

PROPLME Installation Instructions

Installation Precautions:



Roll down window to avoid locking keys in vehicle during installation



Avoid mounting components or routing wires near hot surfaces



Avoid mounting components or routing wires near moving parts



Tape or loom wires under hood for protection and appearance



Use grommets when routing wires through metal surfaces



Use a Digital Multi Meter for testing and verifying circuits. **DO NOT USE A TEST LIGHT, OR "COMPUTER SAFE PROBE"** as these can set off air bags or damage vehicle computers.



Technical Support (800) 225-6074
or go to
<http://avxtech1.com>

FCC COMPLIANCE

This device complies with Part 15 of the FCC rules and with RSS-210 of Industry Canada. 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 any interference that may cause undesired operation.

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

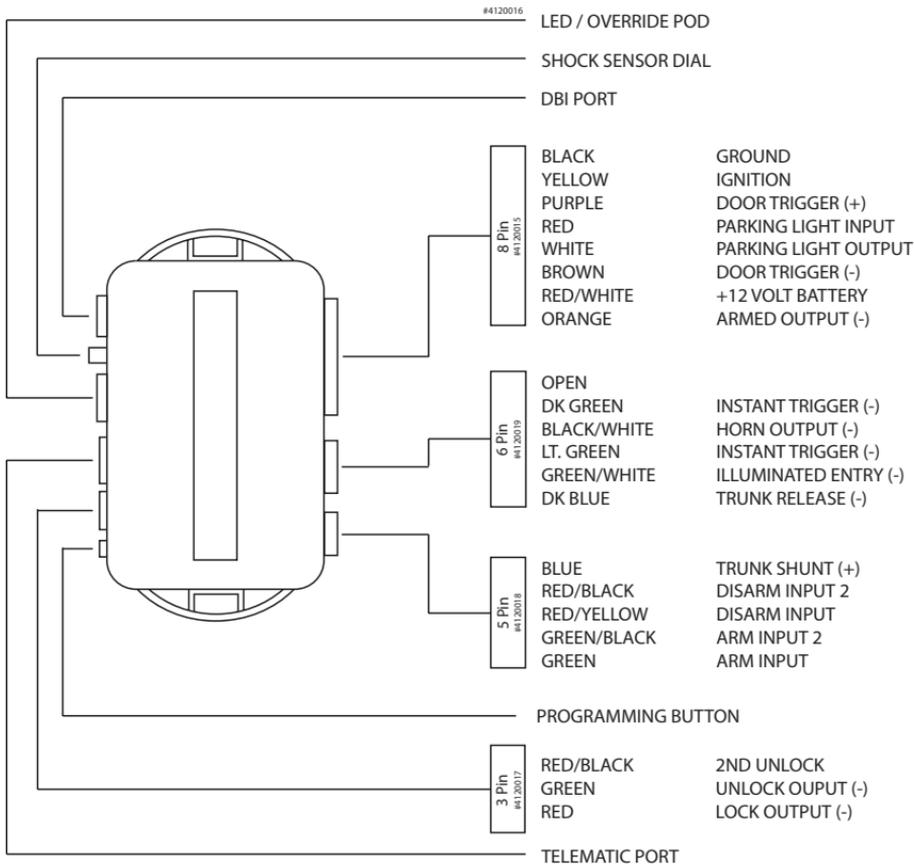
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SECURITY SYSTEM LAYOUT

LOT MODE / CONSUMER SECURITY MODE



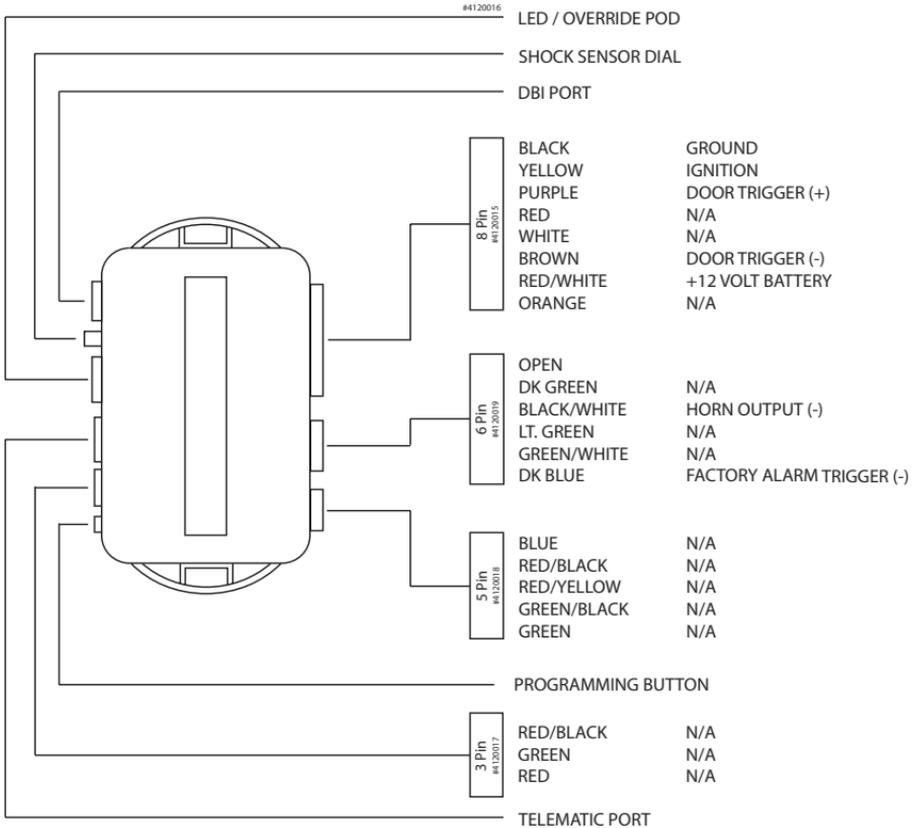
STARTER INTERRUPT RELAY



- | | |
|---------------|-----------------------------------|
| ORANGE | 86 - ARMED OUTPUT (-) |
| RED | 85 - IGNITION (+) |
| BLACK | 87A - STARTER OUTPUT - MOTOR SIDE |
| WHITE / BLACK | 30 - STARTER OUTPUT - KEY SIDE |

I.T.S. - INTERIOR THEFT SENSOR LAYOUT

I.T.S. - INTERIOR THEFT SENSOR - MODE



Please note that this layout is simplified for a basic ITS mode installation with the minimum required connections. If needed, other connections such as the 5 pin arm/disarm harness may still be utilized to arm or disarm the system using the vehicle's factory remote transmitters.

SETUP & PROGRAMMING - CONSUMER MODES

Consumer Mode Types

Blue Mode - Keyless Entry Security Upgrade System.

Full security utilizing the vehicle's existing factory remote transmitters.

Red Mode - Remote Vehicle Security & Keyless Entry System.

Full security adding aftermarket remote transmitters.

Green Mode - Interior Theft Sensor.

Add-on impact sensor for vehicles with basic factory security systems and can also be controlled by either the factory or aftermarket remote transmitters.

Consumer Mode Transmitter Programming

1. Open a door.
2. Turn the ignition ON.
3. Press and release the override button 3 times.
4. The system will chirp 1 time.
5. Press the lock button of each transmitter you wish to program.
6. The system will respond with 1 chirp for each accepted transmitter.
7. Turn the ignition OFF to exit transmitter programming.
8. The system will chirp 2 times to confirm exit.

Note: This system has 1 button programming which programs all channels of the transmitter to the system at once.

