARANTEE OR INSURANCE AGAINST VANDALISM, DAMAGE OR THEFT OF THE AUTOMOBILE, ITS PARTS OR CONTENTS; AND HEREBY EXPRESSLY DISCLAIMS ANY LIABILITY WHATSOEVER, INCLUDING WITHOUT LIMITATION, LIABILITY FOR THEFT, DAMAGE AND/OR VANDALISM. THIS WARRANTY DOES NOT COVER LABOR COSTS FOR MAINTENANCE, REMOVAL OR REINSTALLATION OF THE UNIT OR

ANY CONSEQUENTIAL DAMAGES OF ANY KIND. IN THE EVENT OF A CLAIM OR A DISPUTE INVOLVING DIRECTED OR ITS SUBSIDIARY, THE VENUE SHALL BE SAN DIEGO COUNTY IN THE STATE OF CALIFORNIA. CALIFORNIA STATE LAWS AND APPLICABLE FEDERAL LAWS SHALL APPLY AND GOVERN THE DISPUTE. THE MAXIMUM RECOVERY UNDER ANY CLAIM AGAINST DIRECTED SHALL BE STRICTLY LIMITED TO THE AUTHORIZED DIRECTED DEALER'S PURCHASE PRICE OF THE UNIT. DIRECTED SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO, ANY CONSEQUENTIAL DAMAGES, INCIDENTAL DAMAGES, DAMAGE TO VEHICLE, DAMAGES FOR THE LOSS OF TIME, LOSS OF EARNINGS, COMMERCIAL LOSS, LOSS OF ECONOMIC OPPORTUNITY AND THE LIKE. NOTWITHSTANDING THE ABOVE, THE MANUFACTURER DOES OFFER A LIMITED WARRANTY TO REPLACE OR REPAIR THE CONTROL MODULE SUBJECT TO THE CONDITIONS AS DESCRIBED HEREIN. THIS WARRANTY IS VOID IF THE UNIT HAS NOT BEEN PURCHASED FROM DIRECTED, OR AN AUTHORIZED DIRECTED DEALER, OR IF THE UNIT HAS BEEN DAMAGED BY ACCIDENT, UNREASONABLE USE, NEGLIGENCE, ACTS OF GOD, NEGLECT, IMPROPER SERVICE, OR OTHER CAUSES NOT ARISING OUT OF DEFECT IN MATERIALS OR CONSTRUCTION.

Some states do not allow limitations on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights and you may also have other rights that vary from State to State.

This warranty is only valid for sale of product(s) within the United States of America and in Canada. Product(s) sold outside of the United States of America or Canada are sold "AS-IS" and shall have NO WARRANTY, express or implied.

For further details relating to warranty information of Directed products, please visit the support section of Directed's website at: www.directed.com

This product may be covered by a Guaranteed Protection Plan ("GPP"). See your authorized Directed dealer for details of the plan or call Directed Customer Service at 1-800-876-0800.

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DIRECTED®

The company behind Viper® Auto Security Systems is Directed.

Since its inception, Directed has had one purpose, to provide consumers with the finest vehicle security and accessories available. The recipient of nearly 100 patents and Innovations Awards in the field of advanced electronic technology.

Quality Directed products are sold and serviced throughout North America and around the world.

Call **(800) 876-0800** for more information about our products and services.

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Vista, CA 92081
www.viper.com

Directed is committed to delivering world class quality products and services that excite and delight our customers.

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Contents

Getting Started

Keys to using this manual

Specific actions (in bold type) and style conventions are used consistently throughout this manual, they are as follows:

- **Press:** implies pushing in and releasing a button.
- **Hold:** is used after Press actions when a button needs to be held in position for an extended period of time, typically several seconds.
- *Italicized* words denote section/sub headings in this guide and can be located through the table of contents.
- An asterisk (*) when used after a word or phrase denotes that additional details can be found in related sections usually noted at the bottom of the page or end of the section.

Remote Control

Feature	Description
Internal Antenna	Used for transmitting information
Transmit LED	Active when transmitting information
Command buttons (4) 	Used to perform arming, disarming, and auxiliary channel commands
Function button 	Used to access function levels for commands, configuration menus for programming and Car Selection

Control Center

The Control Center, typically located on the upper part of the front windshield. It consists of:

- The In-vehicle system antenna.
- The Status LED, as a visual indicator of the system's status.
- The Control button, for placing the system into Valet Mode* and to perform the Emergency Override** operation.

* See *"Remote and System Operations" on page 19* for details.
** See *"Alarm Features" on page 16* for more details.

Using your System

Commanding the system

Commands, Basic or Advanced, are used to activate system features and are performed by pressing one of the Command buttons. Basic commands control the most often used security and remote start features while Advanced commands control more specialized features.

Confirmations for Basic or Advanced commands are indicated by siren chirps and parking light flashes. A description of each feature confirmation is found in the following Basic command and Advanced command sections.

Performing Commands

Perform Basic commands by pressing a Command button.
Perform Advanced Commands by first accessing Levels 1-4 using the *f* button and then by pressing a Command button while within a level.

Advanced command example: Silent Arm

1. **Press** the *f* button once to access Function Level 1, The transmit LED single flashes for 3 seconds.
2. **Press** the  button while the transmit LED is still flashing to perform the Silent Arm command.
3. The system will arm, lock the doors and flash the parking lights without siren chirps.

Remote Control Command table

Level / Button	Direct Access	f x 1 LEVEL 1	f x 2 LEVEL 2	f x 3 LEVEL 3	f x 4 LEVEL 4
🔒	Arm/Lock (Panic)	Silent Arm	Sensor Bypass	Sensor Silent Arm	Full Silent Arm
🔓	Disarm/Unlock	Silent Disarm	Remote Valet	Car Finder	
	Remote Start*/ Aux 1/4**				
AUX	Aux/Trunk	AUX 1	AUX 2	AUX 3	AUX 4
f	Advance Level, Enter programming (8 sec)				

* Available only with optional Remote Start module installation

** This button can command either Aux 1 or Aux 4 if turned on by an authorized Directed dealer.

Basic Commands (Direct Access)

Arm

Press and release 

The alarm arms, doors lock (if connected), and the siren chirps and parking lights flash once. If Valet mode* is On, the doors lock without siren chirps, the alarm is disabled. Exit Valet mode to arm the alarm normally.

If a trigger zone fault is detected the siren chirps once again and the control center LED generates a Trigger Zone Fault report**.

To Arm and Panic

Press and **hold** 

The alarm Arms (or Locks in Valet) and, after two seconds, sounds the siren and flashes the parking lights. **Press** the  or  button to stop the output.

Disarm

Press and release 

The alarm disarms, doors unlock (if connected), and the siren chirps and parking lights flash twice.

An Alarm Report** alert of four or five siren chirps will replace the normal disarm chirps if the alarm was triggered.

Remote Start/Aux 1/Aux 4

Press and release 

Remote Start ***

Activates (or if On, deactivates) the remote starter. The engine and parking lights turn On, or the engine and parking lights turn Off accordingly.

AUX1/AUX4 ****

Activates (or if on, deactivates) the aux 1or aux 4 output..

AUX/Trunk

Press and **hold AUX**

The Trunk opens (if connected) when this button is pressed for 2 seconds.

* See *"Remote and System Operations" on page 19.*
** See *"Alarm Features" on page 16* for more details.
*** Available only with optional Remote Start module installation.
**** This feature must be turned on by an authorized Directed dealer.

Advanced Commands: (Level 1)

Press and release the *f* button one time first, before pressing one of the following command buttons. The transmit LED illuminates in sets of single flashes to indicate Level 1.

Silent Arm

Press and release 

The alarm arms, doors lock (if connected), and the parking lights flash once.

Silent Disarm

Press and release 

The alarm disarms, doors unlock (if connected), and the parking lights flash twice. The Silent Disarm output may be replaced by the Alarm Report*

AUX 1

Press and release **AUX**

Activates (or if On, deactivates) the Aux 1 output.

* See *Alarm Features* for details.

Advanced Commands: (Level 2)

Press and release the *f* button two times first, before pressing one of the following command buttons. The transmit LED illuminates in sets of double flashes to indicate Level 2.

Sensor Bypass

Press and release 

Performing the Sensor Bypass command will incrementally bypass sensor operations and be confirmed as follows:

- **Warn-away bypass:** The Parking lights flash two times. Sensors will be activated for Full Trigger levels of impact only.
- **Warn-away & Full trigger bypass:** The Parking lights flash three times. Sensors will not be activated for any level of impact.
- **Sensor Bypass off:** The Parking lights flash 1 time. Sensors are fully operational.

Note	System needs to be armed to perform Sensor Bypass. Perform arm command any time to turn Sensor Bypass Off.

Remote Valet

Press and release 

Enters (or if On, exits) Valet Mode. The Control Center LED turns on and off accordingly.

AUX 2

Press and release **AUX**

Activates (or if On, deactivates) the Aux 2 output.

Advanced Commands: (Level 3)

Press and release the *f* button three times first, before pressing one of the following command buttons. The transmit LED illuminates in sets of triple flashes to indicate Level 3.

Sensor Silent Arm*

Press and release 

The alarm arms, doors lock, and the siren chirps and parking lights flash three times.

Car finder

Press and release 

The siren emits one long chirp and the parking lights flash for 10 seconds. The parking light flashes stop if armed or disarmed while Car Finder is in progress.

AUX 3

Press and release **AUX**

Activates (or if On, deactivates) the Aux 3 output.

* See *"Alarm Features" on page 16* for more details.

Advanced Commands: (Level 4)

Press and release the *f* button four times first, before pressing one of the following command buttons. The transmit LED illuminates in sets of quadruple flashes to indicate Level 4.

Full Silent Arm*

Press and release 

The alarm arms, doors lock, and the siren chirps and parking lights flash four times.

AUX 4

Press and release **AUX**

Activates (or if On, deactivates) the Aux 4 output.

* See *"Alarm Features" on page 16* for more details.

Remote Control Configuration

The remote controls have operations that can be configured to a user's personal preferences. The following instruction directs you through the available programming options for both remote controls.

Remote Programming

To Enter Programming: Press and **hold** the ƒ button for eight seconds, the transmit LED turns on to indicate the Main Menu is accessed.

To Exit Programming: **Press** and release the ƒ button once then press and hold the ƒ button again until the transmit LED shuts off.

Remote Pairing

The following instruction will step you through the remote pairing operation.

Prepare the vehicle system for pairing:

1. **Open** at least one of the vehicle's doors.
2. **Turn** the key to the ON position.
3. Within five seconds **press** and release one time the Control button on the Control Center.
4. Within five seconds, **press** and **hold** the Control button. The status LED will flash one time and the siren will chirp once to confirm the system is ready for remote pairing.
5. **Release** the Control button and proceed to next step.

Prepare the remote control for pairing:

6. Enter programming to access the Main Menu as explained previously.
7. **Press** and **hold** the button for 1 second, 3 transmit LED flashes indicate the remote control is ready to pair.

8. **Press** the  button.
9. Wait several seconds as the remote generates a security encryption and sends it to the Control Center. The siren chirps to indicate Pairing is complete.
   If pairing is not successful press and release the *f* button once and then repeat steps 7 and 8.

Pairing will exit if:

- Step 7 is not completed within 60 seconds
- The doors are closed
- The ignition is turned off.

Remote Features

Enter programming to access the main menu as previously explained, then from the main menu, **press** and hold the  button to access the remote operation features, two transmit LED flashes indicate the remote features menu is accessed. **Press** the buttons indicated in the tables below to set the feature option.

The remote control will flash the Transmit LED to indicate the setting.

Feature	Button Press	Single Flash	Double Flash
Keypad Lock		Auto	Off *
Button Beeps		On*	Off
Car 2		Car 2 On	Car 2 Off *

* Indicates default setting.

Keypad Lock

Options: Off, Auto

When Off, the buttons do not lock and always perform a command when pressed. When set to Auto, the remote buttons lock after a 20 second lapse between button presses to prevent unintentional operations.
To unlock the buttons, press the ƒ button followed by the  button.

Note	If a button is pressed when locked, a fault tone plays as an alert. To unlock the buttons, press the ƒ button followed by the  button, tones are emitted to confirm unlocking.

Car 2

Options: Off, On

The remote controls can control two systems independently. When set to Off, the Car Select feature is not available. When set to On the Car Select feature is enabled. See *Car Select* (under *Remote and System Operations*) for detail on using a remote with two systems.

Sensor Adjust

To avoid unintended alarm triggers; it is recommenced that an authorized Directed dealer performs all sensor adjustments.

Alarm Features

Normal Arm Protection

Status LED: The Control Center Status LED flashes as a visual indicator that your vehicle's security system is active.

Starter Kill: The Failsafe starter kill relay prevents the engine from starting

Note	May require additional parts and installation

Sensor triggers: The shock sensor can distinguish minor impacts from major impacts to the vehicle exterior. Minor impacts causes the system to emit a Warn-away output. Major impacts caused for example by a forcible entry attempt, results in a Full Trigger output.

Point of entry triggers: Opening the hood or trunk causes a Full Trigger output, while opening a Door or turning on the Ignition causes the the siren to chirp three seconds before beginning the Full Trigger output. This three second delay allows time to disarm and silence the siren in case of accidental trigger.

Sensor Silent Arm protection

Sensor Warn-away and Sensor Full Trigger activations are defeated. Point of entry triggers will activate the Full Trigger output.

Full Silent Arm Protection

Sensor Warn-away, Sensor Full Trigger and Point of Entry activations are defeated. Only the Ignition input will activate the Full Trigger output.

Sensor Warn-away output

When the system sensors detect a Warn-away trigger the siren chirps and parking lights flash for 3 seconds.

Full Trigger output

An alarm Full Trigger will sound the siren and flash the parking lights for 30 seconds.

Emergency Override

The following procedure disarms the system when a programmed remote is not available. Number of presses_____

1. **Turn** the ignition On.
2. **Press** the control button on the Control Center the correct number of times (the default is one press).
3. After a few seconds the siren output ceases and the system is disarmed.

Note	As a precaution, if programmed for Passive Arming or Auto re-arming the system should be placed into Valet Mode until a remote is available .

Trigger Zone Fault Report

When armed by remote command the system runs a status check of the alarm trigger zones. Faulty zones (usually caused by dome light delay or open trunk) are bypassed and reported via the control center LED, while all other trigger zones remain active and are monitored to protect the vehicle. Should a faulty zone self correct (dome light turns off) it becomes active and is then monitored normally.

The siren chirps once again a few seconds following the arming chirps as an audible alert, the control center LED flashes in groups to indicate the zone number.

Alarm Report

If the alarm was triggered while armed, it will be reported when the alarm is disarmed via siren chirps, parking light and control center LED flashes. The siren chirps four times (or five times if NPC On*), the parking lights flash three times, and the control center LED flashes in groups to indicate the last two zones that were triggered (see Table of Zones). The report output will repeat for each disarm operation until the ignition is turned on.

* See *Nuisance Prevention (NPC)* for more details.

Table of Zones

Zone # (led flashes)	Zone Name
1	Trunk
2	Shock Sensor
3	Door
4	Sensor 2
5	Ignition
6	Hood

Nuisance Prevention (NPC)

NPC monitors all alarm zones and, if any are triggered excessively, bypasses them until corrected. If a point of entry (trunk, hood, door) is left open following a forced entry, it is bypassed. It becomes active again only after being closed.

Bypassed sensors automatically reset after one hour and after the vehicle is driven. Disarming then re-arming the alarm does not reset bypassed sensors.

Remote and System Operations

Passive Arming*

Park and exit the vehicle, after the doors are closed the Passive arming countdown begins. The led flashes quickly and upon reaching 20 seconds the siren then chirps once. At 30 seconds the system arms itself.

Anytime before the system arms you can re-enter the vehicle or open the trunk to load or unload items and, after closing passive arming resumes.

To stay secure in case of accidental disarming the system, if a door is not opened within 30 seconds the system re-arms itself and locks the doors.

Auto Re-arming*

Auto re-arm ensures the vehicle stays protected if it is not entered after disarming by remote control. After disarming by remote, the alarm automatically re-arms itself (and locks the doors if programmed on) in 30 seconds. Open any point of entry to stop the re-arm until the next disarm by remote.

Onetime Bypass*

Turn the ignition On for one to three seconds and then Off. The siren chirps once to confirm one-time bypass is enabled.

One-time bypass can be used to temporarily bypass the Passive arming operation for one cycle. It also bypasses the comfort closure and auxiliary channel outputs if programmed to activate when arming. After the next disarm all operations return to normal.

* These features must be turned on by an authorized Directed dealer.

Valet Mode

Valet mode can be entered and exited by performing the Remote Valet command or manually using the vehicle key and the control button. When entered, the alarm functions are defeated while the convenience features still operate normally.

Use the following steps to manually enter and exit Valet Mode:

1. **Turn** the ignition switch On and then Off
2. Immediately **press** and **release** the control button once
3. The control center LED turns On when entering and Off when exiting.

Power Save

To reduce power consumption the control center status LED modifies its output if the vehicle is parked for an extended period. If Armed the flashing is reduced after 24 hours. When Valet mode is On the LED turns off after 1 hour and resets each time the ignition is turned off.

Rapid Resume

If power is ever disconnected by a mechanic or thief, the system will resume the state it was in at the time of disconnection, when power is reconnected.

Car Select

Car 2 remote control option must first be turned On (See *Remote Control Configuration* section to turn on). **Press** and **hold** the ƒ button for 3 seconds. The LED flashes once or twice to indicate the selected Car is 1 or 2, **release** the button for Car Select or continue to **hold** for programming.

Release the ƒ button, then **press** and **release** while the LED flashes continue to perform Car Select. Once the car is selected a command can be performed by pressing one of the command buttons.

System Expansion Options

Controlling two vehicles (Car Select)

The remote controls can control systems in two different vehicles saving the need for multiple remote controls. This feature also allows for customized system configurations on each vehicle that has more than one driver. See *Owner Recognition* for details.

Owner recognition *

The system can be configured to recognize the remote used when disarming and change selected features to match the remote users preferences. Memory seat adjustment, siren chirps, passive arming, remote button auto unlocking, alarm output duration can all be custom set for each remote user at the time of installation.

Comfort closure *

Comfort Closure emulates turning the key in the door cylinder or holding the lock button of an OEM keyless entry. It will automatically close the windows and sunroof on vehicles with this type of OEM convenience feature.

Alarm output duration *

The length of time the siren sounds can be adjusted from 1 to 180 seconds at the time of installation.

Arming and Warn-away chirp control *

The system Arm, Disarm and Sensor Warn-away chirps can be configured for those that prefer a custom silent alarm operation.

Driver door priority unlocking *

The door unlocking operation can be configured to emulate an OEM style of driver priority unlocking for added security during disarming.

