



## SNIPER X2 VEHICLE SECURITY SYSTEM

### Installation Manual

#### 1. INSTALLATION

##### 1.1. Arm Condition Memory

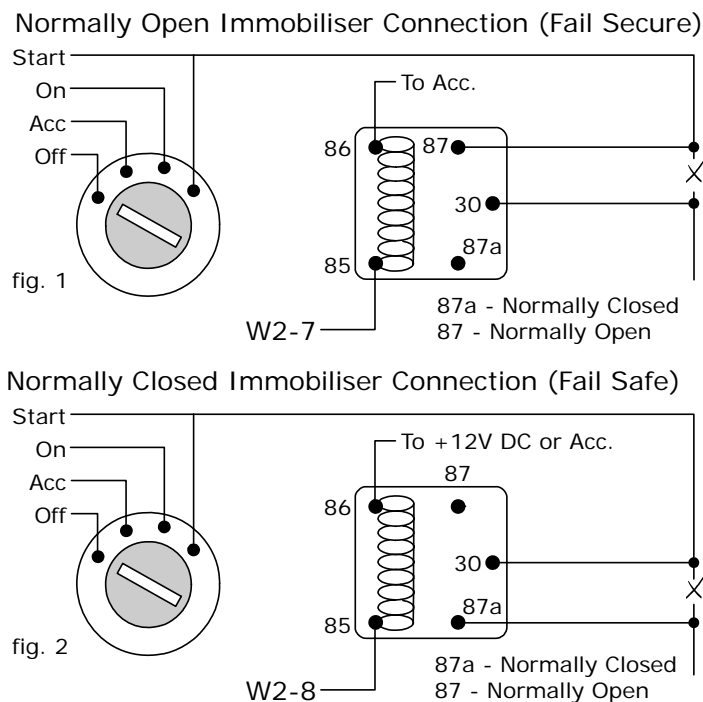
If power to the alarm is removed it will remain in the same status when power is restored.

##### 1.2. Immobiliser Relay Wiring

The system offers two ways of wiring the immobiliser as shown below.

When wired for Normally Open the immobiliser relay is switched on when the alarm is disarmed (fail secure). When wired as Normally Closed the relay is on when the alarm is armed (fail safe).

#### Wiring Diagram - Immobiliser Relay NO & NC



##### 1.3. Programming New Remote Controls

The included remote controls have been programmed to the system in the factory. Follow the procedure below to program a new remote control to the system:

- Turn the ignition on with the system disarmed.
- Within 10 seconds, press valet switch 6 times.
- The siren sounds for 2 sec. to confirm the system is now in code learning mode.
- Within 10 sec., press any button of 1<sup>st</sup> remote control  
The siren will sound for 1 sec. and hazard lights flash twice to confirm the 1<sup>st</sup> remote has been programmed to the system and all the previous codes in the system will be erased entirely.
- Within 10 sec., repeat for the 2<sup>nd</sup> remote control and again for 3<sup>rd</sup> and 4<sup>th</sup> remotes as applicable.
- \* Up to 4 remotes can be programmed to the system
- \* The system will leave the code learning mode after programming 4 remotes to the system and the siren will sound for 2 seconds to confirm.
- \* If no buttons are pressed within 10 seconds, the system will leave the learning code mode and the siren will sound for 2 seconds to confirm.
- \* The system will leave the code learning mode if the ignition is turned off at any time and the siren will sound for 2 seconds to confirm.

**1.4. Bypass Input (red/black wire: w3-7)**

This wire is designed for external engine start module or turbo timer. Feed this wire with ground when the external engine start module or turbo timer is activated and the system will bypass the ignition input and shock sensor until the ground pulse is removed.

**1.5. Start Output (pink wire: w3-9)**

Press and hold button #4, 3 sec. later the system will send a 1 sec. pulse to activate the external engine start module. Pressing button #4 for 3 sec. will send the pulse again to deactivate the external engine start module.

**1.6. Interior Light Supervision (green/white wire: w3-6)**

If connected:

- The interior light will be turned on for 20 sec. when disarming unless the ignition is turned on.
- The interior light will be turned on all the time whilst the alarm is sounding.

**1.7. Program the Optional Features (default=1 chirp)**

Follow the steps below to program the Optional Features:

**For example: To program the feature #5 as 15sec.**

- Turn the ignition on then off with the system disarmed.
- Within 10 sec., press the valet switch 3 times.
- The system enters the programming mode and the siren and LED will be on for 2 sec. to confirm.

\* To Reset to Factory Default:

Within 10 seconds press button #4 for 3 sec., all the optional features will be reset to the factory default and the siren will sound for 2 sec. to confirm leaving the programming mode.

- Within 10 sec., press the valet switch 5 times.
- 1 sec. later the siren will chirp 5 times to confirm.
- Press button #1 of the remote control 6 times to select 15 sec. and the siren will chirp 6 times to confirm the setting.
- Press the valet switch again (from 1 to 21) within 10 sec. to select the next feature for programming.
- \* The system will leave the programming mode and the siren will sound for 2 sec. to confirm if the ignition is turned off at any time during programming or if the valet switch or remote control button #1 has not been pressed within 10 sec.