Consumer Mode Feature Programming - Without Transmitters

1. Open a door.
2. Turn the ignition ON.
3. Press and release the override button 3 times, the system will chirp 1 time.
4. Turn the ignition OFF, the system will chirp 2 times.
5. Turn the ignition ON, the system will chirp one time indicating option #1 in the feature bank. The LED will flash the current setting for the option.
6. Use the override button to scroll through the selections in the feature bank, the system will chirp to match the feature number.
7. Press the programming button on the module to change the desired feature, The LED will flash indicating the feature's setting.
8. Turn the ignition OFF to exit programming, the system will chirp 1 time to confirm exit.

Consumer Mode Feature Programming - With Transmitters

1. Open a door.
2. Turn the ignition ON.
3. Press and release the override button 3 times, the system will chirp 1 time.
4. Turn the ignition OFF, the system will chirp 2 times.
5. Turn the ignition ON, the system will chirp one time indicating option #1 in the feature bank. The LED will flash the current setting for the option.
6. Use the CAR FIND/PANIC button to scroll through the selections in the feature bank, the system will chirp to match the feature number.
7. Press the LOCK button to change the desired feature. The LED will flash indicating the feature's setting.
8. Turn the ignition OFF to exit programming, the system will chirp 1 time to confirm exit.

Defaulting All Options in the Feature Programming Bank

1. Open a door.
2. Turn the ignition ON.
3. Press and release the override button 3 times, the system will chirp 1 times
4. Press the programming button on the module, the system will chirp 4 times indicating the features have been defaulted.
5. Continue on to edit option settings or turn off the ignition to exit programming.

NOTE: This will also default the Dome Light Delay timing if a custom time was set.

Consumer Mode - Feature Programming Banks

| | |
|--|---|
| | Feature Bank 1 Transmitter Programming |
|--|---|

| | Feature Bank 2 Consumer Mode Security Control | 1 LED Flash | 2 LED flash | 3 LED Flash | 4 LED Flash |
|----|--|-------------------------------|--------------------------|---|--------------|
| 1 | Security Function | ON | OFF | ON - Warn Away Disabled | |
| 2 | Passive Locks | Passive | Active | | |
| 3 | Silent Choice | ON | OFF | | |
| 4 | Passive/Active Arming | Passive | Active | | |
| 5 | Siren/Horn | Siren | Horn | | |
| 6 | Door Trigger Delay | Instant | 15 Second | | |
| 7 | Arm 2 Input Polarity | Negative (-) | Positive (+) | | |
| 8 | Chirps | ON | OFF | ON - Including ITS Mode | |
| 9 | Door Lock Output Timing | 0.9 Seconds | 3 Seconds | 0.9 Sec / Dbl Pulse Unlock | 0.75 Seconds |
| 10 | Ignition Controlled Door Locks | ALL | Lock Only | Unlock Only | OFF |
| 11 | DK BLUE Wire Output | Trunk | ITS Function | ITS Function - Warn Away Disabled | |
| 12 | Disarm 2 Input Polarity | Negative (-) | Positive (+) | | |
| 13 | Horn Output Timing | 10mS | 16mS | 40mS | 72mS |
| 14 | Real Panic Sound | ON | OFF | | |
| 15 | ORANGE Wire Output | (-) Armed Output | (-) Disarmed Output | | |
| 16 | Arming Delay | OFF | 45 Seconds | Factory R/S Option | |
| 17 | GREEN /WHITE Wire Output | Illuminated Entry | Factory Disarm | | |

Programming Notes:

- The system will remain in programming mode as long as the ignition is on, there is no time limit. To exit programming turn the IGNITION OFF.
- Changing feature #11 to either of the "ITS Functionality" settings will change the functionality of the entire system, refer to the "I.T.S. - Interior Theft Sensor Functionality" section of this manual for details.
- Default setting are listed in **BOLD**.

SETUP & PROGRAMMING - LOT MODE

Dealer Lot Mode Description

Lot Mode - Dealer Lot Protection & Keyless Entry System.

Limited security features. Passive arming / locking and starter interrupt utilizing a dealer ACM Keypad remote transmitter.

Lot Mode ACM Keypad Transmitter Programming

1. Open a door.
2. Turn the ignition ON.
3. Press and release the override button 3 times, the system will chirp 1 time.
4. Enter the desired VEHICLE NUMBER into the ACM keypad and then press the LOCK button, the system will respond with 1 chirp.
5. Turn the ignition OFF to exit transmitter programming, the system will chirp 2 times to confirm exit.

NOTE: This system has 1 button programming which programs all channels of the transmitter to the system at once.

When an ACM keypad is programmed to the system, it is automatically transitioned into Lot Mode. Only 1 vehicle number may be learned to the system.

Lot Mode Feature Programming - Without an ACM Keypad

1. Open a door.
2. Turn the ignition ON.
3. Press and release the override button 3 times, the system will chirp 1 time.
4. Turn the ignition OFF, the system will chirp 2 times.
5. Turn the ignition ON, the system will chirp one time indicating option #1 in the feature bank. The LED will flash the current setting for the option.
6. Use the override button to scroll through the selections in the feature bank, the system will chirp to match the feature number.
7. Press the programming button on the module to change the desired feature. The LED will flash indicating the feature's setting.
8. Turn the ignition OFF to exit programming, the system will chirp 1 time to confirm exit.

Lot Mode Feature Programming - With an ACM Keypad

1. Open a door.
2. Turn the ignition ON.
3. Press and release the override button 3 times, the system will chirp 1 time.
4. Turn the ignition OFF, the system will chirp 2 times.
5. Turn the ignition ON, the system will chirp one time indicating option #1 in the feature bank. The LED will flash the current setting for the option.
6. Use the CAR FIND/PANIC button to scroll through the selections in the feature bank, the system will chirp to match the feature number.
7. Press the LOCK button to change the desired feature. The LED will flash indicating the feature's setting.
8. Turn the ignition OFF to exit programming, the system will chirp 1 time to confirm exit.

Defaulting All Options in the Feature Programming Bank

1. Open a door.
2. Turn the ignition ON.
3. Press and release the override button 3 times, the system will chirp 1 time.
4. Press the programming button on the module, the system will chirp 4 times indicating the features have been defaulted.
5. Continue on to edit option settings or turn off the ignition to exit programming.

NOTE: This will also default the Dome Light Delay timing if a custom time was set.

Lot Mode - Feature Programming Banks

| Feature Bank 1 Transmitter Programming | | | | | |
|---|--|-----------------------|--------------------------|---|--------------|
| | Feature Bank 2 Lot Mode Security Control | 1 LED Flash | 2 LED flash | 3 LED Flash | 4 LED Flash |
| 1 | Security Function | ON | OFF | ON - Warn Away Disabled | |
| 2 | Passive Locks | Passive | Active | | |
| 3 | Silent Choice | ON | OFF | | |
| 4 | Passive/Active Arming | Passive | Active | | |
| 5 | Siren/Horn | Siren | Horn | | |
| 6 | Door Trigger Delay | Instant | 15 Second | | |
| 7 | Arm 2 Input Polarity | Negative (-) | Positive (+) | | |
| 8 | Chirps | ON | OFF | ON - Including ITS Mode | |
| 9 | Door Lock Output Timing | 0.9 Seconds | 3 Seconds | 0.9 Sec / Dbl Pulse Unlock | 0.75 Seconds |
| 10 | Ignition Controlled Door Locks | ALL | Lock Only | Unlock Only | OFF |
| 11 | DK BLUE Wire Output | Trunk | ITS Function | ITS Function - Warn Away Disabled | |
| 12 | Disarm 2 Input Polarity | Negative (-) | Positive (+) | | |
| 13 | Horn Output Timing | 10mS | 16mS | 40mS | 72mS |
| 14 | Real Panic Sound | ON | OFF | | |
| 15 | ORANGE Wire Output | (-) Armed Output | (-) Disarmed Output | | |
| 16 | Arming Delay | OFF | 45 Seconds | Factory R/S Option | |
| 17 | GREEN /WHITE Wire Output | Illuminated Entry | Factory Disarm | | |
| 18 | Lot Alert | OFF | ON | | |
| 19 | Lot Mode Passive Arming Timers IX Disarm / Ignition | 5 / 30 minute | 1 / 1 minute | | |

Programming Notes:

- The system will remain in programming mode as long as the ignition is on, there is no time limit. To exit programming turn the IGNITION OFF.
- Changing feature #11 to either of the "ITS Functionality" settings will change the functionality of the entire system, refer to the "I.T.S. - Interior Theft Sensor Functionality" section of this manual for details.
- Default settings are listed in **BOLD**.