Auxiliary Channels

The auxiliary channel outputs of this system can activate many of the convenience features found in today's vehicles. The system installer can clarify if any of the following listed features are compatible with your vehicle.

- Trunk Release
- Windows open/close
- Left Sliding door open/close
- Right Sliding door open/close
- Rear Hatch open/close
- Sunroof open/close
- Audio System
- Headlights

* These features must be turned on by an authorized Directed dealer.

Battery Information

The remote controls are powered by 1 coin cell battery (CR-2032) that can be purchased at most retailers. When the battery begins to weaken, the operating range will be reduced. The information and precautions in this section can help maximize your battery's life and usage in providing you with many years of trouble free operation.

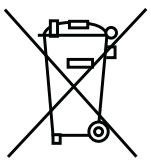
Low Battery Alerts

When disarming the system using a remote with a low battery the siren will emit one additional chirp as an alert. If confirmation chirps are programmed off, the system will still emit one chirp as an alert when disarming.

Battery Replacement

1. If present, remove the small screw on the back of the remote.
2. Use a small flat blade screwdriver and insert it into the slot located along the bottom of the remote, near the key ring. Carefully pry open the case.
3. Gently slide out the used battery to remove it from the holding clip. Orient the new battery for the correct polarity and insert into holding clip.
4. Reposition case parts, and snap together by pressing firmly and evenly on the front and back. Reinstall screw (if applicable).

Battery Disposal



Directed cares about the environment. If you need to dispose of the battery, please do so in accordance with your municipal requirements for battery disposal.

Patent Information

This product is covered by one or more of the following United States patents:

Remote Start Patents:
5,349,931; 5,872,519; 5,914,667; 5,952,933; 5,945,936; 5,990,786; 6,028,372; 6,467,448; 6,561,151; 7,191,053; 7,483,783

Vehicle Security Patents:
5,467,070; 5,532,670; 5,534,845; 5,563,576; 5,646,591; 5,650,774; 5,673,017; 5,712,638; 5,872,519; 5,914,667; 5,952,933; 5,945,936; 5,990,786; 6,028,505; 6,452,484

Other patents pending.

Glossary of Terms

Document Terminology	
Control Module	The "brain" of your system. Usually hidden underneath the dash area of the vehicle. It houses the microprocessor which monitors your vehicle and controls all of the system's functions.
Remote Control	A hand-held, remote control which operates the various functions of your system.
Control Center	The control center contains the system's radio-frequency antenna, the control button, and the Status LED. For maximum remote-control range, the control center is usually located at the top of the windshield, centered near the rear-view mirror.
Status LED	A light used to indicate the status of your system. It is located on your system's Control Center.
Control Button	A small push button located on your system's control center. It is used to override (disarm) the alarm when a remote is not available or to enter or exit Valet Mode.

Government Regulations

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, and (2) This device must accept any interference received, including interference that may cause undesirable operation.

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television, which can be determined by turning the equipment OFF and ON, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

Remote Controls

To satisfy FCC RF exposure compliance requirements, this device should be used in hand-held, hand operated configurations only. The device and its antenna must maintain a separation distance of 20 cm or more from the person's body, except for the hand and wrists, to satisfy RF exposure compliance. This device is designed to be used in a person's hands and its operating configurations do not support normal transmissions while it is carried in pockets or holsters next to a person's body.

Control Center

To satisfy FCC RF exposure compliance requirements, the device and its antenna must maintain a separation distance of 20 cm or more from the person's body, except for the hand and wrists, to satisfy RF exposure compliance.

This device complies with the Industry Canada Radio Standards Specification RSS 210. Its use is authorized only on a no-interference, no-protection basis; in other words, this device must not be used if it is determined that it causes harmful interference to services authorized by IC. In addition, the user of this device must accept any radio interference that may be received, even if this interference could affect the operation of the device.

WARNING! Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

Warning! Safety First

⚠ Please read the safety warnings below before proceeding. Improper use of the product may be dangerous or illegal.

Installation

Due to the complexity of this system, installation of this product must only be performed by an authorized Directed dealer. If you have any questions, ask your retailer or contact Directed directly at 1-800-753-0600.

Interference

All radio devices are subject to interference which could affect proper performance.

Upgrades

Any upgrades to this product must be performed by an authorized Directed dealer. Do not attempt to perform any unauthorized modifications to this product.

Water/Heat Resistance

This product is not designed to be water and/or heat-resistant. Please take care to keep this product dry and away from heat sources. Any damage from water or heat will void the warranty.

Limited lifetime consumer warranty

Directed Electronics. ("Directed") promises to the original purchaser to repair or replace (at Directed's election) with a comparable reconditioned model any Directed unit (hereafter the "unit"), excluding without limitation the siren, the remote transmitters, the associated sensors and accessories, which proves to be defective in workmanship or material under reasonable use during the lifetime of the vehicle provided the following conditions are met: the unit was purchased from an authorized Directed dealer, the unit was professionally installed and serviced by an authorized Directed dealer; the unit will be profession¬ally reinstalled in the vehicle in which it was originally installed by an authorized Directed dealer; and the unit is returned to Directed, shipping prepaid with a legible copy of the bill of sale or other dated proof of purchase bearing the following information: consumer's name, telephone number and address; the authorized dealers name, telephone number and address; complete product description, including accessories; the year, make and model of the vehicle; vehicle license number and vehicle identification number. All components other than the unit, including without limitation the siren, the remote transmitters and the associated sensors and accessories, carry a one-year warranty from the date of purchase of the same. ALL PRODUCTS RECEIVED BY DIRECTED FOR WARRANTY REPAIR WITHOUT PROOF OF PURCHASE FROM AN AUTHORIZED DEALER WILL BE DENIED. This warranty is non-transferable and is automatically void if: the unit's date code or serial number is defaced, missing or altered; the unit has been modified or used in a manner contrary to its intended purpose; the unit has been damaged by accident, unreasonable use, neglect, improper service, installation or other causes not arising out of defects in materials or construction. The warranty does not cover damage to the unit caused by installation or removal of the unit. Directed, in its sole discretion, will determine what constitutes excessive damage and may refuse the return of any unit with excessive damage. TO THE MAXIMUM EXTENT ALLOWED BY LAW, ALL WARRANTIES, INCLUDING BUT NOT LIMITED TO EXPRESS WARRANTY, IMPLIED WARRANTY, WARRANTY OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF NON-INFRINGEMENT OF INTELLECTUAL PROPERTY, ARE EXPRESSLY EXCLUDED; AND DIRECTED NEITHER ASSUMES NOR AUTHORIZES ANY PERSON OR ENTITY TO ASSUME FOR IT ANY DUTY, OBLIGATION OR LIABILITY IN CONNECTION WITH ITS PRODUCTS. DIRECTED DISCLAIMS AND HAS ABSOLUTELY NO LIABILITY FOR ANY AND ALL ACTS OF THIRD PARTIES INCLUDING ITS AUTHORIZED DEALERS OR INSTALLERS. DIRECTED SECURITY SYSTEMS, INCLUDING THIS UNIT, ARE DETERRENTS AGAINST POSSIBLE THEFT. DIRECTED IS NOT OFFERING A GUARANTEE OR INSURANCE AGAINST VANDALISM, DAMAGE OR THEFT OF THE AUTOMOBILE, ITS PARTS OR CONTENTS; AND HEREBY EXPRESSLY DISCLAIMS ANY LIABILITY WHATSOEVER, INCLUDING WITHOUT LIMITATION, LIABILITY FOR THEFT, DAMAGE AND/OR VANDALISM. THIS WARRANTY DOES NOT COVER LABOR COSTS FOR MAINTENANCE, REMOVAL OR REINSTALLATION OF THE UNIT OR

ANY CONSEQUENTIAL DAMAGES OF ANY KIND. IN THE EVENT OF A CLAIM OR A DISPUTE INVOLVING DIRECTED OR ITS SUBSIDIARY, THE VENUE SHALL BE SAN DIEGO COUNTY IN THE STATE OF CALIFORNIA. CALIFORNIA STATE LAWS AND APPLICABLE FEDERAL LAWS SHALL APPLY AND GOVERN THE DISPUTE. THE MAXIMUM RECOVERY UNDER ANY CLAIM AGAINST DIRECTED SHALL BE STRICTLY LIMITED TO THE AUTHORIZED DIRECTED DEALER'S PURCHASE PRICE OF THE UNIT. DIRECTED SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO, ANY CONSEQUENTIAL DAMAGES, INCIDENTAL DAMAGES, DAMAGE TO VEHICLE, DAMAGES FOR THE LOSS OF TIME, LOSS OF EARNINGS, COMMERCIAL LOSS, LOSS OF ECONOMIC OPPORTUNITY AND THE LIKE. NOTWITHSTANDING THE ABOVE, THE MANUFACTURER DOES OFFER A LIMITED WARRANTY TO REPLACE OR REPAIR THE CONTROL MODULE SUBJECT TO THE CONDITIONS AS DESCRIBED HEREIN. THIS WARRANTY IS VOID IF THE UNIT HAS NOT BEEN PURCHASED FROM DIRECTED, OR AN AUTHORIZED DIRECTED DEALER, OR IF THE UNIT HAS BEEN DAMAGED BY ACCIDENT, UNREASONABLE USE, NEGLIGENCE, ACTS OF GOD, NEGLECT, IMPROPER SERVICE, OR OTHER CAUSES NOT ARISING OUT OF DEFECT IN MATERIALS OR CONSTRUCTION.

Some states do not allow limitations on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights and you may also have other rights that vary from State to State.

This warranty is only valid for sale of product(s) within the United States of America and in Canada. Product(s) sold outside of the United States of America or Canada are sold "AS-IS" and shall have NO WARRANTY, express or implied.

For further details relating to warranty information of Directed products, please visit the support section of Directed's website at: www.directed.com

This product may be covered by a Guaranteed Protection Plan ("GPP"). See your authorized Directed dealer for details of the plan or call Directed Customer Service at 1-800-876-0800.

920-10011-01 2011-06

DIRECTED®

The company behind Viper® Auto Security Systems is Directed.

Since its inception, Directed has had one purpose, to provide consumers with the finest vehicle security and accessories available. The recipient of nearly 100 patents and Innovations Awards in the field of advanced electronic technology.

Quality Directed products are sold and serviced throughout North America and around the world.

Call **(800) 876-0800** for more information about our products and services.

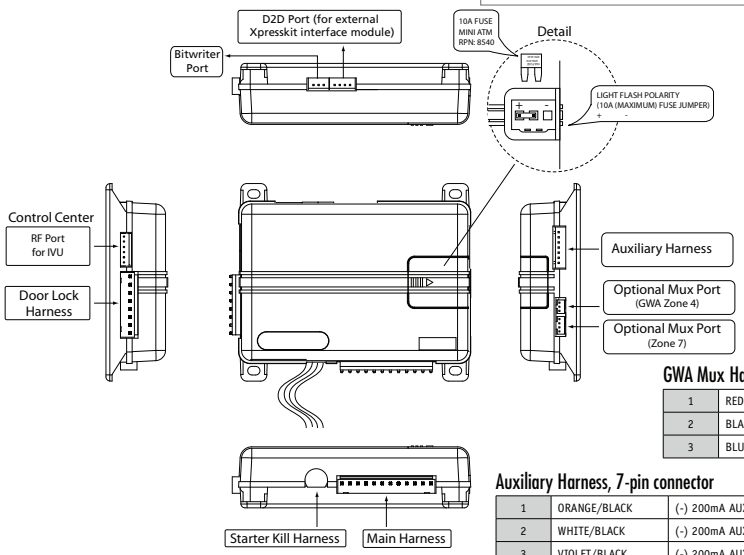
G3606V 2013-07

Vista, CA 92081
www.viper.com

Directed is committed to delivering world class quality products and services that excite and delight our customers.

Quick Reference Install Guide
Responder LCD, LED & 1-way systems

Wiring Connections



Door Lock Harness, 8-pin connector

1	VIOLET	UNLOCK #87 NORMALLY OPEN (INPUT)
2	BLUE/BLACK	UNLOCK #30 COMMON (OUTPUT)
3	BROWN/BLACK	UNLOCK #87a NORMALLY CLOSED
4	VIOLET/BLACK	LOCK #87 NORMALLY OPEN (INPUT)
5	GREEN/BLACK	LOCK #30 COMMON (OUTPUT)
6	WHITE/BLACK	LOCK #87a NORMALLY CLOSED
7	WHITE/VIOLET	FLEX RELAY #87 NORMALLY OPEN (INPUT)
8	WHITE/BROWN	FLEX RELAY #87a NORMALLY CLOSED

Starter Kill Harness, 3-pin connector

1	GREEN/WHITE	STARTER - COMMON (KEY SIDE)
2	GREEN	STARTER - NORMALLY OPEN (MOTOR SIDE)
3	GREEN/BLACK	STARTER - NORMALLY CLOSED (MOTOR SIDE)

Guide Translations

For a Spanish or French version of the Installation Guide, please download it from www.directechs.com under "Resources".

Traducción de los manuales:
Para obtener una versión en Español o Francés del Manual de Instalación, descárguela de www.directechs.com bajo el título "Recursos" ("Resources").

Traduction du guide:
Pour une version française ou espagnole du guide d'installation, veuillez le télécharger à www.directechs.com sous «Resources»..

GWA Mux Harness, 3-pin connector

1	RED	+12 VDC TO SENSOR
2	BLACK	GND TO SENSOR
3	BLUE/WHITE	MUX WIRE INPUT

Auxiliary Harness, 7-pin connector

1	ORANGE/BLACK	(-) 200mA AUX 4 OUTPUT
2	WHITE/BLACK	(-) 200mA AUX 3 OUTPUT
3	VIOLET/BLACK	(-) 200mA AUX 2 OUTPUT
4	LIGHT GREEN/BLACK	(-) 200mA FACTORY ALARM DISARM OUTPUT
5	YELLOW	(+) IGNITION INPUT
6	BROWN	(-) 200mA HORN HONK OUTPUT
7	GREY	N/O or N/C (-) HOOD PIN SWITCH INPUT

Main Harness, 12-pin connector

1	RED/WHITE	(-) 200mA TRUNK RELEASE OUTPUT
2	RED	(+)12VDC CONSTANT INPUT
3	BROWN	(+) SIREN OUTPUT
4	WHITE/BROWN	PARKING LIGHT ISOLATION WIRE - PIN 87a of onboard relay
5	BLACK	(-) CHASSIS GROUND
6	VIOLET	(+) DOOR TRIGGER INPUT
7	BLUE	(-) TRUNK PIN/ INSTANT TRIGGER INPUT (N/C OR N/O)
8	GREEN	(-) DOOR TRIGGER INPUT (N/C OR N/O)
9	BLACK/WHITE	FLEX RELAY OUTPUT
10	WHITE/BLUE	(-) 200mA AUX 1 OUTPUT
11	WHITE	PARKING LIGHT OUTPUT
12	ORANGE	(-) 500mA GROUND WHEN ARMED OUTPUT

Important: NEVER connect 200mA low current outputs directly to a motor or high current device WITHOUT a relay

Installation Points

Adjusting the Shock Sensor

Adjusting with the LE (2-way) or companion (1-way) remote control:

1. Make sure the ignition is off, and the system is disarmed with all open zones closed.
2. **Press** and **hold** the ƒ button of the remote control for 8 seconds until the transmit LED turns on and then release it (If programmed to operate two systems, ignore the transmit LED flashes at 3 seconds).
3. **Press** and **hold** the 🔒 button until the transmit LED flashes off then on and the siren emits a long chirp. Adjustment mode is ready.
4. Adjust the sensitivity:
   - **Press** and release the 🔒 button to increase the sensitivity. The siren chirps two times.
   - **Press** and release the 🔓 button to decrease the sensitivity. The siren chirps one time.
   - **Press** and release the ⟳ button to reset sensitivity to default setting. The siren chirps three times.

Note: The remote control may or may not emit sounds during this operation.

Adjusting with the LCD remote control:

1. Make sure the ignition is off, and the system is disarmed with all open zones closed.
2. **Press** and **hold** the ƒ button of the remote control until a long beep is emitted and Main Menu is displayed. (if programmed to operate two systems, ignore the car 1 or car 2 text and beeps at 3 seconds).
3. **Release** the ƒ button to view the main menu. Setup Remote is displayed.
4. **Press** and **release** the ⟳ button. Sensor Adjust is displayed.
5. **Press** and **hold** the ƒ button until a long beep is emitted and the siren emits a long chirp. The current sensitivity Sen ## is displayed, adjustment mode is ready.
6. Adjust the sensitivity:
   a. **Press** and release the AUX and ⟳ buttons change the sensitivity.
   b. **Press** and **hold** the ƒ button. The adjustment is sent to the system and the remote control emits a long beep as confirmation.
   c. Release the button.

Note: After each adjustment the sensitivity can be tested by cautiously impacting the vehicle with increasing intensity. The siren will chirp to indicate the impact level required to fully trigger the alarm.

Exit adjustment mode:

- **Press** and release the ƒ button any time to exit adjustment mode, and then **press** and **hold** to return the remote control to normal operation (transmit LED turns off).
- **Open** the hood or trunk
- **Turn** the ignition on
- Wait for 30 seconds between steps

The siren will emit one long chirp when exiting adjustment mode.

Long Term Event History

The system stores the last six full triggers in memory. These are not erasable. To access long term event history:

1. With the ignition off, **press** and **hold** the control center button.
2. **Turn** the ignition on.
3. **Release** the control center button.
4. Within 5 seconds, **press** and **release** the control center button. The control center LED flashes in groups indicating the last six zones that triggered the unit for 1 minute or until the ignition is turned off (indicated in the order of most recent first to oldest last). Refer to *Table of Zones*.

Note: The Warn Away triggers are not stored to memory and is not reported.

Table of Zones

A zone is represented by the number of control center LED flashes used by the system to identify a particular type of input.

Zone	Description	Input Description
1	Trunk Pin	H1/7 Blue wire
2	Instant trigger: a heavier impact detected by the onboard shock sensor	On board shock sensor.
3	Door switch trigger	H1/8 Green or H1/6 Violet wire
4	Instant trigger: For optional sensors	3 pin optional GWA MUX port
5	Ignition trigger	H3/5 Yellow wire
6	Hood Pin	H3/7 Grey wire
7	Instant trigger: For optional sensors	4 pin optional MUX port

Basic Remote Functions

Level / Button	Direct Access	ƒ × 1 LEVEL 1	ƒ × 2 LEVEL 2	ƒ × 3 LEVEL 3	ƒ × 4 LEVEL 4
🔒	Arm/Lock (Panic)	Silent Arm	Sensor Bypass	Sensor Silent Arm	Full Silent Arm
🔓	Disarm/Unlock	Silent Disarm	Remote Valet	Car Finder	
⟳	Remote Start*/ Aux 1/4**				
AUX	Aux/Trunk	AUX 1	AUX 2	AUX 3	AUX 4
ƒ	Advance Level Change Car (3s), Enter programming (8s)		Arm Status (2-way only)		

* Available only with optional Remote Start module installation
** This button can command either Aux 1 or Aux 4 if turned on by an authorized Directed dealer.

