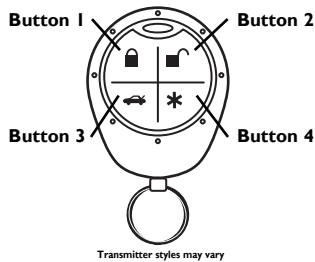


# 1 RELAY / 4 BUTTON SERIES VEHICLE SECURITY SYSTEM



## Standard Features:

Two 4-Button Remote Transmitters  
 Status indicator (LED)  
 Valet / override switch  
 Multi-tone siren (115dB)  
 Dual stage impact detector  
 Flashing parking lights  
 Remote panic  
 Remote sensor bypass  
 Passive or active arming  
 Anti-carjacking mode

## Optional Features:

Starter disable  
 Keyless entry  
 Auxiliary Function  
 2nd Auxiliary Function  
 Remote trunk or hatch release  
 Illuminated entry  
 Hood and trunk protection  
 Remote auto start  
 Power window roll up  
 Back-up battery w/charging circuit  
 Perimeter sensor

**Note:** Some features may require additional parts and labor, and may not be appropriate for certain vehicles. Consult your authorized dealer.

## System Operation

### ARMING OPERATION

To arm the system press transmitter button 1:

- The siren will chirp once.
- The parking lights will flash once.\*
- The doors will lock.\*
- The LED will start flashing within 5 seconds and the system will be armed.

After Arming, if a bad sensor or an open zone is detected, the siren will chirp and the parking lights will flash 4 times to indicate a zone is open. The system will ignore that input, keeping all other areas protected.

While Armed, the system will trigger if:

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

When triggered, the siren will sound and the parking lights will flash\* for 50 seconds.

If the same input triggers the system 3 times during a single arming cycle, the system will bypass that input, keeping other zones protected, until the next arming cycle.

If the shock sensor detects a light impact to the vehicle, the siren will chirp and the parking lights will flash 3 times to warn away the potential intruder.

\*Optional Feature

### PASSIVE ARMING

The passive arming feature allows the system to arm itself automatically without user intervention. The Passive Arming feature may be enabled during installation.

To arm the system passively:

1. Turn the ignition key off.
2. Exit the vehicle and close all doors.
  - The LED flashes rapidly indicating that the system is preparing to arm.
  - The siren will chirp 30 seconds after the last door is closed to indicate the system is now armed.
  - The doors will lock.†\*

† If Passive Locking was enabled during installation.

### DISARMING OPERATION

To disarm the system press button 1 again (or button 2 on 4-button systems).

- The siren will chirp twice.
- The parking lights will flash twice then remain on for 10 seconds.\*
- The doors will unlock.\* If using the Driver Priority unlock feature only the driver door will unlock. Press button 2 again to unlock all doors.
- The dome light will turn on for 30 seconds.\*

### TAMPER ALERT

If the alarm was triggered while away, the siren will chirp and the parking lights flash 3 times on disarm for tamper indication.

### SILENT ARMING/DISARMING

Press buttons 1&2 then button 1 or 2 to Arm or Disarm for one-time silent operation. The system can also be programmed for full-time silent operation during installation.

### IGNITION CONTROLLED LOCKS\*

The ignition locks feature automatically locks and unlocks the doors when the ignition is cycled on or off. To avoid locking keys in the vehicle, the ignition locking feature will be cancelled if a door is open when the ignition is turned on. *This feature may be disabled during installation.*

### REMOTE PANIC

In the event of an emergency, the system's siren can be triggered for 60 seconds to attract attention. To activate the Panic Feature, press transmitter Button 1 for 3 seconds:

- The siren will sound.
- The parking lights will flash\*.

Press button 1 again to exit panic mode. For 4-button systems press button 1 or 2 to exit panic mode (pressing button 2 will unlock the doors and disarm the system). The Panic Feature will not operate when ignition is on.

\*Optional feature

### EMERGENCY OVERRIDE

If the transmitter becomes lost or fails to operate, the system can be disarmed by using the emergency override feature.

To override the system:

1. Enter the vehicle.
  - Because the system is armed, the siren will sound.
2. Turn on the ignition key.
3. Press the Valet switch for 5 seconds.
  - The siren will stop sounding.
  - The starter defeat will be bypassed.
  - The system will enter valet mode.

### VALET MODE

When the system is placed into the Valet Mode the security system will be disabled. However, the optional keyless entry and trunk release features will still function.

To enter or exit valet mode:

1. Be sure the system is disarmed.
2. Turn the ignition key on.
3. Press and hold the valet switch for 5 seconds.
  - The siren will chirp 5 times to enter valet or twice for exit.
  - The LED will turn on solid indicating

the system is in valet mode, or turn off indicating valet mode exit.

#### **OPTIONAL TRUNK RELEASE**

Press button 3 for approximately 3 seconds to open the trunk.

#### **OPTIONAL 2ND AUX/CAR FINDER**

Press button 4 for approximately 3 seconds to activate the second auxiliary output/car finder feature. When second auxiliary function is activated, the parking lights will flash 5 times and the siren will chirp as confirmation. This output can be connected to a relay to control additional functions like power window roll-up, or an optional device such as a remote car starter. If the output is not connected, it still serves as a car finder feature to identify the vehicle in a large parking area.