CONSUMER & LOT MODE TYPES

Consumer Mode Types

Blue Mode - Keyless Entry Security Upgrade System.

Full security utilizing the vehicle's existing factory remote transmitters. The LED will flash BLUE in this mode.

Red Mode - Remote Vehicle Security & Keyless Entry System.

Full security adding aftermarket remote transmitters. The LED will flash RED in this mode.

Green Mode - Interior Theft Sensor.

Add-on impact sensor for vehicles with basic factory security systems and can also be controlled by either the factory or aftermarket remote transmitters. The LED will flash GREEN in this mode.

Lot Mode Types

Yellow Mode - No-Sale Mode.

Completely disables the system. Requires a special fixture to recover from this mode. The LED does not flash.

Lot Mode - Dealer Lot Protection & Keyless Entry System.

Limited security features. Passive arming / locking and starter interrupt utilizing a dealer ACM Keypad remote transmitter. The LED will flash RED in this mode.

BCA Mode - Borrowed Car Agreement.

BCA Mode can also only be accessed while in Lot Mode and puts the Lot Mode feature into a "valet" status to allow an extended driving period for the customer. BCA Mode is only accessible through special access ACM Keypads. The LED alternates between RED and BLUE in this mode.

The system is shipped from the factory in BLUE mode, programming a Remote transmitter to the system will cause the unit to enter RED mode. The only difference between the blue and red modes are the addition of the transmitters in red mode. The GREEN mode can be activated while in the consumer Blue/Red modes by changing the option in the programming bank.

Transitioning into Lot Mode or from Lot Mode into any of the consumer modes requires an authorized ACM keypad and is explained in the sections that follow.

TRANSITIONING BETWEEN MODES - ACM KEYPAD

Entering into Lot Mode from any Consumer Mode

1. Turn the ignition ON.
2. Press and release the override button 3 times, the system will chirp 1 time.
3. Enter the desired VEHICLE NUMBER into the ACM keypad and then press the LOCK button.
4. The system will respond with 1 chirp.
5. Turn the ignition OFF to exit transmitter programming, the system will chirp 2 times to confirm exit.

Notes:

- This system has 1 button programming which programs all channels of the transmitter to the system at once.
- Use of an ACM keypad is required.
- Once an ACM keypad is programmed to the system, it is automatically transitioned into Lot Mode. Only 1 vehicle number may be learned to the system.
- When in lot mode, a consumer remote can not be programmed to the system until it is transitioned to consumer mode.
- All programming features will be defaulted to the factory default settings.

Blue Mode - Keyless Entry Security Upgrade

1. Open a vehicle door.
2. Enter the vehicle number into an ACM keypad.
3. Press the UNLOCK button.
4. Press and release the TRANS button.
5. Press and release the "BLUE" button.
6. The LED will flash blue 1 time and the system will chirp 3 times.
7. Close the vehicle's door.

Notes:

- The ACM keypad must be authorized for transitioning.
- Factory Keyless Upgrade Mode enables all of the device's security functionality and utilizes the factory remote transmitters.

Red Mode - Remote Vehicle Security & Keyless Entry

1. Open a vehicle door.
2. Enter the vehicle number into an ACM keypad.
3. Press the UNLOCK button.
4. Press and release the TRANS button.
5. Press and release the "RED" button.
6. The LED will flash red 1 time and the system will chirp 3 times.
7. Within 5 seconds program the aftermarket transmitter by pressing the lock button of each transmitter you wish to program.
8. Close the vehicle's door.

Notes:

- The ACM keypad must be authorized for transitioning.
- If no remotes are programmed during step 7, the system will automatically transition into the Factory Keyless Entry Security Upgrade Mode - BLUE
- Security with Transmitters Mode enables all of the device's security functionality by use of aftermarket transmitters.

Green Mode - I.T.S. Interior Theft Sensor

1. Open a vehicle door.
2. Enter the vehicle number into an ACM keypad.
3. Press the UNLOCK button.
4. Press and release the TRANS button.
5. Press and release the "GREEN" button.
6. Close the vehicle's door.

Notes:

- The ACM keypad must be authorized for transitioning.
- I.T.S. mode enables the shock sensor only of this device for applications in a vehicle equipped with a factory security system.

Yellow Mode - No-Sale

1. Open a vehicle door.
2. Enter the vehicle number into an ACM keypad.
3. Press the UNLOCK button.
4. Press and release the TRANS button.
5. Press and release the "YELLOW" button.
6. Close the vehicle's door.

Notes:

- The ACM keypad must be authorized for transitioning.
- No-Sale mode disables all functionality of the unit and requires a programming jig to recover the module from this mode. This mode is typically only used when there is a no-sale of the product and you are not removing the system from the vehicle.

Purple Mode - B.C.A. Borrowed Car Agreement

1. Open a vehicle door.
2. Enter the vehicle number into an ACM keypad.
3. Press the UNLOCK button.
4. Press and release the TRANS button.
5. Press and release the "PURPLE" button.
6. Close the vehicle's door.

Notes:

- The ACM keypad must be authorized for BCA transitioning.
- Lot Mode and puts the Lot Mode feature into a "valet" status to allow an extended driving period for the customer. Note that the is still in Lot Mode.

Exit B.C.A. Mode

Exiting B.C.A. Mode returns the unit to an active Lot Mode state with the original vehicle stock number entered when Lot Mode was activated.

1. Open a vehicle door.
2. Turn ON the vehicle's ignition.
3. Press and Hold the valet button for 3 seconds. The unit will exit BCA Mode.

TRANSITIONING BETWEEN MODES - SHORT RANGE TRANSMITTER

Entering into Lot Mode from any Consumer Mode

1. Turn the ignition ON.
2. Press and release the override button 3 times, the system will chirp 1 time.
3. Press button 1 of the short range transmitter, the system will chirp 1 time.
4. Turn the ignition OFF to exit transmitter programming.
5. The system will chirp 2 times to confirm exit.

Notes:

- This system has 1 button programming which programs all channels of the transmitter to the system at once.
- When in lot mode, a consumer remote can not be programmed to the system until it is transitioned to consumer mode.
- All programming features will be defaulted to the factory default settings.

Transitioning into Consumer Mode

1. Open a vehicle door.
2. Press and hold button 2 of the short range transmitter until the system chirps 3 times.
3. Again press and hold button 2 of the short range transmitter until the system chirps 3 times.
4. Within 5 seconds program a consumer remote. If no remotes are programmed in the 5 second window, the system will default to the factory keyless upgrade setting which uses the factory remote controls to arm and disarm the system.