Important: If the IVU (control center) has been replaced, all remote controls must be re-paired with the system. See Remote Pairing for details.

Bitwriters with a date code of 6a or older require an IC upgrade (p/n 998M). Some bitwriters with a date code of 6B do not require the IC upgrade, refer to tech tip # 1112 for more information.

D2D DATA TO DATA™

The Bitwriter® (p/n 998U) requires chip version **2.7** or newer to program this unit.

See full Installation Guide for more detailed information. Such information and more can be found online at: **www.directechs.com**

DIRECTED®

Programming System Features

The System Features Learn Routine dictates how the unit operates. It is possible to access and change most of the feature settings using the control center button.

1. **Open** a door.
2. **Turn** the ignition on, then off.
3. **Select** a Menu. **Press** and **hold** the control center button. The number of siren chirps indicates the menu number. 1 chirp indicates menu 1, 2 chirps - menu 2.
4. When the desired menu chirps are heard, **release** the control center button.
5. **Select** a Feature. **Press** and **release** the control center button the number of times corresponding to the feature you wish to change. Then **press** and **hold** one more time to select the features.
6. **Program** the Feature. While holding the control center button, you can program the feature using the remote control.

For features with only two options; 🔒 = option 1 while 🔓 = option 2.
For features with more than two options; 🔒 selects the options in ascending order, while 🔓 selects them in descending order.

Note: Pressing ↻ button resets the feature to the factory default.

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 control center button 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 control center button once more and **hold** it.

To select another menu:
1. **Press** and **hold** the control center button.
2. After 3 seconds, the unit advances to the next menu and the siren chirps, indicating which menu has been accessed.

The learn routine exits if any of the following occurs:
- The open door is closed
- The ignition is turned On
- There is no activity for 30 seconds
- The control center button is pressed too many times

Bitwriter - Only Options

If programming with the Bitwriter®, the learn routine can be locked or unlocked. If the learn routine has previously been locked, it must be unlocked with Bitwriter® - this cannot be done manually with the control center button.

The Bitwriter® gives you access to a wider range of system options. These features and the adjustments that may be programmed are described under the Bitwriter section in the full online guide.

Feature Menus

Default settings are in **bold** type (Opt. 1).

Menu 1

Menu Item	Feature	Opt. 1	Opt. 2	Opt. 3	Opt.4	Opt. 5+
1	System Arming Mode	**Active**	Passive Arm – no lock	Passive Arm & lock	Auto Re-arm - no lock	Auto Re-arm & Lock
2	Panic Mode	**On**	Ignition Off Only	Off		
3	Confirmation Chirps	**On - Warn chirps on**	On - Warn chirps off	Off - Warn chirps on	Off - Warn chirps off	
4	Siren Duration	**30 sec.**	60 sec.			
5	Ign-controlled Locks	**No Ign-locking**	Lock & Unlock	Lock Only	Unlock Only	
6	Door Lock Pulses	**Single**	Double Unlock Only	Double Lock Only	Double Lock & Unlock	
7	Door Lock Output Duration	**0.8 sec.**	3.5 sec.	0.4 sec.		
8	2nd Unlock**	**2nd unlock on Ign-control after first unlock**	2nd unlock on Ign-control with first unlock			
9	Comfort Closure	**No Comfort Closure**	Comfort Closure 1	Comfort Closure 2		
10	Horn Function	**Full Alarm Only**	Siren Function 20 ms	Siren Function 30 ms	Siren Function 40 ms	Siren Function 50 ms
11	Hood Switch type	**Normally Open**	Normally closed			
12	Trunk Switch Type	**Normally open**	Normally closed			
13	Door Switch Type	**Normally open**	Normally closed			
14	Immobilizer Type	**Normally Closed**	Normally Open			
15	Sensor Trigger	**Single sensor**	Double sensor			
16	Nuisance Prevention	**On**	Off			
17	Flex Relay	**Dome**	Horn	Trunk release		
18	VRS	**Off**	On - Disarm chirps off	On - Disarm chirps on		
19	Remote Button unlock (Ign off) *	**On**	Off			

* Not applicable to the 1-way remote control.
** Requires 2nd unlock option to be set for an Aux channel.

Menu 2

Menu Item	Feature	Opt. 1	Opt. 2	Opt. 3	Opt.4	Opt. 5+
1	One-time Bypass	**One time bypass Off**	One time bypass On			
2	Override Pulse count	**1**	2	3	4	5
3	Door Trigger Error Chirp	**On**	Off			
4	Ign-controlled Dome light	**On**	Off			
5	OEM Alarm Disarm w/Aux-Trunk	**On**	Off			
6	OEM Alarm Disarm Output	**With Unlock**	Before Unlock	Remote Start Only		
7	OEM Alarm Disarm Pulses	**1**	2			
8	Aux/Trunk Output type	**Validity**	Off	OEM Alarm Arm	2nd unlock	
9	Aux/Trunk Linking	**No Linking**	Link to Arm	Link to Disarm	Link to Arm/ Disarm	
10	Aux 1 Output type	**Validity**	Latch	Latch/ reset/ign	Timed	Off (5) OEM Alarm Arm (6), 2nd Unlock (7), Remote Start Report (8)
11	Aux 1 Linking	**No Linking**	Link to Arm	Link to Disarm	Link to Arm/ disarm	
12	Aux 2 Output Type	**Validity**	Latch	Latch reset/ign	Timed	Off (5) OEM Alarm Arm (6), 2nd Unlock (7), N/O Door Switch (8), N/C Door Switch (9)
13	Aux 2 Linking	**No Linking**	Link to Arm	Link to Disarm	Link to Arm/ Disarm	
14	Aux 3 Output Type	**Validity**	Latch	Latch reset/ign	Timed	Off (5) OEM Alarm Arm (6), 2nd Unlock (7), N/O Door Switch (8), N/C Door Switch (9)
15	Aux 3 Linking	**No Linking**	Link to Arm	Link to Disarm	Link to Arm/ Disarm	
16	Aux 4 Output Type	**Validity**	Latch	Latch reset/ign	Timed	Off (5) OEM Alarm Arm (6), 2nd Unlock (7), N/O Door Switch (8), N/C Door Switch (9) Remote Start Report (10)
17	Aux 4 Linking	**No linking**	Link to Arm	Link to Disarm	Link to Arm/ Disarm	
18	Remote Start Button Control	**None**	Aux 1	Aux 4		

Reset and Delete

To reset the features/virtual tach or delete remote controls follow this procedure:
1. Open at least one vehicle door
2. Turn the key to the ON position
3. Within 5 seconds press and release the control button: 2 times to delete remotes, 3 times to reset the features to default.
4. Once you have selected the function step, press the control button once more and hold it. The LED will flash and the siren will chirp to confirm the functional step chosen. Release the control button.
5. Press the 🔒 button of a programmed remote control. The siren will chirp confirming the feature has been reset/deleted.

Note: Deleting a remote control does not reset the features, resetting the features does not delete remote controls.

Reset/delete will exit if:
- The ignition is turned off
- The open door is closed
- 60 seconds lapses with no actions.

Remote Pairing

Prepare the vehicle system to be Paired with a new remote
1. **Open** at least one vehicle door.
2. **Turn** the key to the ON position.
3. Within 5 seconds **press** and **release** the Control button on the Control Center one time.
4. Within 5 seconds, **press** and **hold** the Control button on the Control Center. The status LED begins flashing in single flash sequence and the siren chirps once to confirm the system is ready for remote pairing. **Release** the button.
5. Locate your remote control model below and follow the instructions.

System Pairing will exit if:
- The ignition is turned off
- The open door is closed
- 60 seconds lapses with no actions

Note: Make sure the remote to be paired with the system is set for the desired Car 1 or Car 2 operation.

LCD Remote Control:
1. Press and hold the ƒ button for 8 seconds, the remote beeps once, Main Menu is displayed. Release the ƒ button.
2. Press the **AUX** or ↻ buttons until Pair is displayed.
3. Press and hold the ƒ button until the remote beeps 3 times then release the ƒ button. The remote is now ready to pair with the system.
4. Press the 🔒 button.
5. Wait several seconds for feedback as the remote generates a security encryption and sends it to the Control Center. If pairing is successful the siren chirps and the remote emits several tones. The screen displays if the Pairing is successful or failed with corresponding text. If pairing fails repeat step 4.

To exit pairing mode on the remote:
- Press and release the 🔓 button.
- Wait 30 seconds without pressing a command button on the remote.

Responder LED or Companion Remote Control:
1. Press and hold the ƒ button for 8 seconds. The transmit LED will come on solid. Release the ƒ button.
2. Press and hold the ↻ until the transmit LED flashes 3 times then comes on solid.
3. Press the 🔒 button.
4. Wait several seconds for feedback as the remote generates a security encryption and sends it to the Control Center. If pairing is successful the siren will chirp and the 2-way remote will emit several tones (the companion remote does not generate tones). If pairing is not successful press and release the ƒ button once and then repeat steps 2 and 3.

To exit pairing mode on the remote:
- Press and release the ƒ button once, then press and hold until the transmit LED shuts off.
- Wait 30 seconds without pressing a command button on the remote control.

Note: See Owner's guide for more details.

DIRECTED®

1-Way Model: 3606
Security System
Installation Guide

This product is intended for installation by a professional installer only! Attempts to install this product by a person other than a trained professional may result in severe damage to a vehicle's electrical system and components.

N3x06 2015-12

The Bitwriter® (P/N 998U) requires chip version 2.7 or newer to program this unit.

Bitwriters with a date code of 6A or older require an IC upgrade (P/N 998M). Some Bitwriters with a date code of 6B do not require the IC upgrade, refer to *Tech Tip #1112* for more information.

D2D DATA TO DATA™

Table of Contents

Warning! Safety First

⚠ The following safety warnings must be observed at all times:

- Due to the complexity of this system, installation of this product must only be performed by an authorized Directed dealer.
- When properly installed, this system can start the vehicle via a command signal from the remote control. Therefore, never operate the system in an area that does not have adequate ventilation.

The following precautions are the sole responsibility of the user; however, authorized Directed dealers should:

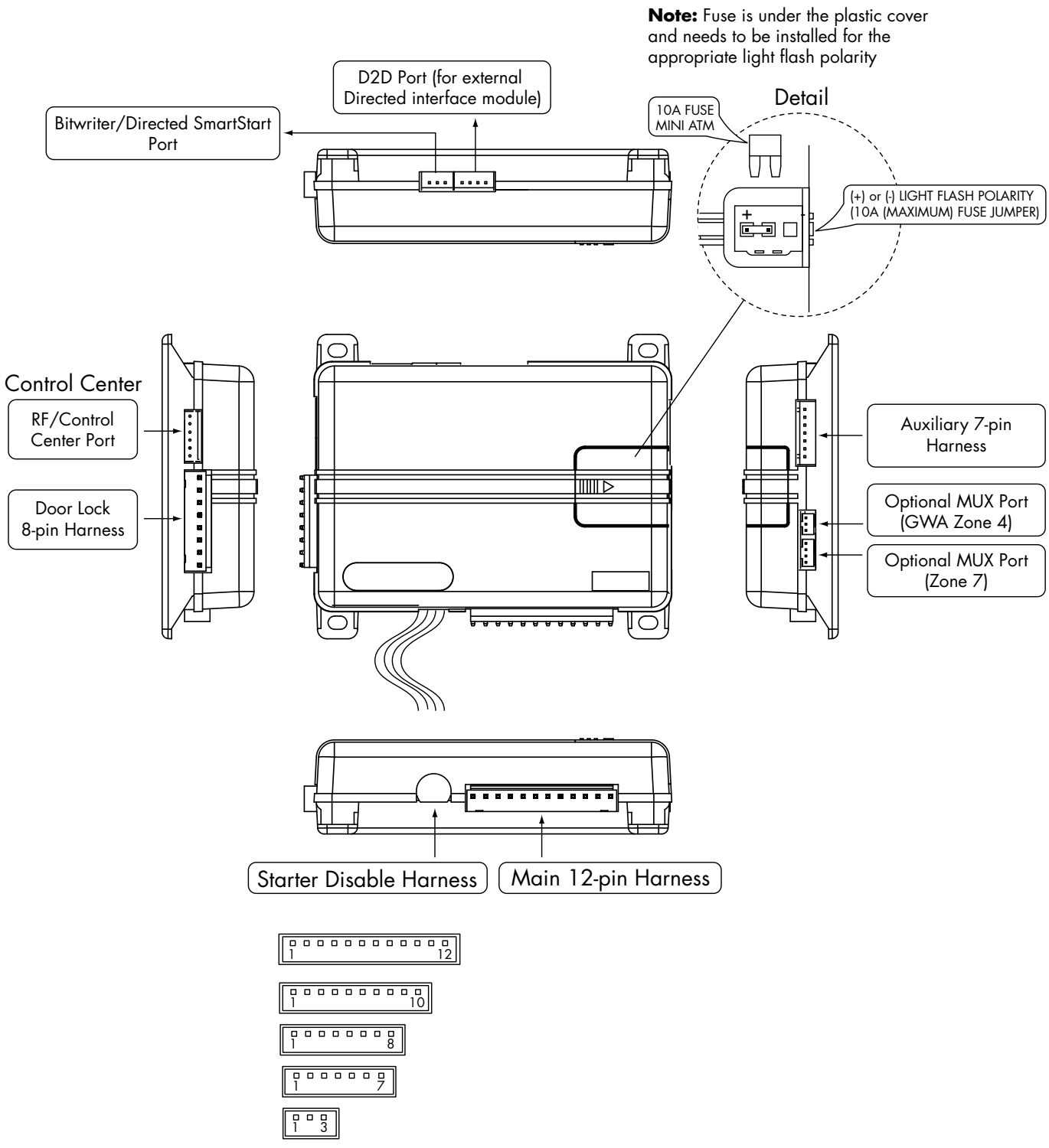
- Never use a test light or logic probe when installing this unit. Always use a multimeter.
- Never operate the system in an enclosed or partially enclosed area without ventilation (such as a garage).
- When parking in an enclosed or partially enclosed area or when having the vehicle serviced, the remote start system must be disabled using the installed toggle switch. It is the user's sole responsibility to properly handle and keep out of reach from children all remote controls to assure that the system does not unintentionally remote start the vehicle.
- USER MUST INSTALL A CARBON MONOXIDE DETECTOR IN OR ABOUT THE LIVING AREA ADJACENT TO THE VEHICLE. ALL DOORS LEADING FROM ADJACENT LIVING AREAS TO THE ENCLOSED OR PARTIALLY ENCLOSED VEHICLE STORAGE AREA MUST REMAIN CLOSED AT ALL TIMES.

Use of this product in a manner contrary to its intended mode of operation may result in property damage, personal injury, or death. Except when performing the Safety Check outlined in this installation guide, (1) Never remotely start the vehicle with the vehicle in gear, and (2) Never remotely start the vehicle with the keys in the ignition. The user is responsible for having the neutral safety feature of the vehicle periodically checked, wherein the vehicle must not remotely start while the car is in gear. This testing should be performed by an authorized Directed dealer in accordance with the Safety Check outlined in this product installation guide. If the vehicle starts in gear, cease remote start operation immediately and consult with the user to fix the problem immediately.
After the remote start module has been installed, test the remote start module in accordance with the Safety Check outlined in this installation guide. If the vehicle starts when performing the Neutral Safety Shutdown Circuit test, the remote start unit has not been properly installed. The remote start module must be removed or properly reinstalled so that the vehicle does not start in gear. All installations must be performed by an authorized Directed dealer.

OPERATION OF THE REMOTE START MODULE IF THE VEHICLE STARTS IN GEAR IS CONTRARY TO ITS INTENDED MODE OF OPERATION. OPERATING THE REMOTE START SYSTEM UNDER THESE CONDITIONS MAY RESULT IN PROPERTY DAMAGE OR PERSONAL INJURY. IMMEDIATELY CEASE THE USE OF THE UNIT AND REPAIR OR DISCONNECT THE INSTALLED REMOTE START MODULE. DIRECTED WILL NOT BE HELD RESPONSIBLE OR PAY FOR INSTALLATION OR REINSTALLATION COSTS.

Remote starters for manual transmission pose significant risks if not properly installed and operated. When testing to ensure the installation is working properly, only remote start the vehicle in neutral gear, on a flat surface and with a functional, fully engaged parking brake. Do not allow anyone to stand in front of or behind the vehicle.
This product should **not** be installed in any convertible vehicles, soft or hard top with a manual transmission. Installation in such vehicles may pose certain risk.

Wiring Diagram



Wiring Connections

Main Harness, White 12-pin connector

1	RED/WHITE	(-) 200mA AUX/TRUNK RELEASE OUTPUT
2	RED	(+)12VDC CONSTANT INPUT
3	BROWN	(+) SIREN OUTPUT
4	WHITE/BROWN	PARKING LIGHT ISOLATION WIRE - #87a of onboard relay
5	BLACK	(-) CHASSIS GROUND
6	VIOLET	(+) DOOR TRIGGER INPUT
7	BLUE	(-) TRUNK PIN/ INSTANT TRIGGER INPUT (Programmable N/O or N/C)
8	GREEN	(-) DOOR TRIGGER INPUT (Programmable N/O or N/C)*
9	BLACK/WHITE	DOME LIGHT SUPERVISION/FLEX RELAY (Programmable) OUTPUT
10	WHITE/BLUE	(-) 200mA AUX 1 OUTPUT
11	WHITE	PARKING LIGHT OUTPUT
12	ORANGE	(-) 500mA (GWA) GROUND WHEN ARMED OUTPUT

* When using the N/C (Normally Closed) setting, this wire only covers one door. Use AUX (Auxiliary) outputs 2, 3 or 4 (as necessary) programmed as N/C door switch inputs (wired to each individual door of the vehicle) to cover the other doors. The auxiliary outputs are also programmable as N/O (Normally Open) door switch inputs so you can connect multiple doors without the use of diodes.
When the auxiliaries are programmed for these types of circuits and connected to the vehicle, the alarm reports a door violation when triggered.

Important: NEVER connect the 200mA low current outputs directly to a motor or high current device WITHOUT a relay.

Door Lock Harness, White 8-pin connector

1	VIOLET*	UNLOCK #87 NORMALLY OPEN (INPUT)
2	BLUE/BLACK	UNLOCK #30 COMMON (OUTPUT)
3	BROWN/BLACK	UNLOCK #87a NORMALLY CLOSED
4	VIOLET/BLACK*	LOCK #87 NORMALLY OPEN (INPUT)
5	GREEN/BLACK	LOCK #30 COMMON (OUTPUT)
6	WHITE/BLACK	LOCK #87a NORMALLY CLOSED
7	WHITE/VIOLET**	DOME LIGHT SUPERVISION FLEX RELAY #87 NORMALLY OPEN (INPUT)
8	WHITE/BROWN**	FLEX RELAY #87a NORMALLY CLOSED

* Violet and Violet/Black are common at the fuse holder.