#### **OPTIONAL ANTI-CARJACK MODE**

For added security while driving the vehicle, the optional anti-carjacking feature will activate whenever a door is opened after the ignition has been turned on. *This feature must be enabled during installation.*

If the anti-carjack feature is triggered:

- The system will provide no indications for 60 seconds.
- After 60 seconds, the siren will chirp for 10 seconds providing time to press the valet switch and deactivate the system.
- If not deactivated with 10 seconds, the system will enter full trigger mode.
- The parking lights will flash and the siren will sound in full alarm.
- The starter defeat will turn on and until the anti-carjack mode is deactivated.

To deactivate the anti-carjack when triggered:

1. Turn the ignition key off then back on.
2. Press the valet switch once.
  - The siren will pause briefly.
3. Turn the ignition key off.
4. Press the transmitter button 2.
  - The system will disarm.

#### **LED INDICATIONS**

On Solid = Valet Mode  
On Solid when not in valet = Open Zone  
Slow Flash = System Armed  
Rapid Flash when disarmed = Passive Arming  
Rapid Flash when armed = Tamper Alert

#### **PARKING LIGHT INDICATIONS**

1 Flash = System Armed  
2 Flashes then on solid for 10 seconds = System Disarmed  
3 Flashes = Tamper Alert  
4 Flashes = Open Zone Indication (after arming)

## Installation Instructions

### Before you begin the installation

- Read the INSTRUCTIONS!
- Always use a multi-meter verify wiring.
- Before mounting the product, verify with the customer the desired location for the valet switch and LED.
- Protect the vehicle using fender covers.
- Always look before drilling. Make sure you will not cause damage to vehicle hoses, electrical looms or physical damage to vehicle.

### Mounting System Module

Mount the system module under the dash where it will be difficult for a thief to locate, and away from moving parts.

### Mounting Siren

Mount the siren in a suitable place under the hood, away from hot and moving engine parts such as manifolds, fan belts, etc. Make sure the siren cannot be accessed from underneath the vehicle or through the grill. Face the siren down so that water cannot accumulate inside the siren bell. Protect wires running through the engine compartment using split loom tubing. If a new hole is needed, protect the wire from chaffing by installing a grommet.

### 14-Pin Main Harness:

- WHITE WIRE - Parking Light output (+/-) 10A relay. Connect to the vehicle's parking light wire. If the circuit exceeds 10 amps a relay is required. For vehicle's with independent left and right parking light circuits, the wires must be connected using diodes to keep the circuits separate. For negative (-) trigger vehicles, move the

internal jumper next to the relay as shown on the back page diagram. NOTE: Do not connect to the headlight circuit.

- BLACK WIRE - Ground input (-). Connect to a solid chassis ground that is clean and free of paint or dirt.
- RED WIRE - +12V Battery input. Connect the red fused wire on the main harness to a constant +12V source. This wire should be at least a 15 amp supply.
- BROWN WIRE - Siren wire output (+) 2A. Connect to the siren's red wire. Connect the siren's black wire to ground.
- GRAY WIRE - Auxiliary 1 output (-) 500mA. Connect to a relay for an optional feature such as trunk release, etc.
- WHITE/BLUE WIRE - Auxiliary 2 output (-) 500mA. Connect to a relay or module for an optional feature such as power window roll-up, etc.
- ORANGE WIRE - Armed Output (-) 500mA. Connect to a relay for optional starter defeat (See wiring diagram). The ORANGE wire provides a ground when armed to activate a starter disable relay or other device (i.e. window module, etc.).
- BLACK/WHITE WIRE - Dome Light output (-) 500mA. Connect to an optional relay to activate the vehicle's dome light.
- WHITE/GREEN WIRE - Passenger Unlock output (-) 500mA. Connect to a relay to unlock the passenger doors when wired for Driver Priority Unlocking.
- BLUE WIRE - Trunk/Hood trigger (-). Connect the Blue wire to the trunk and/or optional hood pin switches. The switch must provide ground when opened.
- GREEN WIRE - Negative door trigger (-). Connect to the door switch circuit wire that

shows ground when the door is open.

- **VIOLET WIRE** - Positive door trigger (+). Connect to the door switch circuit wire that shows +12V when the door is open. This type of circuit is common on Ford vehicles.
- **YELLOW WIRE** - +12V Ignition input. Connect to a main ignition wire at the ignition switch harness. This wire shows +12V when the ignition is on and while cranking. The voltage must not drop when the car is starting.

**NOTE:** Do not connect the alarm module until the installation is complete. Turn on the ignition first, then plug in the 9-pin harness followed by the 3-pin large harness so the alarm will power up in the disarm state. If the alarm is plugged in without the ignition on, it will automatically power up in the alarming state.

**Plug in Connectors**

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

**2-Pin Blue Connector:** Plug-in port for valet switch. Mount switch in an area accessible from the driver's seat.

**3-Pin Large White Door Lock Connector:** Plug-in connector for door lock harness or

optional door lock relay module.