Notes:

- Programming features 1-4 will be defaulted to the factory default settings, programming features 5-13 will retain any changes that have been made.

ON BOARD SHOCK SENSOR

Adjusting and Testing the Shock Sensor

It is recommended that you test the shock sensor after making any adjustments to the sensitivity.

The shock sensor has two levels of protection, one to detect light impacts to the vehicle and one to detect larger impacts. Adjusting the shock sensor's sensitivity dial will adjust both light and full triggers zones simultaneously. If the light impact zone, also referred to as warn-away, can be turned completely off in option programming.

To test the shock sensor, arm the system and wait 6 - 10 seconds for the zone to stabilize, then firmly strike the vehicle being careful not to damage it. Repeat if necessary.

- Increase sensitivity by turning the adjustment dial clockwise.
- Decrease sensitivity by turning the adjustment dial counter clockwise.

When using the aftermarket remote transmitter the shock sensor can be temporarily bypassed when for one arm cycle by pressing Trunk or Find button within 5 seconds of pressing the Lock button.

8 PIN MAIN HARNESS

| | | | |
|------------|---|-------------|--------------------------|
| 8 PIN MAIN | 1 | BLACK | GROUND |
| | 2 | YELLOW | IGNITION (+) |
| | 3 | PURPLE | DOOR TRIGGER INPUT (+) |
| | 4 | RED | PARKING LIGHT INPUT |
| | 5 | WHITE | PARKING LIGHT OUTPUT |
| | 6 | BROWN | DOOR TRIGGER INPUT (-) |
| | 7 | RED / WHITE | BATTERY 12V (+) |
| | 8 | ORANGE | ARMED OUTPUT (-) |

6 PIN INPUT / OUTPUT HARNESS

| | | | |
|----------------------|---|---------------|--------------------------------|
| 6 PIN INPUT / OUTPUT | 1 | OPEN | |
| | 2 | DK GREEN | INSTANT TRIGGER INPUT (-) |
| | 3 | BLACK / WHITE | HORN OUTPUT (-) |
| | 4 | LT GREEN | INSTANT TRIGGER INPUT (-) |
| | 5 | GREEN / WHITE | ILLUMINATED ENTRY OUTPUT (-) |
| | 6 | DK BLUE | TRUNK RELEASE OUTPUT (-) |

5 PIN INPUT HARNESS

| | | | |
|-------------|---|---------------|-------------------------|
| 5 PIN INPUT | 1 | BLUE | TRUNK SHUNT INPUT (+) |
| | 2 | RED / BLACK | DISARM INPUT 2 |
| | 3 | RED/YELLOW | DISARM INPUT |
| | 4 | GREEN / BLACK | ARM INPUT 2 |
| | 5 | GREEN | ARM INPUT |

3 PIN LOCK HARNESS

| | | | |
|---------------|---|-------------|-------------------------|
| 3 PIN LOCK | 1 | RED / BLACK | 2ND UNLOCK OUTPUT (-) |
| | 2 | GREEN | UNLOCK OUTPUT (-) |
| | 3 | RED | LOCK OUTPUT (-) |

STARTER INTERRUPT HARNESS

| | | | |
|-------------------------------|-----|---------------|-----------------------------|
| STARTER INTERRUPT RELAY | 86 | ORANGE | ARMED OUTPUT (-) |
| | 85 | RED | IGNITION (+) |
| | 87a | BLACK | STARTER OUTPUT - MOTOR SIDE |
| | 87 | WHITE / BLACK | STARTER OUTPUT - KEY SIDE |

8 PIN MAIN HARNESS

| | | |
|---|-------|-----------------------------|
| 1 | BLACK | Chassis Ground Source (-) |
|---|-------|-----------------------------|

Connect the BLACK wire to a solid chassis ground point using a ring terminal and self tapping screw (not supplied). Scrape away paint from the grounding point to ensure a good connection. The recommended grounding point is a metal surface in the driver's side kick panel area.

NOTE: Do not ground the BLACK wire with any other vehicle components.

| | | |
|---|--------|----------------|
| 2 | YELLOW | Ignition (+) |
|---|--------|----------------|

Locate the vehicle's ignition wire at the ignition switch.

Verification: This wire registers voltage when the key is turned to the ON (or RUN) position. The voltage does not drop out when the key is turned to the START (or CRANK) position.

Connect the YELLOW wire to the vehicle's Ignition wire.

| | | |
|---|--------|--------------------------|
| 3 | PURPLE | Door Trigger Input (+) |
|---|--------|--------------------------|

Locate the vehicle's dome light or door pin switch wire.

Verification: This wire will register positive voltage (POS) when the door is opened and the interior light is on. This wire will register ground or "0" Volts when the door is closed and the interior light is off.

Connect the PURPLE wire to the vehicle's positive door input wire(s).

NOTE: Certain vehicles may require multiple connections. Refer to vehicle application guide

| | | |
|---|-------|--------------------------------|
| 4 | RED | Parking Light Polarity |
| 5 | WHITE | Parking Light Output (+ / -) |

Locate the vehicle's parking light wire at the vehicle light switch.

Verification: This wire will register positive voltage or ground when the vehicle parking light switch is turned to the ON position.

These wires are the COMMON and NORMALLY OPEN contacts of the on-board parking light relay. If the vehicle's parking lights are a +12 volt switched system, connect the RED wire to a fused +12 volt battery source, and connect the WHITE wire to the vehicle's parking light wire. If the vehicle's parking lights are a chassis ground switched system, connect the RED wire to a chassis ground source, and connect the WHITE wire to the vehicle's parking light wire.

| | | |
|---|-------|--------------------------|
| 6 | BROWN | Door Trigger Input (-) |
|---|-------|--------------------------|

Locate the vehicle's dome light or door pin switch wire.

Verification: This wire will register ground (NEG) when the door is opened and the interior light is on. This wire will register positive voltage when the door is closed and the interior light is off.

Connect the BROWN wire to the vehicle's negative door input wire(s).

NOTE: Certain vehicles may require multiple connections. Refer to vehicle application guide

| | | |
|---|-------------|-----------------------------|
| 7 | RED / WHITE | 12 Volt Battery Input (+) |
|---|-------------|-----------------------------|

Locate 1 of the vehicle's constant 12 Volt battery wires at the ignition switch.

Verification: This wire will register voltage in all positions of the ignition switch.

Connect the RED/WHITE wire to the constant 12 Volt battery wire.

NOTE: Remove the in-line fuse until all connections are made.

| | | | |
|---|--------|--------------------|-------|
| 8 | ORANGE | Armed Output (-) | 500mA |
|---|--------|--------------------|-------|

This wire will show ground when the system is armed. This wire is used for controlling a starter interrupt relay, window modules or other additional sensors.

NOTE: Can also be used as a Disarmed Output (-) for a normally open starter kill. Setting must be changed in option programming.

6 PIN INPUT / OUTPUT HARNESS

| | | |
|---|------|--------------------|
| 1 | OPEN | No Wire Connection |
|---|------|--------------------|

| | | |
|---|-----------|-----------------------------|
| 2 | DK. GREEN | Instant Trigger Input (-) |
|---|-----------|-----------------------------|

This wire is a ground input for an external sensor, trunk pin or secondary pin switch.

Verification: This wire, when connected, will trigger the security system.

| | | | |
|---|---------------|-------------------|-------|
| 3 | BLACK / WHITE | Horn Output (-) | 300mA |
|---|---------------|-------------------|-------|

Locate the vehicle's horn wire at the steering column.