** These wires work in conjunction with the 12-pin Black/White wire. The White/Violet determines what the polarity of the 12-pin Black/White wire will be and the White/Brown will only be used if a five wire isolation circuit is required.

Auxiliary Harness, White 7-pin connector

1	ORANGE/BLACK	(-) 200mA AUX 4 OUTPUT
2	WHITE/BLACK	(-) 200mA AUX 3 OUTPUT
3	VIOLET/BLACK	(-) 200mA AUX 2 OUTPUT
4	LIGHT GREEN/BLACK	(-) 200mA FACTORY ALARM DISARM OUTPUT
5	YELLOW	(+) IGNITION INPUT
6	BROWN	(-) 200mA HORN HONK OUTPUT
7	GRAY	(-) HOOD PIN INPUT (Programmable N/O or N/C)

Important: NEVER connect the 200mA low current outputs directly to a motor or high current device WITHOUT a relay.

Starter Disable Harness, White 3-pin connector

1	GREEN/WHITE	STARTER - COMMON (KEY SIDE)
2	GREEN	STARTER - NORMALLY OPEN (MOTOR SIDE)
3	GREEN/BLACK	STARTER - NORMALLY CLOSED (MOTOR SIDE)

Sensor MUX Harness, Green 3-pin connector

1	RED	+12V DC TO SENSOR
2	BLACK	GND TO SENSOR
3	BLUE/WHITE	MUX WIRE INPUT

D2D Harness, Red 4-pin connector

1	BLUE	D2D - TX
2	BLACK	(-) GROUND
3	GREEN	D2d - RX
4	RED	(+) 12V

Bitwriter/Directed SmartStart Harness, Black 3-pin connector

1	RED	(+) 12V
2	ORANGE	ESP 2 - RX/TX
3	BLACK	(+) 12V

Wire Descriptions

Main Harness, 12-pin connector

Red/White: (-) AUX/TRUNK RELEASE OUTPUT
This (-) 200mA output is often used to operate a trunk/hatch release or other relay-driven functions. When the system receives the command controlling trunk release (for longer than 1.5 seconds) the Red/White wire will supply an output as long as the transmission continues. This output can also be programmed as an OEM Alarm Arm or as a 2nd Unlock output (see *AUX/Trunk Output Type* in Feature Menus for more details).

Important: Never connect the 200mA low current outputs directly to a motor or high current device WITHOUT a relay.

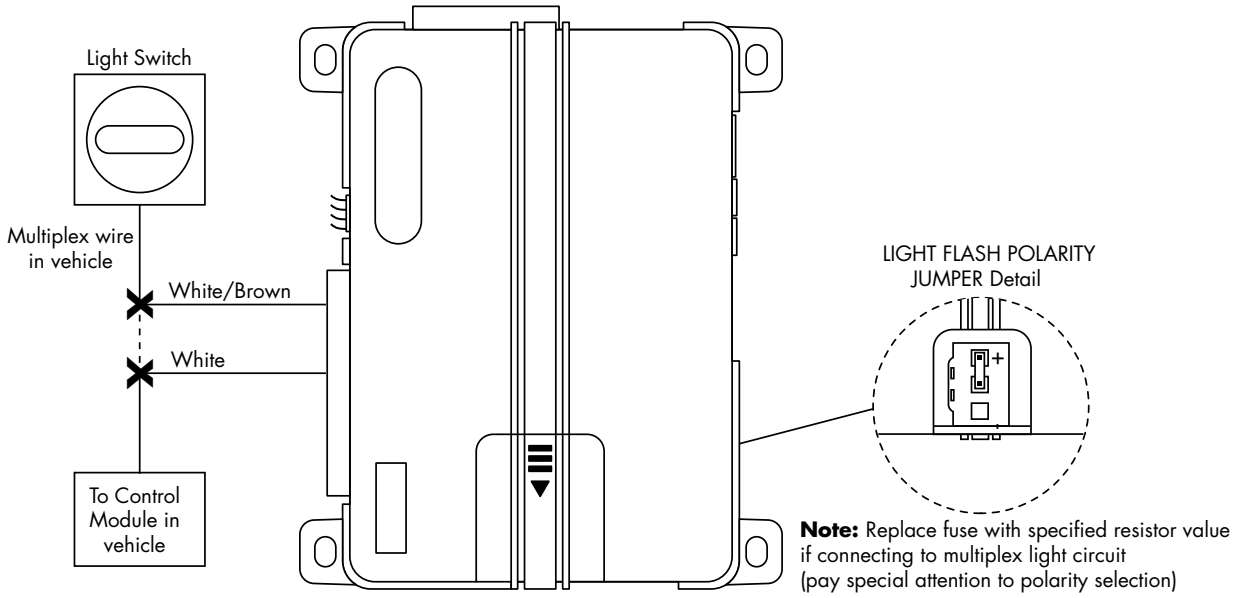
Red: (+) 12V CONSTANT INPUT
This wire supplies power to the unit's micro-controller. Remove the supplied fuse before connecting to the (+) terminal of the battery or another constant +12V supply. Make sure to replace the fuse once all connections have been made.
Note: Always use a fuse within 12 inches of the point from which you obtain (+) 12V. Do not use the 15A use in the harness for this purpose. This fuse protects the module only.

Brown: (+) SIREN OUTPUT
This wire is the (+) output for the siren. This wire connects to the (+) input of the siren.

White/Brown: PARKING LIGHTS FLASH ISOLATION WIRE (#87a of onboard relay)
This wire is a parking lights flash input from the vehicle light switch which connects to pin #87a of the onboard lights flash relay. It is used for vehicles requiring light switch isolation during parking lights flash output.

For vehicles with multiplex light circuits which require a resistor, the onboard lights flash fuse can be replaced with the specified resistor value (pay attention to appropriate circuit polarity). See the following diagram for wiring information.

Multiplex Parking Lights



Black: (-) CHASSIS GROUND
This wire is the unit's source of ground. DO NOT connect this wire to any factory ground points; they can cause noise and/or voltage drops which can affect system performance. Ground the unit and any accessories to the same point in the vehicle (preferably the kick panel). Scrape away any paint and make your own ground with a screw and a star washer.

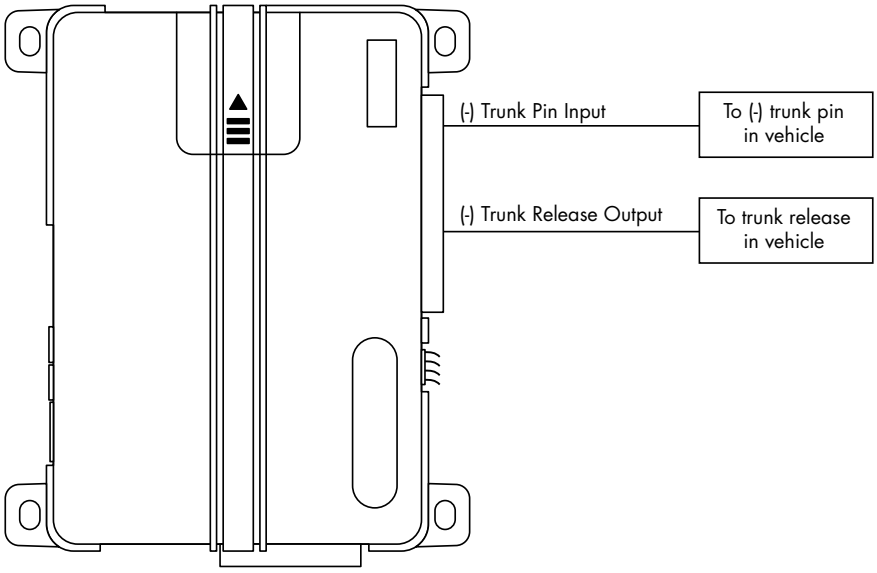
Violet: (+) DOOR TRIGGER INPUT
This input wire is used in vehicles with (+) door trigger circuit and will sound the alarm when any of the vehicle's doors are opened.

Blue: (-) TRUNK TRIGGER/INSTANT TRIGGER INPUT N/O (Normally Open) OR N/C (Normally Closed)
This input wire comes factory set for use in vehicles with a (-) trunk trigger circuit and will sound the alarm when the vehicle's trunk is opened. It can also be used as an instant trigger input for use with a Directed single zone sensor. This wire can be programmed for a N/O (Normally Open) or N/C (Normally Closed) circuit.

N/O = rests at ground when the trunk is OPEN, N/C = rests at ground when the trunk is CLOSED.
(see *Trunk Switch Type* in Feature Menus for more details).

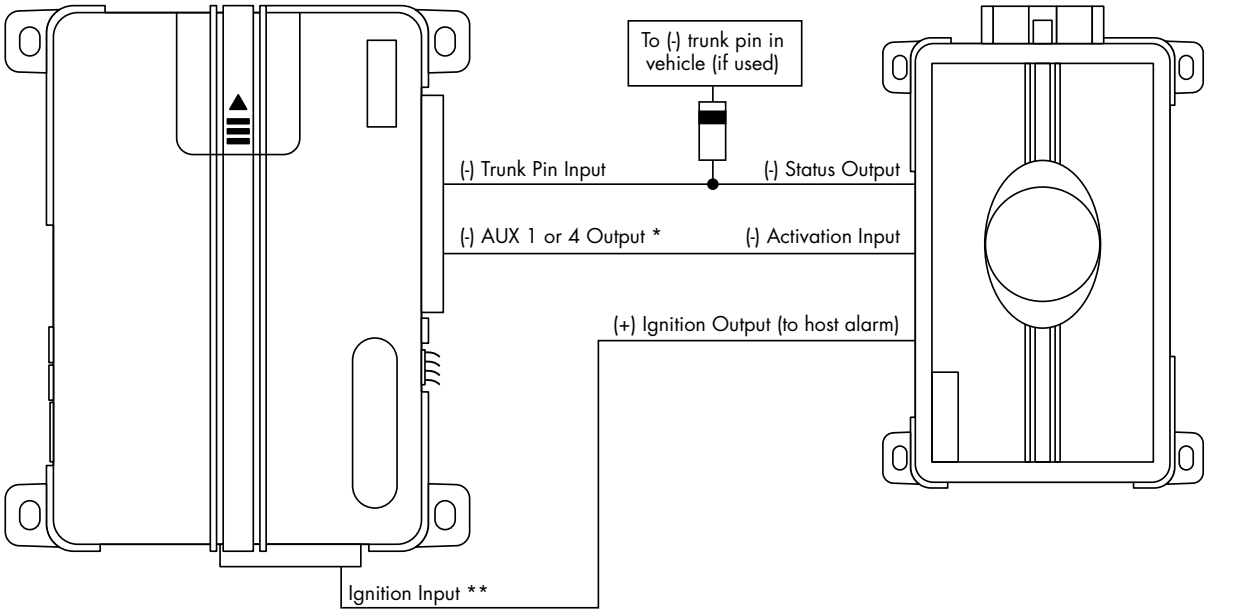
Note: There are times when you need to temporarily bypass all sensor inputs to the unit, such as when activating the trunk release or when adding an optional remote start to the system. Anytime an auxiliary output is used, all trigger inputs (except the door trigger input) are bypassed for 5 seconds. During the 5 second period, if the system receives a (-) ground on the 12-pin Blue trunk trigger input wire, all trigger inputs will remain bypassed until 5 seconds after the ground is removed from the Trunk trigger input wire. Refer to the following diagrams for wiring/programming information.

Trunk Release Sensor Shunt



Remote Start Sensor Shunt

Remote Starter System



* AUX 1 or 4 must be programmed as Remote Start Report (see *AUX 1 or AUX 4 Output Type* in Feature Menus for more details).

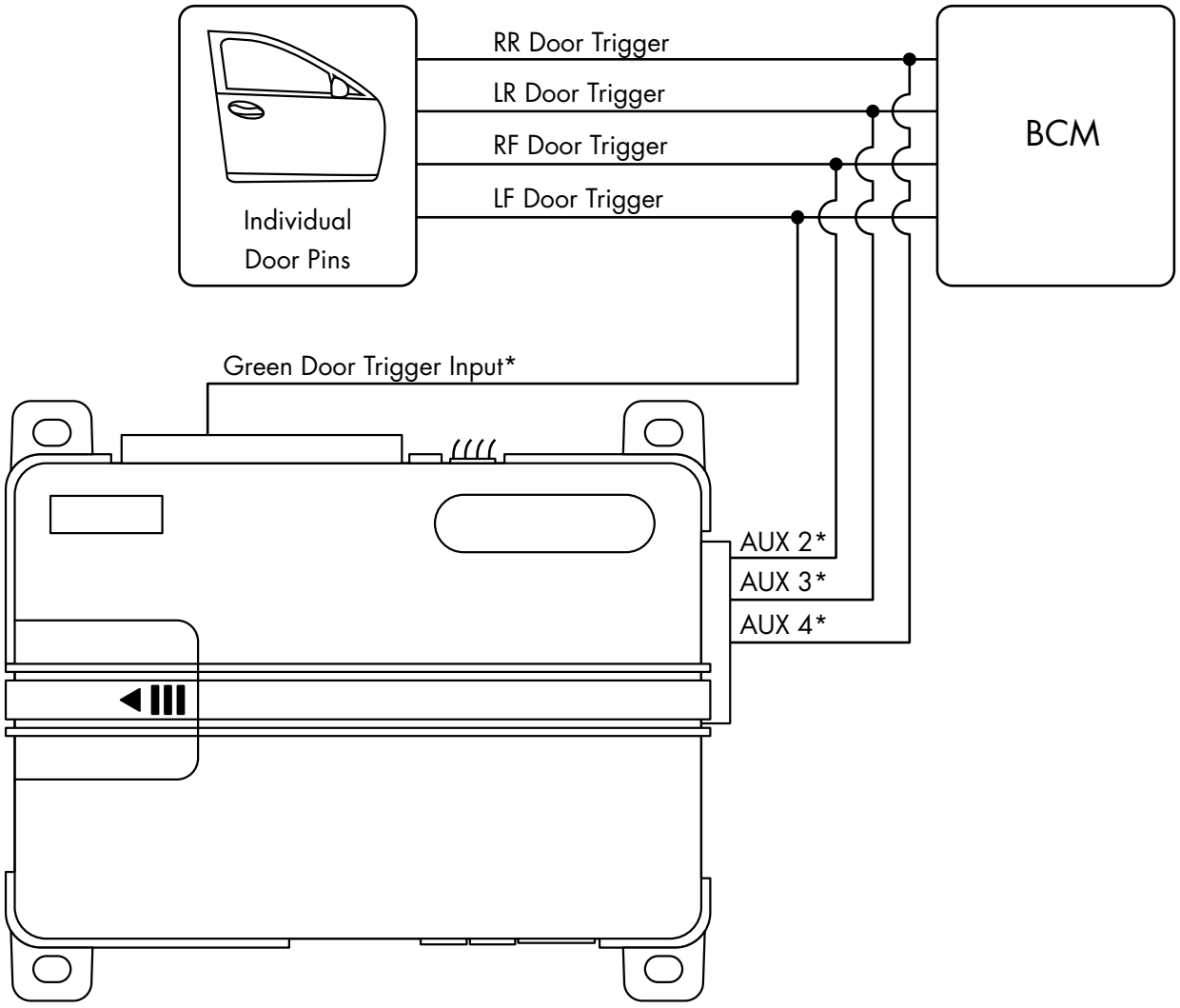
** Do not connect the ignition input of the system to the vehicle, connect to the Ignition Output of an add-on Directed Remote Start System.

Green: (-) DOOR TRIGGER INPUT (N/O OR N/C)
This input wire comes factory set for use in vehicles with (-) door trigger circuit and will sound the alarm when any of the vehicle's doors are opened. This wire can be programmed for a N/O (Normally Open) or N/C (Normally Closed) circuit.

N/O = rests at power or ground when the door is OPEN, N/C = rests at power or ground when the door is CLOSED, (see *Door Switch Type* in Feature Menus for more details).

Note: This wire can only monitor one door when used in a Normally Closed circuit if all doors want to be connected to individually, use AUX 2-4 outputs and refer to AUX Output Type in the Feature Menus for programming to work with Normally Closed Door Trigger circuits. Refer to the following diagram for wiring information.

N/C (Normally Closed) Door Triggers



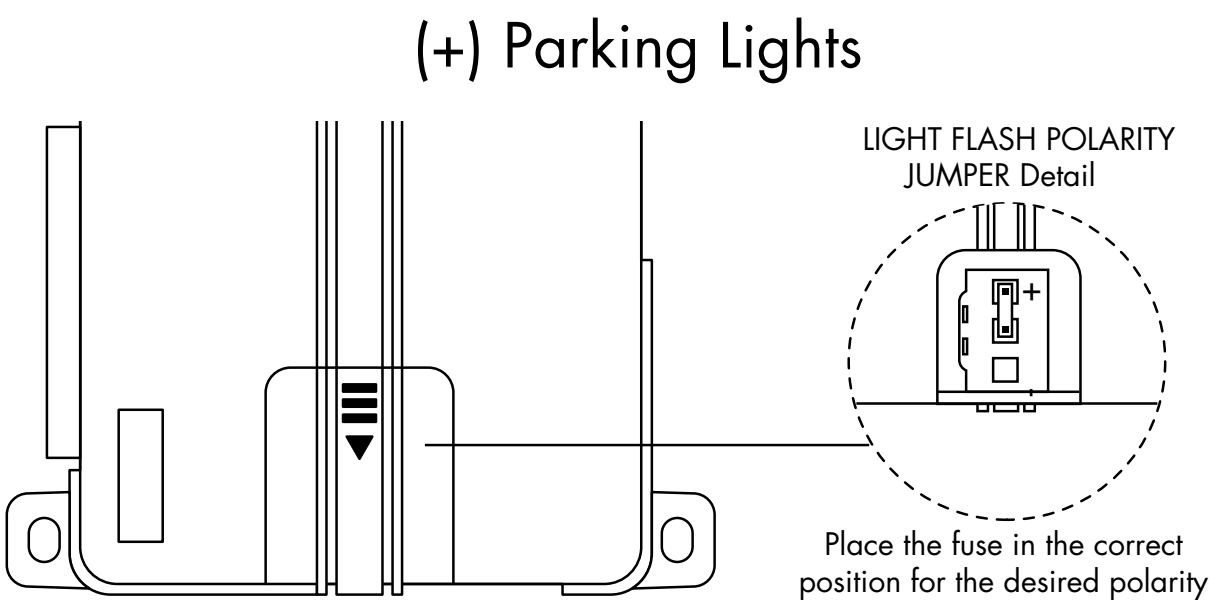
* Default is N/O and must be programmed for N/C
when connecting to Normally Closed door trigger circuits.