- **BLUE WIRE** - unlock output (-) 500mA.
- **RED WIRE** - not used.
- **GREEN WIRE** - lock output (-) 500mA.

**3-Pin Small White Connector:** Plug-in port for dual stage shock sensor.

**Automatic Output Circuit Breaker**

When any (-) output is connected to (+) constant in error, the system detects the short circuit automatically and shuts down that output until the error is corrected and ignition reset (on-off) is performed. While the short circuit is detected, the siren will chirp 4 times and the park lights will flash 4 times during arm and disarm. LED will continue to flash 2-9 times depending on the output shorted until ignition reset is performed (In both arm and disarm mode).

**SHORT CIRCUIT LED INDICATIONS**

- 2 Flashes = Lock Output
- 3 Flashes = Unlock Output
- 4 Flashes = Auxiliary Output
- 6 Flashes = Starter Defeat Output
- 7 Flashes = Dome Light Output
- 8 Flashes = Auxiliary 2 Output
- 9 Flashes = Passenger Unlock Output

**Programmable Features**

<b>Function</b>	<b>Buttons</b>	<b>1 Chirp</b>	<b>2 Chirps</b>
Shock Sensor	3-3-1	Off	<b>On</b>
Arming Chirps	2-1-1	Silent	<b>Normal</b>
Ignition Locking	1-3-2	Off	<b>On</b>
Door Lock Pulse Length	1-3-1	3 Seconds	<b>.75 Second</b>
Door Unlock Pulse	2-2-1	Double	<b>Single</b>
Passive Locking	3-3-2	Off	<b>On</b>
Arming Mode	1-2-3	<b>Active</b>	Passive
Anti-Carjack Activation	2-1-3	<b>Disabled</b>	Enabled

\*default settings in **bold**

### Entering Programming

To enter System Programming:

1. Turn on ignition.
2. Within 5 seconds, press valet switch 5 times.
  - The siren will chirp, to indicate entering program mode.
3. Press the transmitter buttons shown to change the desired feature.
  - The siren will chirp once or twice to indicate the setting.
4. Repeat the programming sequence to change other selections.
5. Turn off ignition to save changes.

### Complete Default Reset

Following this procedure will set all programmable features to default settings.

1. Enter System Programming.
2. Press Transmitter Button 3 three times.
  - The siren will chirp 3 times indicating all programmable features are reset to factory default settings.
5. Turn off ignition.

### Programmable Features

**Shock Sensor.** Selects whether or not the shock sensor will trigger the alarm.

**Arming Chirps.** Select Normal or Silent.

**Ignition Locking.** Automatically locks and unlocks the doors with the ignition. The system will not lock the doors if any door is open when the ignition is turned on.

**Door Lock Pulse Length.** Sets the lock pulse length for normal (.75 second) or vacuum locking systems (3 seconds).

**Door Unlock Pulse.** Selects between a single and double unlock pulse.

**Passive Locking.** Allows the doors to

automatically lock with Passive Arming.

**Arming Mode.** Select either manual arming (Active) or automatic arming (Passive).

**Anti-Carjacking Activation.** Enables or disables the anti-carjacking feature.

### Test System

Arm and disarm system, checking that the siren chirps and parking lights are functioning normally, as well as Passive Arming and Emergency Override. Make sure that the programmed features are performing correctly.

Test the doors and hood/trunk inputs making sure all doors trigger the system.

Test the starter defeat feature (if installed).

Adjust the shock sensor.

Tie up wires, and replace any dash panels.

Make sure the customer knows the location of the valet/override switch.

### Adding Transmitters

To add a new transmitter to the system have the desired transmitters ready and follow the Code Learning sequence.

To enter Code Learning Mode:

1. Turn the ignition on, off, on, off and leave on.
  - The siren will chirp once.
2. Press the Valet switch for 5 seconds.
  - The siren will chirp 3 times.
3. Press the transmitter's Lock Button.
  - The siren will chirp once.
4. Repeat step 3 for each additional transmitter (max 3).
5. Turn off the ignition.
  - The siren will chirp once.

*NOTE: If a transmitter is lost or stolen, make sure to code all 3 transmitter memory*

locations. (Example: If only one transmitter is used, repeat step 3 two times to remove any previously programmed transmitters.)

**Two Car Operation**

Two cars with the same system can be operated using a single transmitter. To program Two Car operation, get both of Car 2's transmitters and a transmitter for Car 1 and follow the steps below.

1. Follow steps 1 and 2 for Adding Transmitters
2. Press the Lock Button on Car 2's first transmitter.
  - The siren will chirp once.
3. Press the Lock Button on Car 2's

second transmitter.

- The siren will chirp once.
4. Press Button 4 on Car 1's transmitter.
    - The siren will chirp once.
  5. Turn off the ignition.
    - The siren will chirp once.

Car 2 will operate normally with both it's transmitters and can now be operated using Car 1's transmitter as follows:

Car 2 arm- Press buttons 1&4 together on Car 1 transmitter.

Car 2 disarm- Press buttons 2&4 together on Car 1 transmitter.

Car 2 auxiliary 1 feature- Press buttons 3&4 together on Car 1 transmitter.