Verification: This wire will register at positive voltage and register ground when the horn switch is pressed.

Connect the BLACK/WHITE wire to the vehicle's horn wire.

| | | |
|---|-----------|-----------------------------|
| 4 | LT. GREEN | Instant Trigger Input (-) |
|---|-----------|-----------------------------|

Install the supplied Hood Pin Switch and connect to the LT GREEN wire.

Verification: This wire when connected will register ground when the vehicle's hood is opened.

Connect the LT GREEN wire to the hood pin.

NOTE: Be sure to loom the wire, and seal the grommet.

| | | |
|---|---------------|--------------------------------------|
| 5 | GREEN / WHITE | Illuminated Entry Output (-) 200mA |
|---|---------------|--------------------------------------|

This wire provides a 200mA output for 30 seconds when the system is disarmed and a continuous output when the system is triggered.

Verification: This wire will register positive voltage or ground when the vehicle's dome light is turned ON.

Locate the vehicle's dome light or pin switch wire.

| | | |
|---|----------|----------------------------------|
| 6 | DK. BLUE | Trunk Release Output (-) 300mA |
|---|----------|----------------------------------|

This wire provides a 500mA negative output capable of driving relays. For Control of optional accessories such as trunk release.

- To Activate press and hold UNLOCK for 2 seconds.

Verification: This wire will register either positive voltage or ground when the trunk release is activated.

Locate the vehicle's trunk release wire at the trunk release switch.

5 PIN INPUT HARNESS

| | | |
|---|------|-------------------------|
| 1 | BLUE | Trunk Shunt Input (+) |
|---|------|-------------------------|

This Wire, when activated, will suspend all security zones from triggering the system until 5 second after the shunt input OR the last trigger input clears.

| | | |
|---|-------------|----------------|
| 2 | RED / BLACK | Disarm Input 2 |
|---|-------------|----------------|

This wire will prevent the system from disarming the security system when a POS or NEG pulse is applied to it from an external device. This will prevent the system from disarming if it is pulsed at the same time as the RED (Disarm Input) wire.

For example: To prevent the system from disarming from the switch on the door connect this wire to the unlock switch or passenger unlock motor wire

NOTE: Only required if using the factory keyless entry transmitter to ARM/DISARM this system.

| | | |
|---|--------------|--------------|
| 3 | RED / YELLOW | Disarm Input |
|---|--------------|--------------|

This wire will DISARM the security system when a (+) pulse is applied to it from an external device such as the vehicle's factory unlock motor wire.

| | | |
|---|---------------|-------------|
| 4 | GREEN / BLACK | Arm Input 2 |
|---|---------------|-------------|

This wire will prevent the system from arming the security system when a POS or NEG pulse is applied to it from an external device. This will prevent the system from disarming if it is pulsed at the same time as the GREEN (Arm Input) wire.

For example: To prevent the system from arming from the switch on the door connect this wire to the lock switch or passenger lock motor wire

NOTE: Only required if using the factory keyless entry transmitter to ARM/DISARM this system.

| | | |
|---|-------|-----------|
| 5 | GREEN | Arm Input |
|---|-------|-----------|

This wire will ARM the security system when a (+) pulse is applied to it from an external device such as the vehicle's factory lock motor wire.

3 PIN DOOR LOCK HARNESS

| | | | |
|---|-------------|-------------------------|-------|
| 1 | RED / BLACK | 2nd Unlock Output (-) | 200mA |
| 2 | GREEN | Unlock Output (-) | 200mA |
| 3 | Red | Lock Output (-) | 200mA |

Negative Switching and Negative Switching with 2-step unlock feature:

All Door Lock and Unlock: Locate the lock / unlock wire at the vehicle's lock / unlock switch.

Verification: These wires will register ground when the lock and unlock switches are activated.

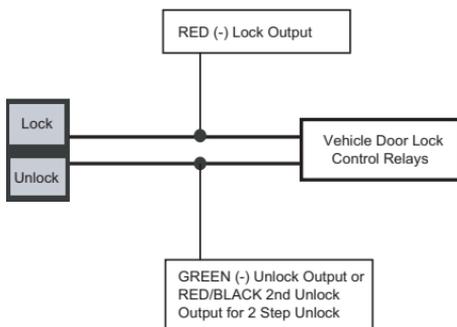
Driver's Door Unlock: Locate the unlock motor wire directly from the actuator inside the driver's door.

Verification: This wire will rest at ground and register positive voltage when the driver's door is unlocked.

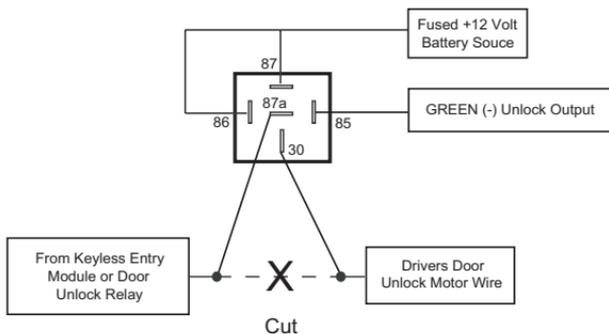
Connect the RED and GREEN or RED/BLACK wires shown in the diagram below.

NOTE: When adding the 2 step unlock feature the RED/BLACK 2nd door unlock wire will be used to unlock all vehicle doors on the second press of unlock. An additional SPDT relay (not supplied) is required. Connect the relay as shown in the diagram below to unlock the driver's door on the first press of unlock.

Negative Locks:



For 2 Step Unlock:



| | | | |
|---|-------------|-------------------------|-------|
| 1 | RED / BLACK | 2nd Unlock Output (-) | 200mA |
| 2 | GREEN | Unlock Output (-) | 200mA |
| 3 | Red | Lock Output (-) | 200mA |

Positive Switching and Positive Switching with 2-step unlock feature:

All Door Lock and Unlock: Locate the lock / unlock wire at the vehicle's lock / unlock switch.

Verification: These wires will register positive voltage when the lock and unlock switches are activated.

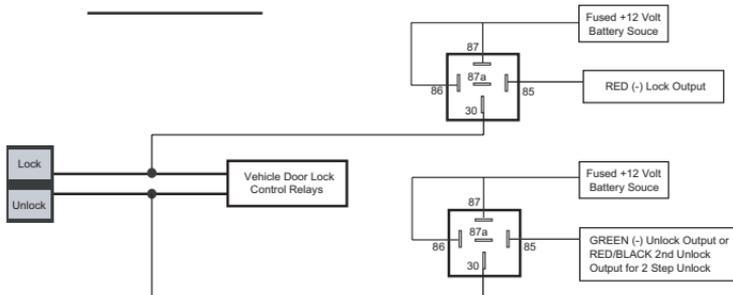
Driver's Door Unlock: Locate the unlock motor wire directly from the actuator inside the driver's door.

Verification: This wire will rest at ground and register positive voltage when the driver's door is unlocked.

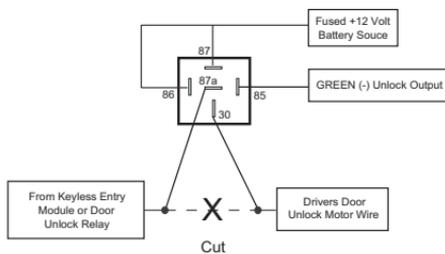
Connect the RED and GREEN or RED/BLACK wires shown in the diagram below.

NOTE: When adding the 2 step unlock feature the RED/BLACK 2nd door unlock wire will be used to unlock all vehicle doors on the second press of unlock. Two additional SPDT relays (not supplied) are required. Connect the relays as shown in the diagram below to unlock the driver's door on the first press of unlock.