Black/White: DOME LIGHT/FLEX RELAY OUTPUT
This wire is pin #30 of the onboard Dome Light/Flex Relay and works in conjunction with the White/Violet (pin #87) and the White/Brown (pin #87a) wires on the 8-pin Door Lock Harness.
This output is default to drive the dome light circuit in the vehicle. This output activates when disarming/unlocking the system and when turning the ignition OFF in the vehicle (for programmable ON/OFF ignition controlled dome light (see *Ign-controlled Dome Light* in Feature Menus for more details). The Flex Relay can also be programmed as a Horn Honk or Trunk Release output (see *Flex Relay* in Feature Menus for more details).

White/Blue: (-) AUXILIARY 1 OUTPUT
This (-) 200mA output is used for controlling any auxiliary function such as fuel door release or a window module. This output can be programmed for different applications. (see *AUX 1 options* in Feature Menus for more details).

Important: Never connect the 200mA low current outputs directly to a motor or high current device WITHOUT a relay.

White: (+) or (-) PARKING LIGHTS OUTPUT
This wire should be connected to the parking lights wire in the vehicle. It activates when the system is armed/disarmed and when the alarm is triggered. It can be set for a (-) or (+) output. See the following diagram for setting the lights flash polarity.



Orange: (-) GWA (GROUND WHEN ARMED OUTPUT)
This wire supplies a (-) 500mA ground output as long as the system is armed. This output ceases as soon as the system is disarmed. The GWA can be hooked up to a voice module or any accessory which requires a ground when armed.

Door Lock Harness, 8-pin connector

Identifying the Door Lock System - Refer to Directed *Tech Tip #1041*: Door Locking Systems Wiring Guide for more information. This system has onboard door lock relays and can be interfaced with most power door lock systems drawing 15 amps or less.

Violet: UNLOCK RELAY PIN #87 (POLARITY INPUT)
This wire determines the polarity of the Blue/Black unlock output wire.
Note: This wire is connected to the Violet/Black Lock Relay Input wire, the connection is made at the fuse holder.

Blue/Black: UNLOCK RELAY PIN #30 (OUTPUT)
This wire connects to the door unlock circuit in the vehicle. It can be programmed to unlock the vehicle when the ignition is turned OFF, for a double pulse output and for output duration (see *Ign-controlled Locks, Door Lock Pulses* or *Door Lock Duration* in Feature Menus for more details).

Brown/Black UNLOCK RELAY PIN #87A (ISOLATION WIRE)
This wire connects to the switch side of a 5-wire door unlock circuit.

Violet/Black: LOCK RELAY PIN #87 (POLARITY INPUT)
This wire determines the polarity of the Green/Black lock output wire.
Note: This wire is connected to the Violet Unlock Relay Input wire, the connection is made at the fuse holder.

Green/Black: LOCK RELAY PIN #30 (OUTPUT)
This wire connects to the door lock circuit in the vehicle. It can be programmed to lock the vehicle when the ignition is turned ON, for a double pulse output and for output duration. Additionally this output may be used for Comfort Closure for vehicles which can close the windows (and in some cases the sunroof) while holding the key to the lock position in the door key cylinder (see *Ign-controlled Locks, Door Lock Pulses, Door Lock Duration or Comfort Closure* in Feature Menus for more details).
Note: The doors of the vehicle must be closed when turning the ignition ON for the ignition controlled door lock feature to work.

White/Black: LOCK RELAY PIN #87A (ISOLATION WIRE)
This wire connects to the switch side of a 5-wire door lock circuit.

White/Violet: DOME LIGHT/FLEX RELAY POLARITY INPUT
This wire is pin #87 of the onboard Dome Light/Flex Relay and works in conjunction with the White/Brown (pin #87a) and the Black/White (pin #30) wires on the 8-pin Door Lock Harness and 12-pin Main Harness. This input is used to determine the polarity output of the Black/White wire from the 12-pin Main Harness. The Flex Relay activates when disarming/unlocking the system and when turning the ignition OFF in the vehicle (for programmable ON/OFF ignition controlled dome light see *Ign-controlled Dome Light* in Feature Menus for more details). The Flex Relay can also be programmed as a Horn Honk or Trunk Release output (eee *Flex Relay* in Feature Menus for more details).

White/Brown: DOME LIGHT/FLEX RELAY ISOLATION WIRE
This wire is pin #87a of the onboard Dome Light/Flex Relay and works in conjunction with the White/Violet (pin #87) and the Black/White (pin #30) wires on the 8-pin Door Lock Harness and 12-pin Main Harness. This wire is used to isolate the dome light circuit in the vehicle and is typically used for 5-wire circuit. This relay activates when disarming/unlocking the system and when turning the ignition OFF in the vehicle (for programmable ON/OFF ignition controlled dome light see *Ign-controlled Dome Light* in Feature Menus for more details). The Flex Relay can also be programmed as a Horn Honk or Trunk Release output (see *Flex Relay* in Feature Menus for more details).

Auxiliary Harness, 7-pin connector

Orange/Black: (-) AUXILIARY 4 OUTPUT/INPUT
This (-) 200mA output is used for controlling any auxiliary function such as fuel door release or a window module. This output can be programmed for different applications including a N/O or N/C door trigger input. (see the *AUX 4 Output Types* in Feature Menus for more details).

White/Black: (-) AUXILIARY 3 OUTPUT/INPUT
This (-) 200mA output is used for controlling any auxiliary function such as fuel door release or a window module. This output can be programmed for different applications including a N/O or N/C door trigger input. (see the *AUX 3 Output Types* in Feature Menus for more details).

Violet/Black: (-) AUXILIARY 2 OUTPUT/INPUT
This (-) 200mA output is used for controlling any auxiliary function such as a fuel door release or a window module. This output can be programmed for different applications including a N/O or N/C door trigger input. (see the *AUX 2 Output Types* in Feature Menus for more details).

Green/Black: (-) FACTORY ALARM DISARM OUTPUT
This 200mA output is used to disarm the factory alarm and triggers when the system is disarmed and when activating the trunk release output. It typically connects to the Factory Alarm Disarm wire in the vehicle. This output can be programmed to activate with unlock, trunk release and for a single or double pulse output (see *OEM alarm Disarm Options* in Feature Menus for more details).

Yellow: (+) IGNITION INPUT
Connect this wire to the (+) 12V ignition wire in the vehicle. This wire must show (+) 12V with the key in RUN position and during cranking. Take care to insure that this wire cannot be shorted to the vehicle chassis at any point. If you are adding a remote start to the system, the ignition input will not be connected to the vehicle instead it will connect to the host system ignition output of the remote start (see the *Remote Start Sensor Shunt* diagram on page 9 for wiring information).

Brown: (-) HORN HONK OUTPUT
This wire supplies a (-) 200mA output which can be used to honk the vehicle's horn. This output pulses when the alarm has been panicked or triggered. This output can be programmed to operate similar to the siren output wire, it will generate a single pulse when lock the doors with the remote, and two pulses when unlocking with the remote. (see *Horn Function* in Feature Menus for more details).

Gray: HOOD TRIGGER INPUT (N/O OR N/C)
This input wire is default for use in vehicles with a (-) hood trigger circuit and will sound the alarm when the vehicle's hood is opened. This wire can be programmed for a N/O (Normally Open) N/C (Normally Closed) circuit.
N/O = rests at power or ground when the hood is OPEN, N/C = rests at power or ground when the hood is CLOSED. (see *Hood Switch Type* in Feature Menus for more details).

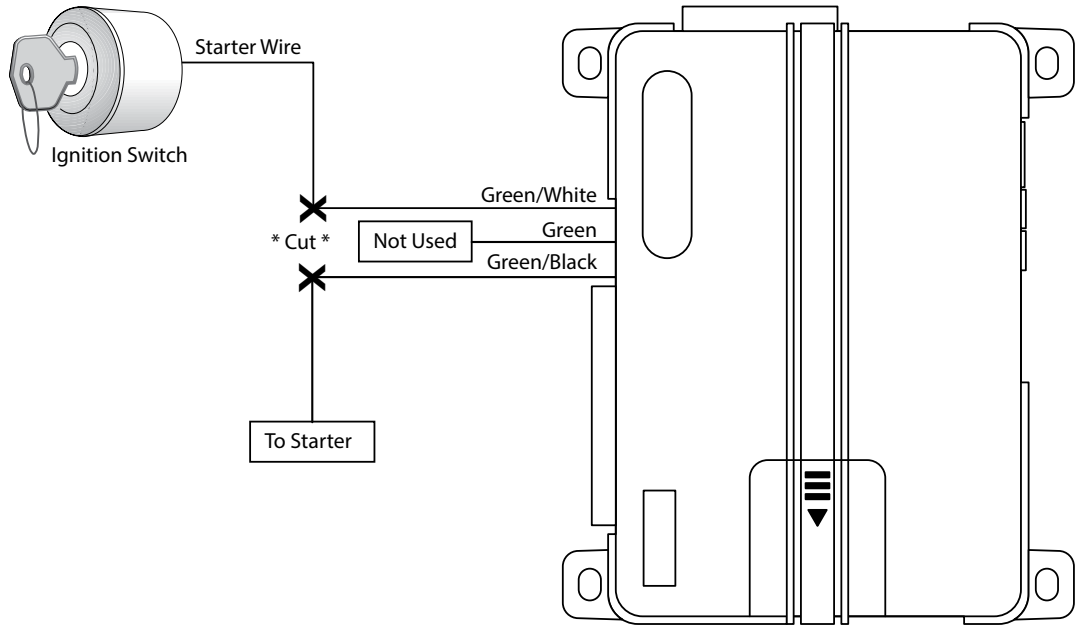
Starter Disable Harness, 3-pin connector

Green/White: STARTER DISABLE RELAY COMMON PIN #30
This wire will be used in both the Normally Closed and Normally Open type of starter disable setups. This wire connects to the Ignition Switch side of the cut starter wire in the vehicle.

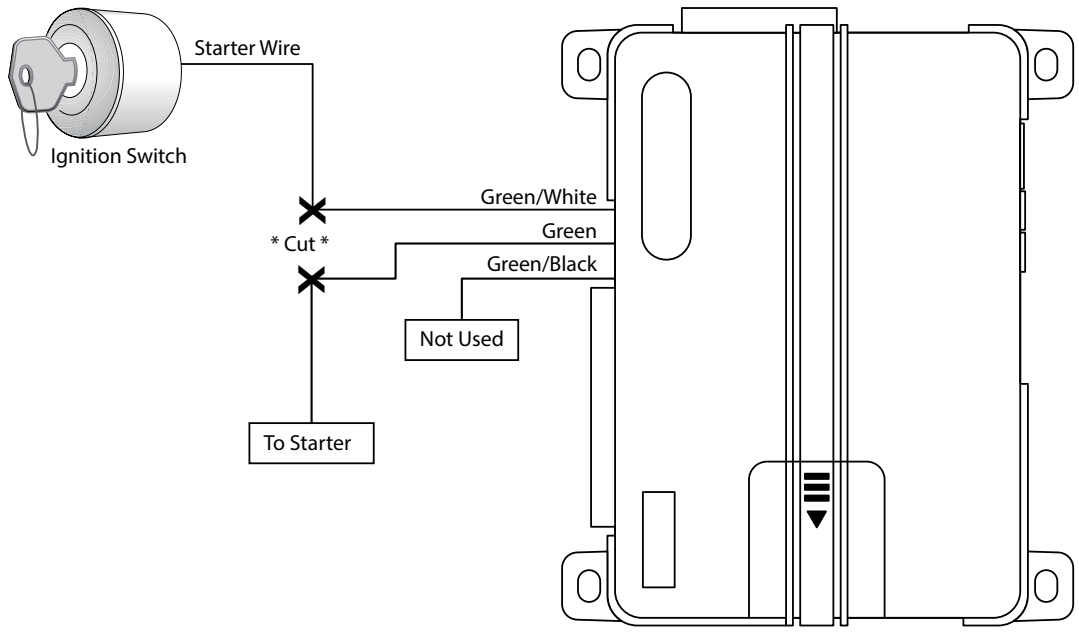
Green: STARTER DISABLE RELAY NORMALLY OPEN PIN #87
This wire will be used in the Normally Open type of starter disable setup. This wire connects to the car side of the cut starter wire in the vehicle. In the normally open setting, the vehicle cannot be started if the system does not have power

Green/Black: STARTER DISABLE RELAY NORMALLY CLOSED PIN #87a
This wire will be used in the Normally Closed type of starter disable setup. This wire connects to the car side of the cut starter wire in the vehicle. In the normally closed setting, the vehicle can be started if the system does not have power.

Normally Closed Starter Disable



Normally Open Starter Disable



Sensor MUX Harness, 3-pin connector

Red: (+) 12v TO SENSOR
This wire supplies a constant (+) 12v to an additional sensor.

Black: GWA TO SENSOR
This wire supplies a (-) to an additional sensor and doe s not activate until the system is armed, similar to the Orange Ground When Armed wire on the 12-pin harness. This wire works well for tilt sensors that require a Ground When Armed or any sensor that you want to activate only while the system is armed.

Blue/White: (-) MUX (MULTIPLEX INPUT)
This input will work with Directed single stage or dual stage sensors. Inputs shorter than 0.8 seconds will trigger the Warn Away response, while inputs longer than 0.8 seconds will trigger the full alarm sequence. If installing a Directed dual stage sensor, connect both the Warn Away and full trigger wires of the sensor to this input.

Adjusting the Doubleguard Shock Sensor

Note: When adjusting the on board Doubleguard shock sensor, the main unit must be in the final mounting location that it will be in after the install is complete. Adjusting the sensor and then relocating the main unit will require readjustment.

Note: The siren will emit 1 short and 1 long sound when maximum/minimum sensitivity is reached. At minimum sensitivity level, the impact sensor is turned OFF.

Note: After each adjustment the sensitivity can be tested by cautiously impacting the vehicle with increasing intensity. The siren will chirp to indicate the impact level required to fully trigger the alarm.

Adjustment using the optional 2-way LCD remote control:

1. With the main unit mounted in its permanent location, make sure the system is disarmed with the ignition OFF and all entry points on the vehicle are closed.
2. **Press** and **hold** the ƒ button of the remote control until a long beep is emitted and `Main Menu` is displayed. (if programmed to operate two systems, ignore the car 1 or car 2 text and beeps at 3 seconds).
3. **Release** the ƒ button to view the main menu. `Setup Remote` is displayed.
4. **Press** and **release** the button. `Sensor Adjust` is displayed.
5. **Press** and **hold** the ƒ button until a long beep is emitted and the siren emits a long chirp. The current sensitivity `Sen ##` is displayed, adjustment mode is ready.
6. Adjust the sensitivity:
   a. **Press** and **release** the AUX and buttons change the sensitivity.
   b. **Press** and **hold** the ƒ button. The adjustment is sent to the system and the remote control emits a long beep as confirmation.
   c. **Release** the button.

Exit adjustment mode:

- **Press** and **release** the ƒ button anytime to exit adjustment mode, and then **press** and **hold** to return the remote control to normal operation (transmit LED turns OFF).
- **Open** the hood or trunk
- **Turn** the ignition ON
- Wait for 30 seconds between steps
- The siren will emit one long chirp when exiting adjustment mode.

Adjustment using the optional 2-way LED or 1-way remote control:

1. Make sure the system is disarmed with the ignition OFF and all entry points on the vehicle are closed.
2. **Press** and **hold** the ƒ button of the remote control for 8 seconds until the transmit LED turns ON then **release** it (If programmed to operate two systems, ignore the transmit LED flashes at three seconds).
3. **Press** and **hold** the 🔒 button until the transmit LED flashes OFF then ON and the siren emits a long chirp. Adjustment mode is ready.
4. Adjust the sensitivity:
   - **Press** and **release** the 🔒 button to increase the sensitivity. The siren chirps two times.
   - **Press** and **release** the button to decrease the sensitivity. The siren chirps one time.
   - **Press** and **release** the button to reset sensitivity to default setting. The siren chirps three times.

Exit adjustment mode:

- **Press** and **release** the ƒ button any time to exit adjustment mode, and then **press** and **hold** to return the remote control to normal operation (transmit LED turns OFF).
- **Open** the hood or trunk
- **Turn** the ignition ON
- Wait for 30 seconds between steps
- The siren will emit one long chirp when exiting adjustment mode.

Pairing a Remote Control

Pairing a remote control is a process whereby the remote control and the system in the vehicle learn each other's encrypted identification, securing their communication from intruders. Please note the remote control(s) come already paired from the factory. These instructions can be used if reprogramming or adding a new remote control to the system. The following instructions steps you through pairing the 2-way (optional) and 1-way remote control(s).

Note: Both the remote control and the vehicle need to be setup to pair a remote to the system and the remote must be set to the desired Car1 or Car2 mode. (see *Owners Manual* for more detailss about selecting vehicles).

LCD 2-Way Remote Control:

1. **Press** and **hold** the ƒ button on the remote for 8 seconds, the remote beeps once, Main Menu is displayed on the screen. **Release** the ƒ button.
2. **Press** and **release** the AUX button or the button until Pair is displayed on the screen.
3. **Press** and **hold** the ƒ button until the remote beeps 3 times then **release** the ƒ button. The remote is now ready to pair with the system.

Vehicle Setup for Pairing:

- **Open** the vehicle door.
- **Turn** ON the vehicles ignition to the RUN position.
- Within 5 seconds **press** and **release** the Control Center button on the Control Center one time then **press** it once more and **hold** it.
- The Control Center LED begins flashing in a single flash pattern and the siren will chirp once to confirm the system is in pairing mode.
- Now **release** the Control Center Button.

4. With both the remote and system in pairing mode, **press** the 🔒 button on the remote.
5. The siren chirps to indicate the system has learned the remote ID and is sending its ID to the 2-way remote.
6. The LCD remote control will indicate a Successful or Failed pairing. If pairing fails, the remote will go back to the Pair screen, **press** the 🔒 button on the remote again to attempt another pairing. Once the remote has paired to the system Successful will display on the remote screen and it will also emit several tones to confirm.

7. Once the pairing is completed turn OFF the ignition in the vehicle, the siren will sound to confirm exiting. When both the system and remote have exited the Pairing Mode, you may now test for functionality.

To exit Pairing Mode on the remote:
- Wait 30 seconds without pressing a button on the remote.
- **Press** and **release** the button on the remote.

To exit Pairing Mode on the system:
- **Turn** OFF the ignition.
- **Close** the open door.
- Wait 60 seconds for the system to automatically exit.
- The siren will sound to confirm exiting.