Positive Locks:



For 2 Step Unlock:



| | | | |
|---|-------------|-------------------------|-------|
| 1 | RED / BLACK | 2nd Unlock Output (-) | 200mA |
| 2 | GREEN | Unlock Output (-) | 200mA |
| 3 | Red | Lock Output (-) | 200mA |

One Wire Negative Multiplexed and One Wire Negative Multiplexed with 2 step Unlock Feature:

All Door Lock and Unlock: Locate the lock / unlock wire at the vehicle's lock / unlock switch.

Verification: This wire will show variable ground when the switch is activated. Please consult the **Vehicle Wire Color and Location Chart** for specific resistor values for the vehicle.

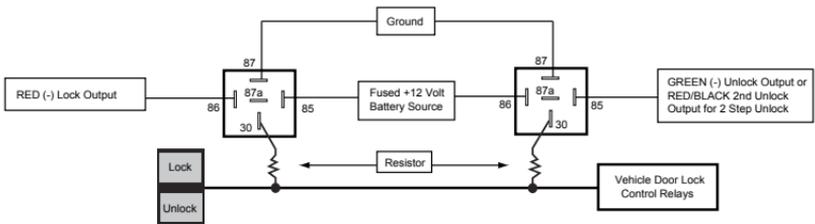
Driver's Door Unlock: Locate the unlock motor wire directly from the actuator inside the driver's door.

Verification: This wire will rest at ground and register positive voltage when the driver's door is unlocked.

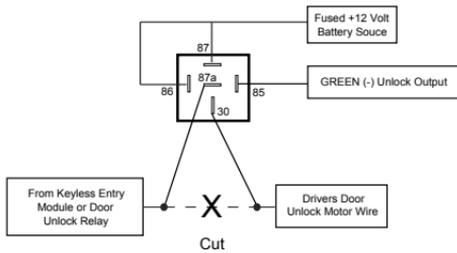
Connect the RED and GREEN or RED/BLACK wires shown in the diagram below using (2) SPDT relays (not supplied).

NOTE: When adding the 2 step unlock feature the RED/BLACK 2nd door unlock wire will be used to unlock all vehicle doors on the second press of unlock. An additional SPDT relay (not supplied) is required. Connect the relay as shown in the diagram below to unlock the driver's door on the first press of unlock.

Multiplex Locks:



For 2 Step Unlock:



| | | | |
|---|-------------|-------------------------|-------|
| 1 | RED / BLACK | 2nd Unlock Output (-) | 200mA |
| 2 | GREEN | Unlock Output (-) | 200mA |
| 3 | Red | Lock Output (-) | 200mA |

One Wire Positive Multiplexed and One Wire Multiplexed With 2-step Unlock Feature:

All Door Lock and Unlock: Locate the lock / unlock wire at the vehicle's lock / unlock switch.

Verification: This wire will show variable positive voltage when the switch is activated. Please consult the **Vehicle Wire Color and Location Chart** for specific resistor values for your vehicle.

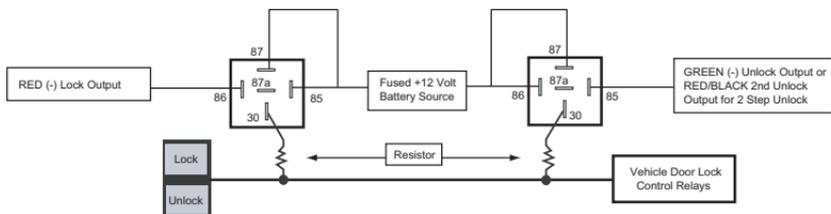
Driver's Door Unlock: Locate the unlock motor wire directly from the actuator inside the driver's door.

Verification: This wire will rest at ground and register positive voltage when the driver's door is unlocked.

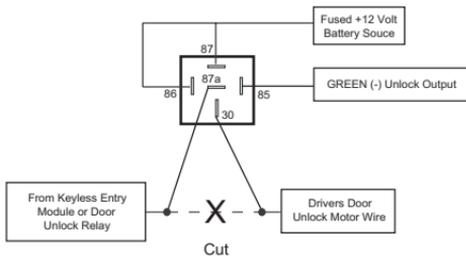
Connect the RED and GREEN or RED/BLACK wires shown in the diagram below using (2) SPDT relays (not supplied).

NOTE: When adding the 2 step unlock feature the RED/BLACK 2nd door unlock wire will be used to unlock all vehicle doors on the second press of unlock. An additional SPDT relay (not supplied) is required. Connect the relay as shown in the diagram below to unlock the driver's door on the first press of unlock.

Multiplex Locks:



For 2 Step Unlock:



| | | | |
|---|-------------|-------------------------|-------|
| 1 | RED / BLACK | 2nd Unlock Output (-) | 200mA |
| 2 | GREEN | Unlock Output (-) | 200mA |
| 3 | Red | Lock Output (-) | 200mA |

Reverse Polarity (5-Wire Door locks) and Reverse Polarity with 2-step Unlock:

All Door Lock and Unlock: Locate the lock / unlock wire at the vehicle's lock / unlock switch.

Verification: These wires will rest at ground and register positive voltage when the lock and unlock switches are activated.

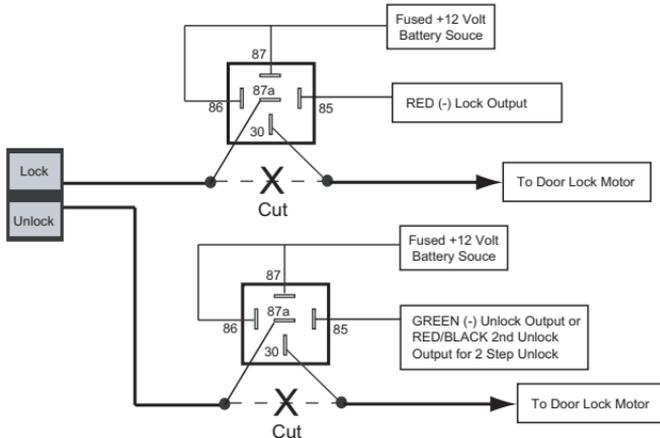
Driver's Door Unlock: Locate the unlock motor wire directly from the actuator inside the driver's door.

Verification: This wire will rest at ground and register positive voltage when the driver's door is unlocked.

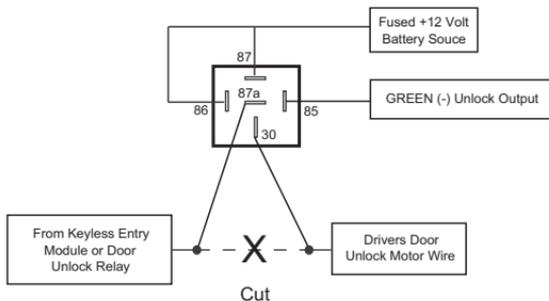
Connect the RED and GREEN or RED/BLACK wires shown in the diagram below using (2) SPDT relays (not supplied).

NOTE: When adding the 2 step unlock feature the RED/BLACK 2nd door unlock wire will be used to unlock all vehicle doors on the second press of unlock. An additional SPDT relay (not supplied) is required. Connect the relays as shown in the diagram below to unlock the driver's door on the first press of unlock.