LED 2-way or 1-way Remote Control:
1. **Press** and **hold** the *f* button on the remote for 8 seconds. The transmit LED on the remote will come ON solid, **release** the *f* button.
2. **Press** and **hold** the button on the remote until the transmit LED flashes 3 times then comes ON solid. The remote is now ready to pair with the system.

Vehicle Setup for Pairing:
- **Open** at least 1 vehicle door.
- **Turn** ON the vehicles ignition to the RUN position.
- Within 5 seconds **press** and **release** the Control Center button on the Control Center one time then **press** it once more and **hold** it.
- The Control Center LED will begins flashing in a single flash pattern and the siren will chirp once to confirm the system is in pairing mode. You may now **release** the Control Center Button.

3. With both the remote and system in pairing mode, **press** the button on the remote. The siren chirps to indicate the system has learned the remote ID and is sending its ID to the 2-way remote (the 2-way remote will emit several tones to indicate the remote has learned the system ID, the 1-way remote does not offer confirmations).
4. If pairing fails, **press** the button on the remote again to attempt another pairing.
5. Once the pairing is completed **turn** OFF the ignition in the vehicle, the siren will sound to confirm exiting. When both the system and remote have exited the Pairing mode, you may now test for functionality.

To exit Pairing Mode on the remote:
- Wait 30 seconds without pressing a button on the remote.
- **Press** and **release** the *f* button on the remote one time and **press** and **hold** again for 2 seconds, the transmit LED on the remote will shut OFF to confirm exiting.

To exit Pairing Mode on the system:
- **Turn** OFF the ignition.
- **Close** the open door.
- Wait 60 seconds for the system to automatically exit.
- The siren will sound to confirm exiting.

Basic Remote Functions

Level / Button	Direct Access	ƒ x 1 LEVEL 1	ƒ x 2 LEVEL 2	ƒ x 3 LEVEL 3	ƒ x 4 LEVEL 4
🔒	Arm/Lock (Panic)	Silent Mode Arm	Sensor Bypass	Sensor Silent Arm	Full Silent Arm
🔓	Disarm/Unlock	Silent Mode Disarm	Remote Valet	Car Finder	
	Remote Start*/AUX 1/4**				
AUX	AUX/Trunk Release	AUX 1	AUX 2	AUX 3	AUX 4
ƒ	Advance Level Change Car (Hold 3s), Enter programming (Hold 8s)		Arm Status (2-way only)		

* Available only with optional Remote Start module installation

** This button can command either AUX 1 or AUX 4 if turned ON by an authorized Directed dealer.

Note: See owner's guide of your specific model for exact functionality as some functions may differ to those shown above.

Important: If the Control Center has been replaced, all remote controls must be re-paired with the system.

VRS (Vehicle Recovery System)

When VRS is enabled and the vehicle is stolen or carjacked, VRS sounds the siren and flashes the parking lights to persuade the thief to abandon the vehicle, and when the ignition is turned off, activates the starter disable to prevent the engine from restarting.

To arm VRS:

- Perform the silent mode arm command while driving, or while the ignition is turned ON. The siren chirps and parking lights flash once to confirm arming. The arm LED and beeps play to confirm arming.

Note: If Valet mode is ON, the LED and fault tone plays, exit Valet mode before arming VRS.

- Once armed, VRS triggers if any door is opened then closed while the ignition is ON, and if the vehicle is parked while armed, VRS triggers when driving resumes. See trigger description below.
- When triggered, the Control Center LED begins flashing after fifteen seconds. Within 45 seconds perform the silent mode arm command to disarm VRS.

Note: If not disarmed, the siren begins chirping for 60 seconds and then becomes a constant siren blast with flashing parking lights for several minutes. This output will continue and be repeated each time the ignition is turned ON until VRS is disarmed.

To disarm VRS:

- Perform the silent mode disarm command on the remote anytime before VRS has been triggered, or within one minute after it has triggered and before the siren begins to chirp.

Note: If not disarmed before the siren begins to chirp, the emergency override procedure must be used to disarm VRS. (see owners guide for override procedure).

Programming System Features

The System Features Learn Routine dictates how the unit operates. It is possible to access and change most of the feature settings using the Control Center button.

Programming a System Feature:
1. **Open** a door.
2. **Turn** the ignition ON, then OFF.
3. Select a Menu. **Press** and **hold** the Control Center button. The number of siren chirps indicates the Menu number. 1 chirp indicates Menu 1, 2 chirps for Menu 2.
4. When the desired Menu chirps are heard, **release** the Control Center button.
5. Select a Feature. **Press** and **release** the Control Center button the number of times corresponding to the feature desired to change. Then **press** and **hold** one more time to select the feature. **Do not release** the Control Center button.
6. Program the Feature. While holding the Control Center button, program the feature using the remote control.

For features with only two options; 🔒 = option 1, while 🔓 = option 2.
For features with more than two options; 🔒 selects the options in ascending order, while 🔓 selects them in descending order.
Note: Pressing button resets the feature to the factory default.

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 Control Center button the number of times necessary to advance from the feature just programmed to the next one desired to program.
2. Then **press** the Control Center button once more and **hold** it.

To select another Menu:
1. **Press** and **hold** the Control Center button.
2. After 3 seconds, the unit advances to the next Menu, the siren chirps, indicating which menu has been accessed.

The learn routine exits if any of the following occurs:
- The open door is closed.
- The ignition is turned ON.
- There is no activity for 30 seconds.
- The Control Center button is pressed too many times.

Feature Menus

Default settings are **Opt. 1.**

Menu 1 - Vehicle Integration

Item	Feature	**Opt. 1**	Opt. 2	Opt. 3	Opt.4	Opt. 5+
1	System Arming Mode	**Active**	Passive Arm – no lock	Passive Arm & lock	Auto Re-arm - no lock	Auto Re-arm & Lock
2	Panic Mode*	**ON**	Ignition OFF Only	OFF		
3	Confirmation Chirps	**ON - Warn Away chirps ON**	ON - Warn Away chirps OFF	OFF - Warn Away chirps ON	OFF - Warn Away chirps OFF	
4	Siren Duration (seconds)	**30 sec.**	60 sec.			
5	Ign-controlled Locks	**No Ign-locking**	Lock & Unlock	Lock Only	Unlock Only	
6	Door Lock Pulses	**Single**	Double Unlock Only	Double Lock Only	Double Lock & Unlock	
7	Door Lock Output Duration (seconds)	**0.8 sec.**	3.5 sec.	0.4 sec.		
8	Ignition-controlled 2nd Unlock**	**Delayed 2nd unlock ON/Ign-control after first unlock**	Immediate 2nd unlock ON/Ign-control after first unlock			
9	Comfort Closure*	**No Comfort Closure**	Comfort Closure 1	Comfort Closure 2		
10	Horn Function (milliseconds)	**Full Alarm Only**	Siren Function 20 ms	Siren Function 30 ms	Siren Function 40 ms	Siren Function 50 ms
11	Hood Switch type	**Normally Open**	Normally closed			
12	Trunk Switch Type	**Normally Open**	Normally Closed			
13	Door Switch Type	**Normally Open**	Normally Closed			
14	Starter Disable Type	**Normally Closed**	Normally Open			
15	Sensor Trigger	**Single Sensor**	Double sensor			
16	Nuisance Prevention	**ON**	OFF			
17	Flex Relay	**Domelight**	Horn	Trunk release		
18	VRS	**OFF**	ON - Disarm chirps OFF	ON - Disarm chirps ON		
19	Remote Button unlock (Ign OFF)*	**ON**	OFF			

* Not available with the 1-way remote control.

** Requires an AUX channel Output Type to be programmed as a 2nd Unlock output (see *Menu 2*).

1. System Arming mode:
    1. Active: the transmitter must be used to arm the system.
    2. Passive Arm w/o lock: after exiting the vehicle the system will automatically arm. The doors will not lock.
    3. Passive Arm w/lock: after exiting the vehicle the system will automatically arm and lock the doors.
    4. Auto re-arm w/o lock: if the vehicle is not entered after receiving a disarm command, the system will automatically re-arm. The doors will not lock.
    5. Auto re-arm w/lock: if the vehicle is not entered after receiving a disarm command, the system will automatically re-arm and lock the doors.

2. Panic Mode:
   1. ON: the Panic output can be activated at any time.
   2. Ign. OFF Only: the Panic output can be activated only when the ignition is OFF.
   3. OFF: the Panic output is defeated.

3. Confirmation Chirps:
   1. ON w/Warn Chirps ON: arm, disarm, and sensor Warn Away chirps are active.
   2. ON w/Warn Chirps OFF: arm and disarm chirps are active, Warn Away chirps are defeated.
   3. OFF w/Warn Chirps ON: arm and disarm chirps are defeated, Warn Away chirps are active.
   4. OFF w/Warn Chirps OFF: arm, disarm, and sensor Warn Away chirps are defeated.

4. Siren Duration:
   1. 30sec: the siren output duration for full trigger activations and Panic mode is 30 seconds.
   2. 60sec: the siren output duration for full trigger activations and Panic mode is 60 seconds.

5. Ign-controlled Locks:
   1. No Ign-locking: the door lock/unlock outputs will not activate when ignition is turned ON & OFF.
   2. Lock & Unlock: the door lock & unlock output will activate when ignition is turned ON & OFF.
   3. Lock Only: the door lock output will activate when ignition is turned ON.
   4. Unlock Only: the door unlock output will activate when ignition is turned OFF.

6. Door Lock Pulses:
   1. Single: the door lock & unlock outputs will pulse once.
   2. Double Unlock only: the unlock output only will pulse twice.
   3. Double Lock Only: the lock output only will pulse twice.
   4. Double Lock & Unlock: the lock & unlock outputs will pulse twice.

7. Door Lock Output Duration:
   1. 0.8 sec.: the door lock output pulses will be 800 milliseconds in duration.
   2. 3.5 sec.: the door lock pulses will be 3.5 seconds in duration.
   3. 0.4 sec.: the door lock pulses will be 400 milliseconds in duration.

8. Ignition Controlled 2nd Unlock:
   1. Delayed: for Ign-controlled unlocking, the 2nd Unlock will activate 800 milliseconds after the first (driver door) unlock.
   2. Immediate: for Ign-controlled unlocking, the 2nd Unlock will activate at the same time as the first (driver door) unlock.

9. Comfort Closure:
   1. No comfort Closure: Comfort Closure is defeated when arming.
   2. Comfort Closure 1: When arming, the door lock pulse (or 2nd pulse for double pulses) will remain ON for 20 seconds.
   3. Comfort Closure 2: When arming, 800 milliseconds following the end of the door lock pulse (or 2nd pulse for double pulses); the door lock output will turn ON again for 20 seconds.

10. Horn Function:
   1. Full Alarm Only: the horn output will pulse only during full trigger events.
   2. Siren Function 20/30/40/50 milliseconds: The horn output will emulate the siren output with selectable output timing to compensate for OEM horn inefficiency.

11. Hood Switch Type:
    1. Normally Open: for vehicles with a hood switch that rests at power or ground when the hood is OPEN.
    2. Normally Closed: for vehicles with a hood switch that rests at power or ground when the hood is CLOSED.

12. Trunk Switch Type:
    1. Normally Open: for vehicles with a trunk switch that rests at power or ground when the trunk is OPEN.
    2. Normally Closed: for vehicles with a trunk switch that rests at power or ground when the trunk is CLOSED.

13. Door Switch Type:
    1. Normally Open: for vehicles with door switches that rest at power or ground when the door is OPEN.
    2. Normally Closed: for vehicles with door switches that rest at power or ground when the door is CLOSED.

14. Immobilizer Type:
    1. Normally Open: the starter disable relay will rest OPEN when main power is disconnected.
    2. Normally Closed: the starter disable relay rests CLOSED when main power is disconnected.

15. Sensor Full Trigger:
    1. Single: full trigger activation of only one sensor is required to fully trigger the alarm.
    2. Double: full trigger activation of two sensors within a ten second period is required to fully trigger the alarm.

16. NPC (Nuisance Prevention):
    1. ON: sensors that trigger excessively will be defeated until they have been stable for more than one hour.
    2. OFF: sensors will not be defeated if triggered excessively.

17. Flex Relay:
    1. Dome: the 12-pin Black/White wire will operate as Dome Light Supervision.
    2. Horn: the 12-pin Black/White wire will operate as Horn Honk Output; the 7-pin Brown wire will operate as Dome Light Supervision.
    3. Trunk: the 12-pin Black/White wire will operate as Trunk Release Output; the 12-pin Red/White wire will operate as Dome Light Supervision.

18. VRS (Vehicle Recovery System):
    1. OFF: The Vehicle Recovery System is disabled.
    2. ON – Disarm chirps OFF: The Vehicle Recovery System is enabled and, when disarmed by Remote Control, will not chirp the siren.
    3. ON – Disarm chirps ON: The Vehicle Recovery System is enabled and, when disarmed by Remote Control, will chirp the siren 3 times to confirm.

19. Remote Button Unlock (Ign. OFF):
    1. ON: a message telling the 2-way remote control to unlock the keypad is sent each time the vehicle ignition is turned OFF.
    2. OFF: no message is sent.

    Note: This feature works in conjunction with the keypad lock feature of the remote control.

Menu 2 - Convenience

Item	Feature	**Opt. 1**	Opt. 2	Opt. 3	Opt.4	Opt. 5+
1	One-time Bypass	**One-time bypass OFF**	One-time bypass ON			
2	Override Pulse count	**1**	2	3	4	5
3	Door Trigger Error Chirp	**ON**	OFF			
4	Ign-controlled Dome light	**ON**	OFF			
5	OEM Alarm Disarm w/AUX-Trunk	**ON**	OFF			
6	OEM Alarm Disarm Output	**With Unlock**	Before Unlock			
7	OEM Alarm Disarm Pulses	**1**	2			
8	AUX/Trunk Output type	**Validity**	OFF	OEM Alarm Arm	2nd unlock	
9	AUX/Trunk Linking	**No Linking**	Link to Arm	Link to Disarm	Link to Arm/ Disarm	
10	AUX 1 Output type	**Validity**	Latch	Latch/reset/ ign	Timed	OFF (5) OEM Alarm Arm (6), 2nd Unlock (7), Remote Start Report* (8)
11	AUX 1 Linking	**No Linking**	Link to Arm	Link to Disarm	Link to Arm/ disarm	
12	AUX 2 Output Type	**Validity**	Latch	Latch reset/ ign	Timed	OFF (5) OEM Alarm Arm (6), 2nd Unlock (7), N/O Door Switch (8), N/C Door Switch (9)
13	AUX 2 Linking	**No Linking**	Link to Arm	Link to Disarm	Link to Arm/ Disarm	
14	AUX 3 Output Type	**Validity**	Latch	Latch reset/ ign	Timed	OFF (5) OEM Alarm Arm (6), 2nd Unlock (7), N/O Door Switch (8), N/C Door Switch (9)
15	AUX 3 Linking	**No Linking**	Link to Arm	Link to Disarm	Link to Arm/ Disarm	
16	AUX 4 Output Type	**Validity**	Latch	Latch reset/ ign	Timed	OFF (5) OEM Alarm Arm (6), 2nd Unlock (7), N/O Door Switch (8), N/C Door Switch (9) Remote Start Report* (10)
17	AUX 4 Linking	**No linking**	Link to Arm	Link to Disarm	Link to Arm/ Disarm	
18	Remote Start Button Control	**None****	AUX 1	AUX 4		

* The "Remote Start" button on the remote will activate AUX 1 or AUX 4 (see *Menu Item 18*).

**When programming with the Bitwriter, this option is labeled "Normal".

1. One-time Bypass:
   1. OFF: One-Time Bypass is not available.
   2. ON: the One-Time Bypass feature will defeat Passive Arming once and, if Armed by remote control, will defeat Comfort Closure and AUX outputs linked to Arming.

2. Override Pulse Count:
   - 1-5: sets the number of presses (1-5) on the Control Center Button required to override the alarm system if a remote is damaged or not available.

3. Door Trigger Error Chirp:
   1. ON: if the door trigger is active when arming, the siren will emit a second chirp and a message will be sent to the 2-way remote control as an alert if equipped.
   2. OFF: an active door trigger when arming will not create an alert output.

4. Ign-controlled Dome light:
   1. ON: the dome light supervision output will activate when the ignition is turned OFF.
   2. OFF: the dome light supervision output will not activate when the ignition is turned OFF.

5. OEM Alarm Disarm w/AUX/Trunk (Lt. Green/Black, 7-pin harness):
   1. ON: the OEM Alarm Disarm wire will pulse as programmed when the AUX/Trunk output is activated.
   2. OFF: the OEM Alarm Disarm wire will not pulse when the AUX/Trunk output is activated.

6. OEM Alarm Disarm Output (Lt. Green/Black, 7-pin harness):
   1. With Unlock: the OEM Alarm Disarm wire will pulse as programmed at the same time as the unlock (Blue) wire.
   2. Before Unlock: the OEM Alarm Disarm wire will pulse as programmed before the unlock wire.

7. OEM Alarm Disarm Pulses (Lt. Green/Black, 7-pin harness):
   1. The OEM Alarm Disarm wire will pulse once per operation.
   2. The OEM Alarm Disarm wire will pulse twice per operation.

8. AUX/Trunk Output Type:
   - Refer to AUX 1 Output Type descriptions.

9. AUX/Trunk Linking:
   - Refer to AUX 1 Linking descriptions.

10. AUX 1 Output Type:
   1. Validity: when the AUX command is received the output will turn ON and remain ON until the command ceases.
   2. Latch: when the AUX command is received the output will turn ON and remain ON until the command is received again.
   3. Latch/Reset/Ignition: when the AUX command is received the output will turn ON and remain ON until the command is received again or the ignition is turned ON/OFF.
   4. Timed: when the AUX command is received the output will turn ON for the programmed time duration (default 30sec.).
   5. OFF: the output will not activate for a remote control command, use this option when the AUX command controls an external device such as a garage door module.
   6. OEM Alarm Arm: the output will not activate for a remote control command, it will pulse when the system arms to activate the OEM alarm system.
   7. 2nd Unlock: the output will operate as 2nd Unlock and will only activate when pressing the unlock button on the remote within ten seconds of disarming the system with the remote.
   8. Remote Start Report: the output will pulse once to activate an add-on remote start module and the 12 pin trunk input wire will be monitored for a ground input to confirm remote start activation (2-way remote only) or to shunt connected sensors. The "Remote Start" button on the remote will activate AUX 1 or AUX 4 (see *Menu Item 18*)

11. AUX 1 Linking:
   1. No Linking: the AUX output will not activate for a remote control command.
   2. Link to Arm: the AUX output will activate for the Arm command.
   3. Link to Disarm: the AUX output will activate for the Disarm command.
   4. Link to Arm/Disarm: the AUX output will activate for the Arm & Disarm commands.

12. AUX 2 Output Type:
    1. Validity: refer to AUX 1 output type description.
    2. Latch: refer to AUX 1 output type description.
    3. Latch/reset/Ignition: refer to AUX 1 output type description.
    4. Timed: refer to AUX 1 output type description.
    5. OFF: refer to AUX 1 output type description.
    6. OEM alarm arm: refer to AUX 1 output type description.
    7. 2nd unlock: refer to AUX 1 output type description.
    8. N/O door switch: for vehicles with multiple door switches that rest at power or ground when the door is OPEN.
    9. N/C door switch: for vehicles with multiple door switches that rest at power or ground when the door is CLOSED.

13. AUX 2 Linking:
    - Refer to AUX 1 Linking description.

14. AUX 3 Output Type:
    1. Validity: refer to AUX 1 output type description.
    2. Latch: refer to AUX 1 output type description.
    3. Latch/reset/Ignition: refer to AUX 1 output type description.
    4. Timed: refer to AUX 1 output type description.
    5. OFF: refer to AUX 1 output type description.
    6. OEM alarm arm: refer to AUX 1 output type description.
    7. 2nd unlock: refer to AUX 1 output type description.
    8. N/O door switch: refer to AUX 2 output type description.
    9. N/C door switch: refer to AUX 2 output type description.

15. AUX 3 Linking:
    - Refer to AUX 1 Linking description.

16. AUX 4 Output Type:
    1. Validity: refer to AUX 1 output type description.
    2. Latch: refer to AUX 1 output type description.
    3. Latch/reset/Ignition: refer to AUX 1 output type description.
    4. Timed: refer to AUX 1 output type description.
    5. OFF: refer to AUX 1 output type description.
    6. OEM alarm arm: refer to AUX 1 output type description.
    7. 2nd unlock: refer to AUX 1 output type description.
    8. N/O door switch: refer to AUX 2 output type description.
    9. N/C door switch: refer to AUX 2 output type description.
    10. Remote start report: refer to AUX 1 output type description.

17. AUX 4 Linking:
    - Refer to AUX 1 Linking description.

18. Remote start button control:
    1. None: The button has no function.
    2. AUX 1: The button will command AUX 1.
    3. AUX 4: The button will command AUX 4.

Bitwriter - Only Options

If programming with the Bitwriter or XKLoader 3, the Learn Routine can be locked or unlocked. If the Learn Routine has previously been locked, it must be unlocked with Bitwriter - this cannot be done manually with the Control Center button.

The Bitwriter  or XKLoader 3 gives you access to a wider range of system options. These features and the adjustments that may be programmed are described in the table below.

Item	Feature	**Default**	Opt. 2	Opt. 3	Opt.4	Opt. 5+
1	Siren Duration (seconds)	**30 sec.**	Options: 1 to 180 sec.			
2	Shock Sensor Level	**7**	Options: 0 to 15 in increments of 1			
3	Zone 4 Sensor Icon Type*	**None**	Shock Sensor	Field Disturbance	Tilt Sensor	Glass Break/ Ultrasonic/Sensor
4	Zone 7 Sensor Icon Type*	**None**	Shock Sensor	Field Disturbance	Tilt Sensor	Glass Break Ultrasonic/Sensor
5	AUX/Trunk Remote Icon type*	**Trunk**	Windows	Sunroof	Audio	Lights/Left dr./ Right dr./ Rear Hatch
6	AUX 1 Timed Output (seconds)	**30 sec.**	Options: 1 to 90 sec.			
7	AUX 1 Remote Icon type*	**Pulsed**	Trunk	Window	Sunroof	Audio/Lights/ Left dr./Right dr./ Rear Hatch/ Timed/ Latched
8	AUX 2 Timed Output (seconds)	**30 sec.**	Options: 1 to 90 sec.			
9	Remote AUX 2 Icon type*	**Pulsed**	Trunk	Window	Sunroof	Audio/Lights/ Left dr./Right dr./ Rear Hatch/ Timed/ Latched
10	AUX 3 Timed Output (seconds)	**30 sec.**	Options: 1 to 90 sec.			
11	Remote AUX 3 Icon type*	**Pulsed**	Trunk	Window	Sunroof	Audio/Lights/ Left dr./Right dr./ Rear Hatch/ Timed/ Latched
12	AUX 4 Timed Output (seconds)	**30 sec.**	Options: 1 to 90 sec.			
13	Transmitter Programming	**Unlocked**	Locked			
14	Feature Programming	**Unlocked**	Locked			

* Feature only available for the LCD 2-way remote control with display screens.

Note: The Bitwriter is a hand held Feature Programming tool that can be used to fine tune and access certain features that are not accessible with manual programming. The Bitwriter plugs into black 3-pin plug on the system. The black 3-pin port will also be utilized by the optional Smartstart module when applicable.

1. Siren Duration: sets the Full Trigger output duration in 1 second intervals up to 180 seconds.
2. Sensor 1 level: directly sets the sensor level of the onboard shock sensor
3. Zone 4 Sensor Icon Type: sets the Zone 4 (Sensor 2) name to be displayed in the Text Field for Warn Away and Full Trigger activations
4. Zone 7 Sensor Icon Type: sets the Zone 7 (Sensor 3) name to be displayed in the Text Field for Warn Away and Full Trigger activations
5. AUX/Trunk Icon Type: sets the name to be displayed in the text field when the AUX/Trunk output is activated/de-activated
6. AUX 1 Timed Output: sets the output duration in 1 second intervals up to 90 seconds for AUX 1
7. AUX 1 Icon Type: sets the Accessory name to be displayed in the text field when the AUX 1 output is activated/de-activated
8. AUX 2 Timed Output: sets the AUX 2 "Timed" output in 1 second intervals up to 90 seconds
9. AUX 2 Icon Type: sets the Accessory name to be displayed in the text field when the AUX 2 output is activated/de-activated
10. AUX 3 Timed Output: sets the AUX 3 "Timed" output in 1 second intervals up to 90 seconds
11. AUX 3 Icon Type: sets the Accessory name to be displayed in the text field when the AUX 3 output is activated/de-activated
12. AUX 4 Timed Output: sets the AUX 4 "Timed" output in 1 second intervals up to 90 seconds
13. Feature Programming: locks and unlocks the user's ability to enter the feature menus and manually change the main unit programming using the Control Center
14. Transmitter Programming: locks and unlocks the user's ability to enter the remote control/Reset menu and manually change any functions using the Control Center

Reset and Deletion

If a feature needs to be reset or the remote controls need to be deleted, use the following procedure:

1. **Open** a door.
2. **Turn** the ignition to the ON position.
3. Within 10 seconds, **press** and **release** the Control Center button 2 times if you want to delete remote controls or 3 times to reset features. These function steps are described next.

    - Delete remote controls: This feature erases all remote controls from the memory of the security system. This is useful in cases when a customer's remote is lost or stolen.

    Note: This does not reset the programmed features of the security system.

    - Reset Features: This resets all features of the security system to the factory default settings.

    Note: This feature does not delete the remote controls from the security system.

4. Once you have selected the function step, **press** the Control Center button once more and **hold** it. The LED flashes and the siren chirps to confirm the selected functional step. **Do not release** the Control Center button
5. While holding the Control Center button, **press** the 🔒 button on a programmed remote control. The siren chirps to confirm that the remote controls have successfully been deleted or the features have been reset.
6. Once the feature is reset, the Control Center button can be released.

Long Term Event History

The system stores the last six full triggers in memory. These are not erasable. To access long term event history:
1. With the ignition OFF, **press** and **hold** the Control Center button.
2. **Turn** the ignition ON.
3. **Release** the Control Center button.
4. Within 5 seconds, **press** and **release** the Control Center button. The status LED flashes in groups indicating the last six zones that triggered the unit for 1 minute or until the ignition is turned OFF (indicated in the order of most recent first to oldest last). Refer to Table of Zones for trigger information.

Note: The Warn Away triggers are not stored to memory and is not reported.

Table of Zones

A zone is represented by the number of status LED flashes used by the system to identify a particular type of input.

Zone	Description	Input Description
1	Trunk Pin	12-pin Blue wire
2	Instant trigger: a heavier impact detected by the onboard shock sensor	Onboard shock sensor.
3	Door switch trigger	12-pin Green or Violet wire
4	Instant trigger: For optional sensors	3-pin optional GWA MUX port
5	Ignition trigger	7-pin Yellow wire
6	Hood Pin	7-pin Gray wire
7	Instant trigger: For optional sensors	4-pin optional MUX port

Troubleshooting: Alarm

Shock sensor doesn't trigger the alarm:
1. Was the onboard shock sensor adjusted before the brain was mounted? If so re-adjust the sensor.
2. Has the onboard shock sensor been turned OFF? The sensor has the ability to be turned OFF when adjusting.
3. Has the NPC system been triggered? If so, you hear 5 chirps when disarming. To check this, turn the ignition key ON and OFF to clear the NPC memory, and then retest the shock sensor. For a detailsed description of NPC, see *Nuisance Prevention Circuitry* section of the owners guide.

Door input does not immediately trigger full alarm. Instead, chirps are heard for the first 3 seconds:
- That's how the progressive two-stage door input works! This is a feature of this system even if the door is instantly closed again, the progression from chirps to constant siren continues.

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 does not passively arm until it is remotely armed and then disarmed:
1. Is passive arming programmed ON?
2. Are the door inputs connected? Is the 12-pin Blue wire connected to the door trigger wire in the vehicle? Either the 12-pin Green wire or Violet wire should be used instead.

Door input does not respond with the progressive trigger, but with immediate full alarm:
- Does the Status LED indicate that the trigger was caused by the shock sensor? (see *Table of Zones* section of this guide.) The shock sensor, if set to extreme sensitivity, may be detecting the door unlatching before the door switch sends its signal. Reducing the sensitivity can solve this problem.

Appendix - Door Lock System Types

Identifying the Door Lock System:
There are eight major types of door lock circuits not including door lock systems that are centrally controlled through the vehicles data bus system.

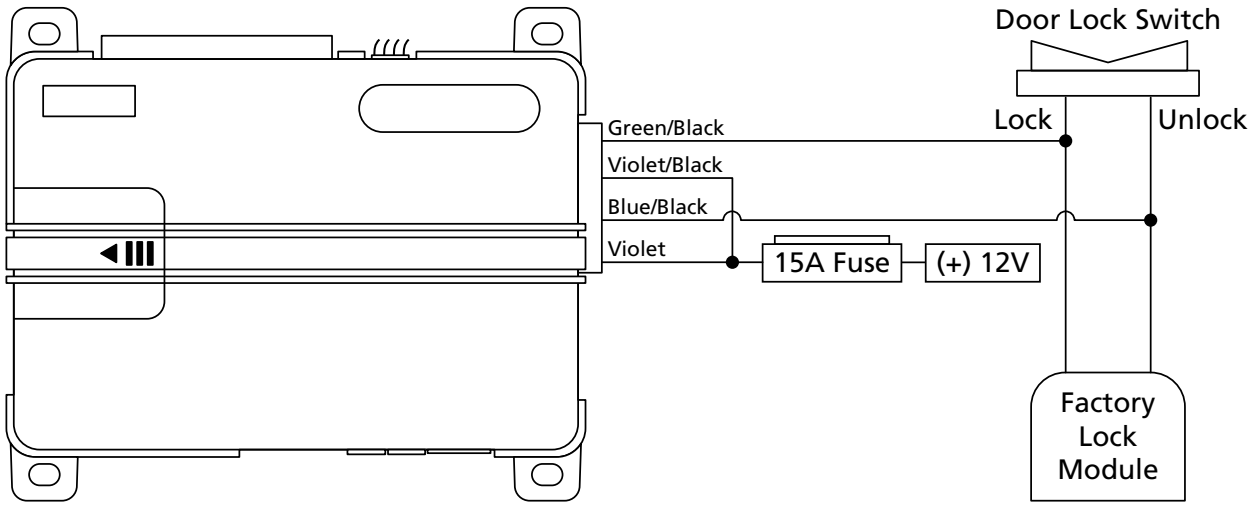
Note: In most data bus systems door locks can be controlled with a Directed interface module.

- Type A: Three wire (+) 12V pulse controlling factory relays/module.
- Type B: Three wire (-) ground pulse controlling factory relays/module.
- Type C: Directly wired to the switch (5-wire reversing polarity switches) with no external relays/ modules.
- Type D: Aftermarket actuator driven systems. These include central locking systems that don't have an actuator in the drivers' door but has actuators in the remaining doors of the vehicle.
- Type E: One wire electronically activated vacuum system (typically found in older Mercedes Benz vehicles). This typically requires the door lock pulse output duration to be changed on the system.
- Type F: One wire door lock system that requires the wire to become an open circuit (break the wire) to lock the vehicle doors and requires a (-) pulse to unlock the vehicle doors.
- Type G: (+) one wire multiplex door locks. The vehicle requires a (+) 12V pulse through resistors to control the locks in the vehicle.
- Type H: (-) one wire multiplex door locks. The vehicle requires a (-) ground pulse through resistors to control the locks in the vehicle.

The following diagrams will show how to connect this system to the different types of door lock types.

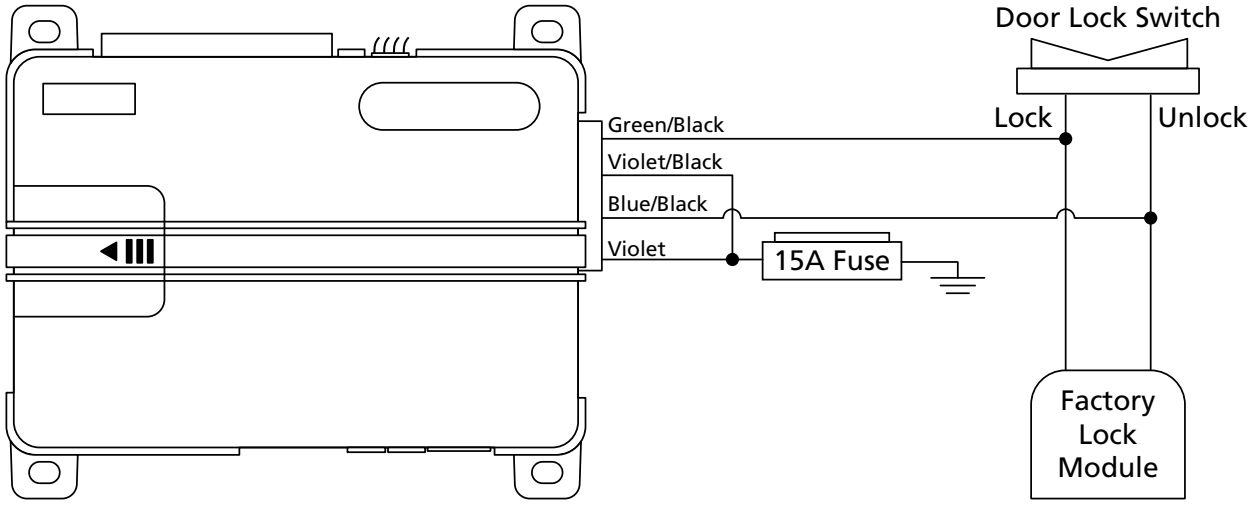
Type A: (+) 12v controlling factory relays/modules:
With this type of circuit the door lock wires will test (+) 12v respectively when pressing Lock or Unlock from the switch.

Type A (+) Polarity



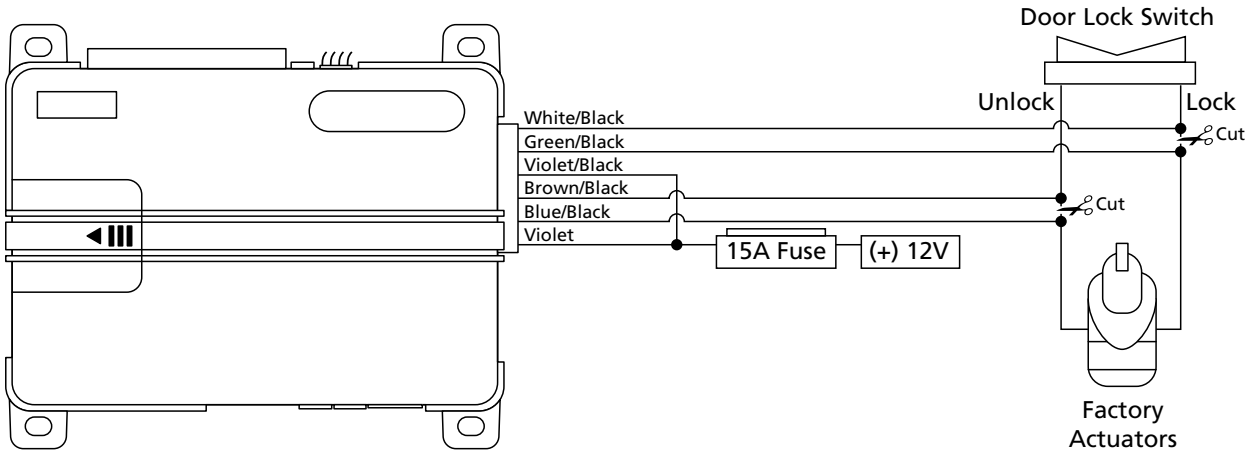
Type B: (-) ground controlling factory relays/modules
With this type of circuit the door lock wires will test (-) ground respectively when pressing Lock or Unlock from the switch or for factory alarm arm/lock and disarm/unlock, you will test the wires while turning the key in the driver door key cylinder.
Note: For factory alarm disarm/unlock the system may need to be programmed to have a double pulse output when unlocking (see *Door Lock Pulses* in Feature Programming).

Type B (-) Polarity



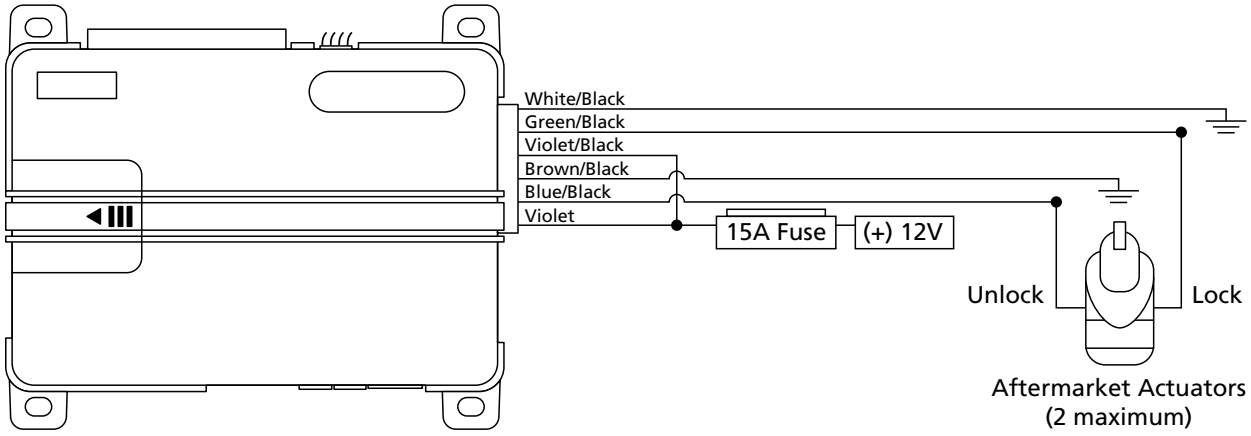
Type C: Direct wired reversing polarity
With this type of circuit, there are typically 4 or 5 heavy gauges wires that go to the switch. One wire feeds (+) 12v to the switch, the other feeds a (-) ground to the switch while the remaining wires will go directly out to the actuators. The actuator wires will rest at ground, therefore you must ensure that the White/Black and Brown/Black wires are connected to the switch side of the cut wire, if this is not done you will send (+) 12v to ground possibly damaging the module or the switch.