Reverse Polarity Locks:



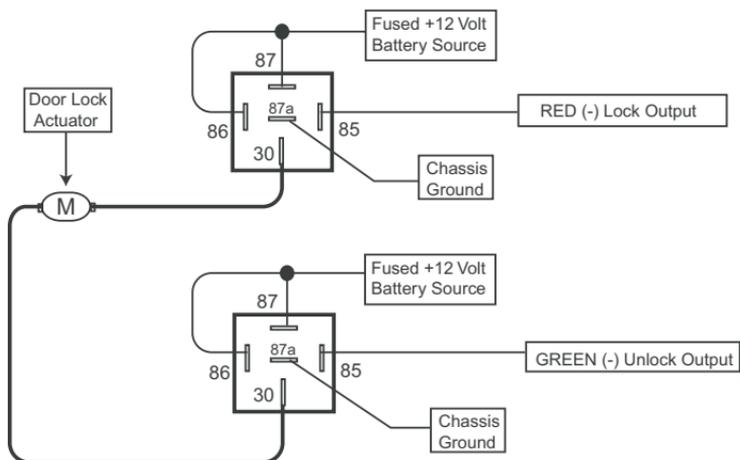
For 2 Step Unlock:



| | | | |
|---|-------------|-----------------------|-------|
| 1 | RED / BLACK | 2nd Unlock Output (-) | 200mA |
| 2 | GREEN | Unlock Output (-) | 200mA |
| 3 | Red | Lock Output (-) | 200mA |

Adding Door Actuators:

After installing door actuators, (not supplied). Connect the RED and GREEN wires shown in the diagram below using (2) SPDT relays (not supplied).



ACCESSORY CONNECTORS

6 Pin LED / Override Pod

The status LED / override button should be mounted in a visible and easily accessible location on the driver's dashboard area. Route the harness and plug the 6 pin connector into the module.

4 Pin Telematic Port

This 4 pin port is used for connecting the telematic accessories such as Car Connection, CarLink, or PursuiTrak.

4 Pin DBI - Data Bus Interface Port

This 4 pin port is used for Flashlogic Door Lock and Transponder Databus Interfaces to communicate with the vehicle's Databus. When using the DBI port to control the Flashlogic Door Lock and Transponder Interface modules the following options may be available. Please refer to the D2D (Data to Data) function list available per vehicle on the tech service web site.

| | |
|----------------------------|--|
| Door Trigger | Trunk/Hatch Open |
| Keyless Entry Control | Dome Light Supervision |
| Factory Alarm Arm / Disarm | Manual Arm / Disarm Inputs (factory keyless controls system) |

I.T.S. - INTERIOR THEFT SENSOR FUNCTIONALITY

I.T.S. - Interior Theft Sensor Introduction

The system may be used as an I.T.S. (Interior Theft Sensor) and when doing so it is designed to honk the horn if a light impact is detected or trigger the vehicle's factory security system if a harder impact is detected.

Note: The vehicle **MUST** have a factory security system that is triggered by opening the vehicle's door.

Option #11 must be changed in the feature programming bank for the system to function as the I.T.S.. This will also happen automatically when transitioning from Lot mode to Green mode using an ACM Keypad.

The factory keyless remote can also be used to arm/disarm the I.T.S. sensor as long as the standard arm & disarm input wires are connected to the vehicle. You may also program an aftermarket remote transmitter to the unit as well.

I.T.S. ACTIVATION

Factory Alarm Trigger

The ITS Factory Alarm Trigger is active 30 seconds after the ignition is turned off and the factory alarm has been set. When a heavy impact is detected the ITS will pulse the vehicle's door trigger wire to active the factory alarm.

Optional Warn Away

The optional Warn-Away Trigger is active 30 seconds after the ignition key is turned off and the dome light shuts off after exiting the vehicle. When a light impact is detected the system will briefly honk the vehicles horn. If at any time a door is opened (dome light "on"), the Warn-Away Trigger will be bypassed until the ignition key is cycled "ON" and "OFF". This feature prevents the Warn-Away chirps of the vehicle's horn when the customer/user enters the vehicle. The Warn-Away Trigger will reactivate when the ignition key is cycled "ON" and "OFF" again.

Valet Mode

Valet Mode deactivates both the optional Warn-Away and Factory Alarm Trigger.

To turn Valet Mode ON:

Turn the ignition key to the ON position and press and hold the valet button until the LED turns on solid.

To turn Valet Mode OFF:

Turn the ignition key to the ON position and press and hold the valet button until the LED turns off.

I.T.S. Harness Connections

DK BLUE - Factory Alarm Trigger: Connect this to a wire which triggers the vehicle's factory alarm system such as the door ajar, hood or trunk wire.

PURPLE and BROWN - Door Inputs (+ / -): Connect one of these wires to the vehicle's dome light wire.

RED/WHITE - +12 Volt Input: Connect this wire to constant +12 volt source.

BLACK - Ground Input: Connect this wire to chassis ground.

YELLOW - Accessory Input: Connect this wire to +12 volt accessory source.

BLACK/WHITE - Warn Away Horn Output: Connect this wire to the vehicle's horn wire.

NOTES:

The ITS uses the PURPLE or BROWN (Door Input) to DISARM the optional Warn-Away feature. The PURPLE or BROWN must sense all of the doors for the ITS to DISARM properly. It is recommended to only use the Warn-Away feature with vehicle's that have an "ALL" door trigger output in the vehicle.

SYSTEM POWER-UP PROCEDURE

1. After all connections are complete, turn the vehicle's ignition key to the ON position
2. Insert the 5 Amp fuse into the respective fuseholder.
3. Turn the ignition key to the OFF position.

MOUNTING THE MODULE / FINISHING INSTALLATION

Mount the module to a brace or wire harness under the dash. The module and harnesses must be clear of moving parts.

Installation Complete.

FEATURE DESCRIPTIONS

Feature Bank 1, 3 Chirps

- 1 - Security Function:** Controls security functionality - ON / OFF. Note: In Lot Mode all security triggers will be ignored no matter what setting is selected.
ON - Full security functionality.
OFF - The security system does not trigger. All other convenience features operate as normal.
ON, Warn Away Disabled - Full security functionality with the warn-away function of the shock sensor disabled.
- 2 - Passive Locks:** Determines manual or automatic locking of the vehicle's doors.
Passive - Automatically locks the vehicle's doors 1 minute after the last door is closed.
Active - Requires use of the transmitter to lock the vehicle's doors.
- 3 - Silent Choice:** Controls when the normal arm/disarm chirps of the security system will sound. (Feature #8 must be ON)
ON - Silent arming/disarming upon first press of lock/unlock, pressing lock/unlock a second time will activate the arm/disarm chirps respectively. The system will only sound the arm/disarm chirps upon a second press of the lock/unlock buttons.
OFF - normal arm/disarm chirps upon the first press of lock/unlock.
- 4 - Passive/Active Arming:** Determines manual or automatic locking of the vehicle's doors.
Passive - Automatically arms the security system 1 minute after the last door is closed.
Active - Requires use of the transmitter to arm the security system.
- 5 - Siren / Horn:** This feature selects the output type for the BLACK/WHITE wire during the security trigger cycle.
Siren - 30 second constant output.
Horn - 30 second pulsed output.
- 6 - Door Trigger Delay:** Selectable instant or delayed trigger cycle when security is triggered by the door input.
Instant - Door input instantly triggers alarm sequence.
15 Second - Door input delays triggering the alarm sequence for 15 seconds.
- 7 - Arm Input 2 Polarity:** Select the input polarity as positive or negative.

8 - Arm/Disarm Chirps: Controls the normal Arm / Disarm chirps. NOTE: This feature must be ON to use system chirps even with the silent choice feature enabled

ON - Arm / Disarm chirps function as normal.