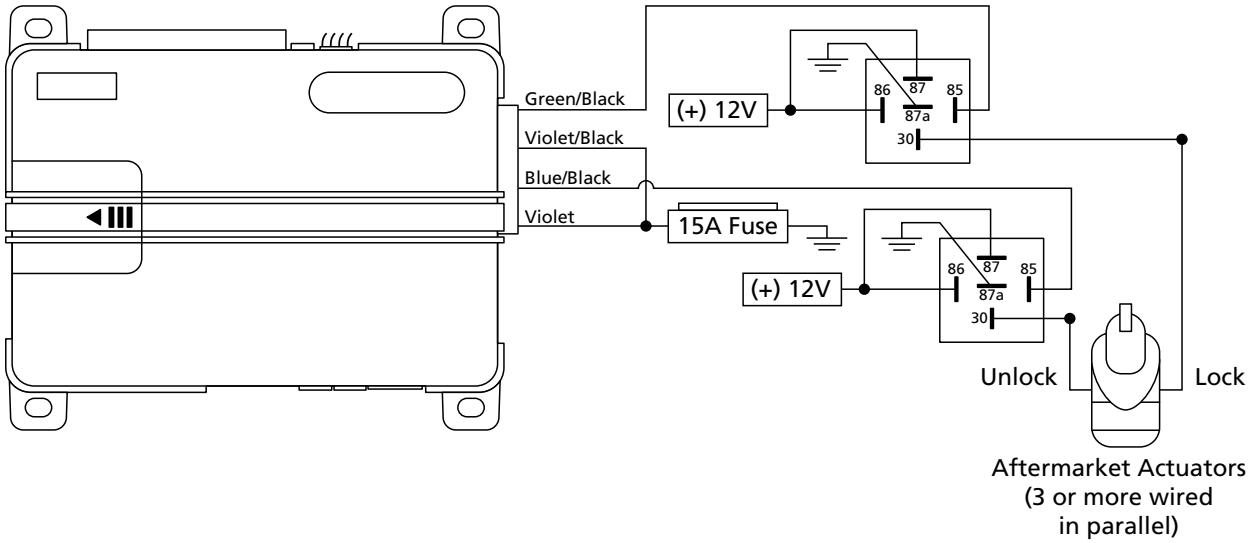
Type C Doorlocks
Reverse Polarity or 5-wire



Type D: Aftermarket actuator driven systems
With this setup you are either adding actuators to a vehicle without a keyless entry or power door lock option or you may have a Type D Vehicle with a central locking system (all doors are controlled when manually locking the driver front door) this will only require the installation of one actuator in the driver door.
Note: If installing more than two actuators it is recommended to use external relays to support the current demands of three or more actuators.

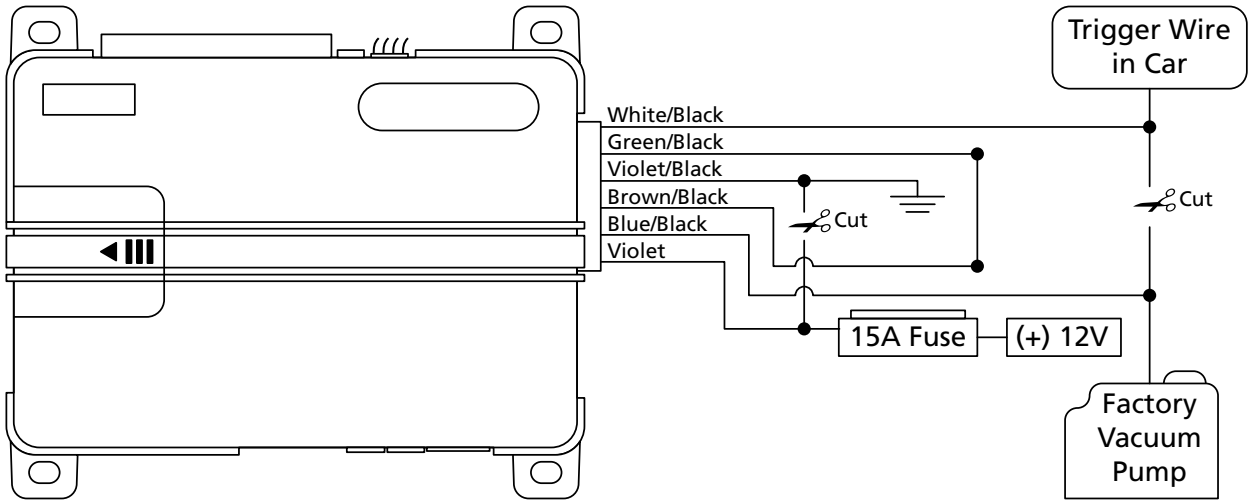
Type D Doorlocks
Adding Aftermarket Actuators





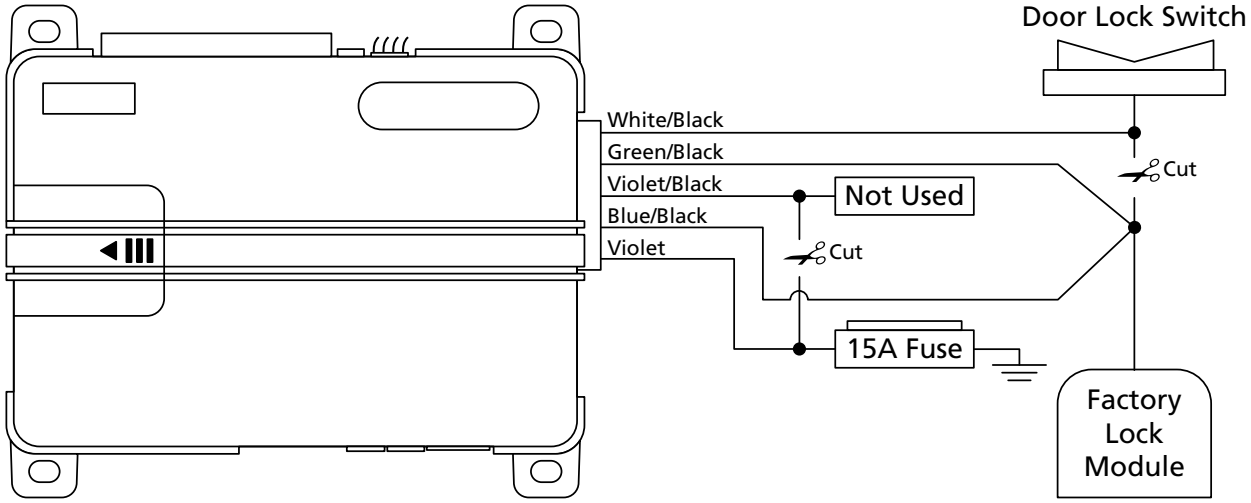
Type E: One wire wlectronically activated vacuum system
In most cases the door lock output duration will need to be extended to a 3.5 second pulse (see *Door Lock Output* Duration in Feature Programming). This wire will test (-) ground when the doors are locked and (+) 12v when the doors are unlocked.
Note: The Violet jumper wire at the fuse holder between the Pin 1-Violet wire and the Pin 4-Violet/Black wire of the door lock harness must be cut!

Type E
Vacuum Activated



Type F: One wire door lock system
This type of system requires an open circuit to lock the doors and a (-) pulse to unlock the doors. The wire will test as an open circuit when locking the vehicle doors and will test as a (-) ground when unlocking the vehicle doors (these can be reversed in some vehicles).
Note: The Violet jumper wire at the fuse holder between the Pin 1-Violet wire and the Pin-4 Violet/Black wire of the door lock harness must be cut!

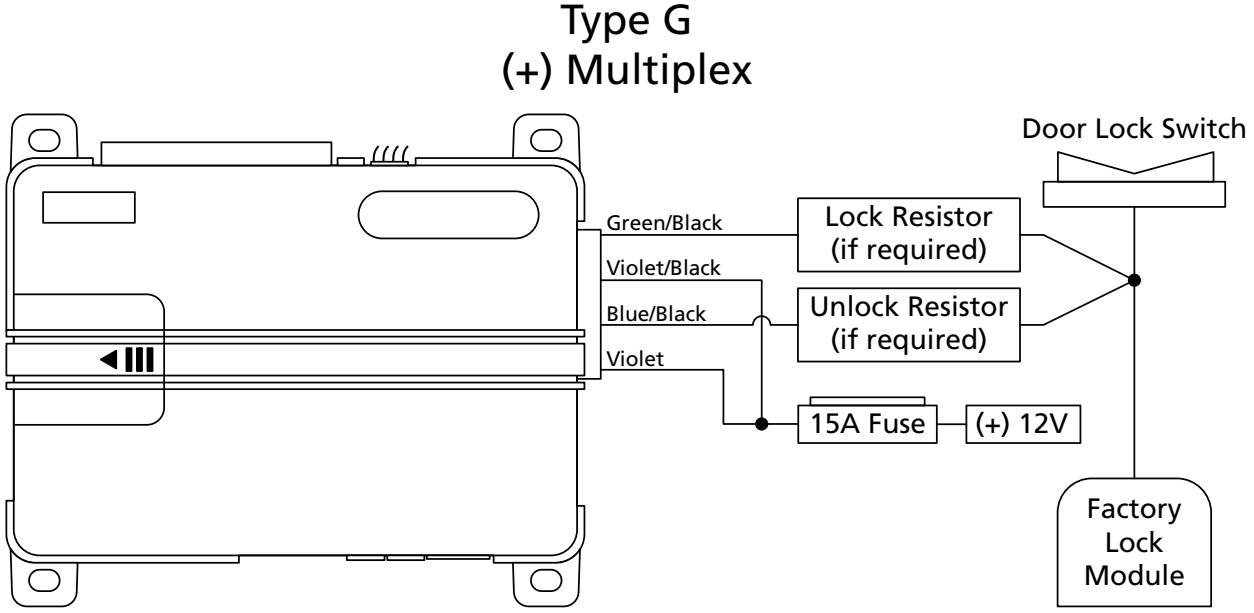
Type F
One Wire



Type G: (+) 12v one wire multiplexed systems
This type of system handles the door lock control on one wire utilizing different (+) 12v voltages to handle the lock and unlock function or factory alarm arm/lock and factory disarm/unlock function in the vehicle. The door lock switch, driver door key cylinder or BCM may contain one or two resisters to achieve the required voltage to control the vehicle door lock system.

Single resistor type:
If one resistor is used in the door lock switch/key cylinder, the wire will show (+) 12v in one direction and less than (+) 12v when operated in the opposite direction.

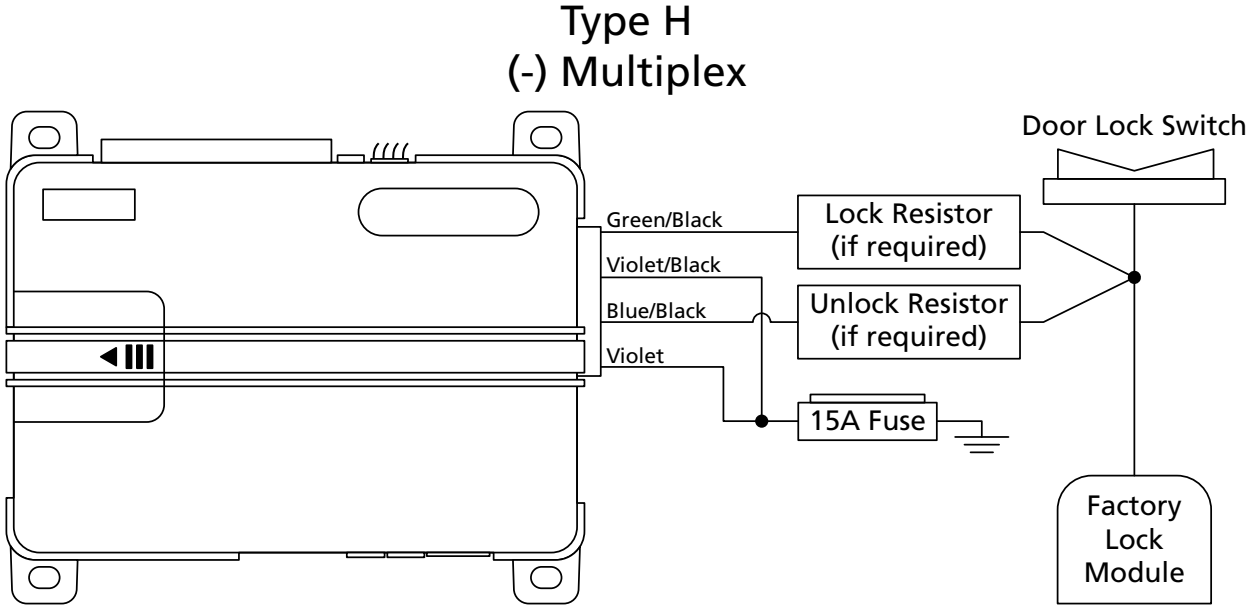
Dual resistor type:
If two resistors are used in the door lock switch/key cylinder, the wire will show less than (+) 12v in either direction.



Type H: (-) Ground one wire multiplexed systems
This type of system handles the door lock control on one wire utilizing different (-) ground voltages to handle the lock and unlock function or factory alarm arm/lock and factory disarm/unlock function in the vehicle. The door lock switch, driver door key cylinder or BCM may contain one or two resisters to achieve the required voltage to control the vehicle door lock system.

Single resistor type:
If one resistor is used in the door lock switch/key cylinder, the wire will show (-) ground in one direction and resistance to ground when operated in the opposite direction.

Dual resistor type:
If two resistors are used in the door lock switch/key cylinder, the wire will show resistance to ground when operated in either direction.



Determining the Proper Resistance Values:
Most vehicle information documents will offer the resistance values required to operate the factory door locks in the vehicle, however there are times when the information is not available or a different resistance value is required. To determine the resistance values that are required to control the lock/arm and unlock/disarm functions in the vehicle you will need to use a digital multimeter. Set for measuring resistance (ohms)

1. Locate the lock/arm or unlock/disarm wire in the vehicle.
2. Once the correct wire is located, cut it in half and set your digital multimeter to ohms.
3. Place one lead of the meter to (+) 12v or a reliable (-) ground (depending on (+) or (-) multiplex door lock system) and the other lead of the meter to the switch side of the cut wire in the vehicle. Press and hold the switch or turn the key in the door to the lock position. Your meter will display the proper resistance for that function. Repeat the process, however you will be pressing the unlock side of the switch or turning the key in the door to the unlock position and your meter will display the proper resistance for that function.
4. Once the proper resistance(s) have been found use the applicable Type G or Type H diagrams for wiring information.

Note: Not all multiplex door lock circuits for both lock/arm and unlock/disarm will need resistors for both operations. If your meter shows 0 resistance in either direction, then a resistor is not required for that operation.

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1. 1. ☐ Mr. 2. ☐ Mrs. 3. ☐ Ms. 4. ☐ Miss

First Name **Initial** **Last Name**

Street **Apt.**

City **State/Province** **Zip/Postal code**

E-mail address

2. Your date of birth: / /
Month Year

3. Marital status: 01. ☐ Married 02. ☐ Single

4. Date of purchase: / /
Month Day Year

5. Model number:

6. Name of store where purchased:

7. Price paid:
(excluding tax)

8. Which Directed brand did you purchase?
01. ☐ Autostart
02. ☐ Avital
03. ☐ Clifford
04. ☐ Python
05 ☐ Vyper
06 ☐ Other

9. What type of product did you purchase?
01. ☐ Security system
02. ☐ Security system with remote start
03. ☐ Remote start system
04. ☐ Keyless entry system

10. In what vehicle will this product be used?
01. ☐ Car
02. ☐ Truck
03. ☐ SUV
04. ☐ Van
05. ☐ Minivan
06. ☐ Motorcycle
07. ☐ Boat
08. ☐ Motorhome
09. ☐ Other

Make of vehicle:

Model name:

VIN:

Year:

01. ☐ Bought new 03. ☐ Leased new
02. ☐ Bought used 04. ☐ Leased used

11. How did you first become aware of this product? *(check one)*
01. ☐ Local newspaper
02. ☐ Yellow pages
03. ☐ Magazine Ad
04. ☐ TV commercial
05. ☐ Magazine article/ review
06. ☐ Friend/Relative's recommendation
07. ☐ Radio commercial
08. ☐ Salesperson's recommendation
09. ☐ Motorsports sponsorship
10. ☐ Internet
11. ☐ Other

12. What factors most influenced the purchase? *(check up to three)*
01. ☐ Directed's reputation
02. ☐ Experience with Directed products
03. ☐ Experience with dealer
04. ☐ Value/Price
05. ☐ Special features
06. ☐ Warranty
07. ☐ Quality/Durability
08. ☐ Display in-store demo
09. ☐ Rebate/Promotion
10. ☐ Style/Design/Color
11. ☐ Dealer proximity
12. ☐ Friend's recommendation
13. ☐ Salesperson recommendation
14. ☐ Compatibility w/vehicle
15. ☐ Other

13. What benefits most influenced your decision to purchase this product? *(check up to three)*
01. ☐ Improved security
02. ☐ Improved convenience
03. ☐ Improved performance
04. ☐ Compatibility w/vehicle
05. ☐ Ease of installation
06. ☐ Style/Design/Color
07. ☐ Special features
08. ☐ Quality/Durability
09. ☐ Increase vehicle value
10. ☐ Functionality
11. ☐ Warranty
12. ☐ Price/Value
13. ☐ Rebate/Promotion
14. ☐ Immediate availability
15. ☐ Friend/Family's recommendation
16. ☐ Salesperson's recommendation
17. ☐ Dealer proximity

14. What other brands did you seriously consider before making this purchase?
01. ☐ No other brands considered
02. ☐ Other Directed brands
03. ☐ Code Alarm
04. ☐ Audiovox
05. ☐ Auto Page
06. ☐ Compustar
07. ☐ Prestige
08. ☐ Pursuit
09. ☐ Crime Stopper
10. ☐ Bulldog

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