OFF - All Arm / Disarm chirps are disabled.

ON Including ITS Mode - Arm / Disarm chirps function as normal including when in ITS Mode.

9 - Door Lock Output Timing: Controls the timing of the RED and GREEN lock output wires.

0.9 Second - Single 0.9 second lock pulse, single 0.9 second unlock pulse.

3 Seconds - Single 3 second lock pulse, single 3 second unlock pulse.

0.9 Second Lock, Double Pulse Unlock - Single 0.9 second lock pulse, double 0.9 second unlock pulse.

0.75 Second - Single 0.75 second lock pulse, single 0.75 second unlock pulse.

10 - Ignition Controlled Locks: Control of door locks when the ignition is cycled ON or OFF.

All (Lock & Unlock) - Doors lock when ignition is turned on and unlock when ignition is turned off.

Lock Only - Doors lock when ignition is turned on

Unlock Only - Doors unlock when ignition is turned off.

OFF - Door locks not activated by ignition.

11 - DK BLUE Wire Output: This feature controls the type of output for the DK BLUE wire. Setting this feature to ITS Function will change the functionality of the entire system, refer to ITS functionality of the install guide.

Trunk - 1 second pulsed output.

ITS Function - ITS function, warn-away and full trigger.

ITS Function, Warn Away Disabled - ITS function with full trigger only

12 - Disarm Input 2 Polarity: Select the input polarity as positive or negative.

13 - Horn Output Timing: Control the minimum horn pulse time in milliseconds, some vehicle will require a longer pulse to activate the factory horn.

10mS 16mS 30mS 40mS 72mS

14 - Real Panic Sound: Controls the horn output when the system is triggered.

ON - Randomized horn honks when panic/security is triggered.

OFF - Standard pattern horn honks when panic/security is triggered.

15 - Orange Wire Output: Controls the output of the orange wire. This wire will either supply a (-) output when armed OR disarmed.

(-) Armed Output - Supplies a constant negative out while the system is armed

(-) Disarmed Output - Supplies a constant negative out while the system is disarmed

16 - Arming Delay: Control the type of arming; standard, delayed or armed with vehicle remote started.

OFF - No delay when arming, normal security functionality.

45 Seconds - Delays the arming process for 45 seconds when armed using the ARM/DISARM INPUTS, during this time the system will be disarmed if the ignition is turned ON. No delay is added if using an aftermarket transmitter to arm the system

Factory R/S Option - For use with vehicles with a FACTORY INSTALLED Remote Start. If the ignition comes on within 6 seconds of arming the system, the system will ignore ALL security inputs until 5 seconds after ignition clears OR any remaining inputs clear after ignition has cleared.

17 - GREEN/WHITE Output Wire: Controls the GREEN/WHITE output type.

Illuminated Entry - Supplies a constant output for 1 minute.

Factory Disarm - Single 1 second pulsed output upon disarming the system.

18 - Lot Alert: Available in Lot Mode only - Toggle Lot Mode notification chirps ON/OFF.

OFF - No notification chirps

ON - 5 short low volume chirps each time the ignition is turn ON.

19 - Lot Mode Passive Arming Timers; TX Disarm / Ignition: Available in Lot Mode only - Change the passive arming timers when the system is unlocked or the ignition is turned on.

5 / 30 Minute - 5 minute timer when doors have been unlocked / 30 minute timer after the ignition has been turned OFF.

1 / 1 Minute - 1 minute timer when doors have been unlocked / 1 minute timer after the ignition has been turned OFF.

ADDITIONAL FEATURES

Arm System with Shock Sensor Bypassed (Aftermarket TX only)

1. Press Lock button to arm system
2. Within 5 seconds press the Trunk OR Find/Panic button. Parking Lights/Horn will flash/chirp 2 times.

Attempted Intrusion Identification

Pressing UNLOCK after a full 30 second trigger cycle has completed, the horn will honk 4 times and the LED will flash a number of times to indicate which input triggered the alarm. Turning on the ignition or pressing the valet/override button will reset the LED flashes, pressing the valet/override button will also honk the horn to match the LED flashes before it is reset.

Number of flashes:

- 1 - Interior Theft Sensor (Shock Sensor)
- 2 - Door Input
- 3 - Hood Input
- 4 - Trunk Input
- 5 - Ignition

Valet Mode - Consumer Modes Only

To engage valet mode:

1. Turn the ignition key ON.
2. Press and hold the valet button until the LED status light turns on solid indicating that the system is in valet mode.
3. Release the valet button.
4. When valet mode is activated all security functions will be disabled.

To disengage valet mode:

1. Turn the ignition key ON.
2. Press and hold the valet button until the LED status light turns off indicating that the system has exited valet mode.

Deleting Arm / Disarm notification chirps

1. Turn the ignition ON then OFF.
2. Press and release the valet button 3 times. The system will respond with 1 chirp for ON or 2 chirps for OFF.

Dome Light Delay/Theater Lighting Programming

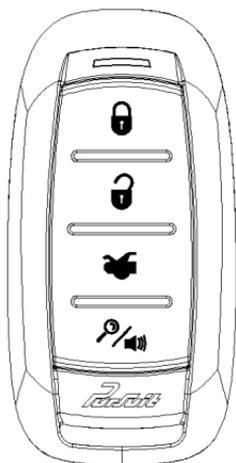
The system can be programmed to delay arming after the lock button is pressed (60 second max) for vehicles with a dome light delay or theater dimming feature. Once programmed the system will 'learn' the timing of the dome light delay and add 2 seconds before arming.

1. Close all doors with ignition off.
2. Using the transmitter press LOCK, UNLOCK, LOCK ,UNLOCK, LOCK , UNLOCK, LOCK. The LED will light solid to indicate the system has entered DOME DELAY LEARN MODE.
3. Immediately OPEN then CLOSE the door WITHOUT disarming the system. The system will then monitor the door trigger wire. Once the dome light turns off, the system will then add 2 seconds and then exit the learning mode.
4. The LED will begin to flash indicating the system has exited the learning mode and is now armed.

AFTERMARKET TRANSMITTER FUNCTIONS

| System Function | Lot Mode ACM Keypad TX | Consumer Mode Aftermarket TX | Operation Method |
|--|-----------------------------------|---|---|
| Lock Doors / Arm System | Lock | Lock | Press and Release |
| Unlock / Disarm (consumer Mode) | | Unlock | Press and Release |
| Unlock / Unlock 2 / Disarm (Lot Mode) | Unlock | | Press and Release |
| 2 Step Unlock | | Unlock | Press and Release 2 times (within 5 sec) Unlock & Unlock 2 activate at the same time |
| Trunk | | Trunk | Push and Hold (2 Sec) |
| Trunk / Disarm | Unlock | | Push and Hold (2 Sec) |
| Car Finder (Progressive) | Find/Panic | Find/Panic | Press and Release, 3 volume levels for Chirp - 1st press - Low (within 3 sec of 1st press) 2nd press - Medium (within 3 sec of 2nd press) 3rd press - Loud |
| Panic | Find/Panic | Find/Panic | Push and Hold (1 Sec) |
| Shock Bypass | | Lock - Trunk -or- Lock - Find/Panic | Press and Release Lock then within 5 sec. Press Trunk -or- Press and Release Lock then within 5 sec. Press Car Find |

PLTX4



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Customer Service 1-800-225-6074
WWW.CODE-ALARM.COM

FCC COMPLIANCE

This device complies with Part 15 of the FCC rules and with RSS-210 of Industry Canada. 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 any interference that may cause undesired operation.

Warning!

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