**1.8. Optional Programmable Features**

No	Chirp	Function	1 Chirp	2 Chirp	3 Chirp	4 Chirp
1	1 chirp	Chirp Confirmation	On	Off		
2	2 chirp	Door Lock with Passive Arming	Disable	Enable		
3	3 chirp	Ignition Lock	Disable	Ignition	Brake	
4	4 chirp	Ignition Unlock	Disable	Driver	All	
5	5 chirp	Door Lock Time(sec.)	1) 0.8	2) 3.6	3) 0.8*2	4) 0.8+15
				5) 0.8+40	6) 15	7) 40
6	6 chirp	Door Unlock Time(sec.)	0.8	3.6	0.8*2	
7	7 chirp	Door Unlock with Disarming	Driver	All		
8	8 chirp	Siren/Horn Output	Siren	Horn		
9	9 chirp	Alarm Condition Cycle Duration	30 sec.	60 sec.		
10	10 chirp	Interior Light Delay	Disable	25 sec.	40 sec.	60 sec.
11	11 chirp	Auto. Rearming	Disable	Enable		
12	12 chirp	Auto. Engine Disable(AED)	Disable	Enable		
13	13 chirp	Door Open Alerts	Disable	Mode 1	Mode 2	
14	14 chirp	Total/Comfort Closure	Disable	15 sec.	30 sec.	40 sec.
15	15 chirp	Disarm with Boot Release	Disable	Enable		
16	16 chirp	Anti-hijacking Countdown	30sec.	60sec.		
17	17 chirp	Activate Anti-hijacking Countdown	Normal	Brake		
18	18 chirp	Anti-hijacking by Remotes	Disable	Enable		
19	19 chirp	Anti-hijacking by Ignition+ Door	Disable	Enable		
20	20 chirp	Override Code	Flash 1		Flash 2-10	
21	21 chirp	Hazard lights Output	Normal	Pulse	Continuous	

**Factory Default = 1 Chirp**

**1.9. Feature #20 Override Code (default=1 flash)**

Follow the steps below to program:

- Turn the ignition on then off with the system disarmed.
- Within 10 sec., press the valet switch 3 times.
- The system enters the programming mode and the siren and LED will be on for 2 sec. to confirm.
- Within 10 seconds press the valet switch 20 times to select feature #20
- 1 sec. later the siren will chirp 20 times to confirm the selection.
- The LED will start to flash 10 times slowly 2 sec. later.
- Press button #1 of remotes after the LED has flashed the number of times you want to set the code to; Eg. If you want to choose 6 as the code then press button #1 once after the LED has flashed 6 times. The LED will turn off and siren sound for 1 sec. to confirm.
- Press the valet switch within 10 sec., to select the next feature for programming.

## 1.10. Explanation of the Optional Features

### 01. Chirp Confirmation On/Off(default=on)

When On:

The siren will chirp once for system arming and twice for disarming. With this feature on, the silent arm/disarm button is still functional.

When Off:

The siren will not chirp for system arming and disarming but the hazard lights will flash as normal.

### 02. Door Lock with Passive Arming(default=disable)

When Enabled:

The doors will also be locked when the system passively arms itself.

### 03. Ignition Lock (default=disabled)

When set as Ignition:

- The doors will be locked 15 sec. after turning the ignition on if all the doors are closed properly.
- The doors will not be locked if a door is not closed or has been opened during the 15 sec. countdown.
- If the doors are unlocked during driving they will be locked again automatically after stepping on the brake pedal. (Brake light wire must be connected).

When set as Brake: (Brake light wire must be connected)

- The doors will be locked when the brake is tapped with the ignition on if all the doors are closed properly.
- If the doors are unlocked during driving they will be locked again automatically after stepping on the brake pedal.

### 04. Ignition Unlock(default=disable)

When set as Driver:

After parking the car the drivers door will be unlocked when turning the ignition off.

When set as All:

After parking the car all the doors will be unlocked after turning the ignition off.

### 05. Door Lock Time (default=0.8)

When set as 0.8 sec.:

The system will send a 0.8 sec. pulse when locking the doors.

When set as 3.6 sec.:

The system will send a 3.6 sec. pulse when locking the doors.

When set as 0.8 sec.\*2:

The system will send two 0.8 sec. pulses when locking the doors.

When set as 0.8 sec. + 15 sec.:

The system will send a 0.8 sec. pulse and then send a 15 sec. pulse when locking the doors.

\*When selecting 0.8 sec. + 15 sec. for cars with total closure the windows will be closed automatically during remote arming without enabling feature #14.

When set as 0.8 sec. + 40 sec.:

The system will send a 0.8 sec. pulse and then send a 40 sec. pulse when locking the doors.

\*When selecting 0.8 sec. + 40 sec. for cars with total closure the windows will be closed automatically during remote arming without enabling feature #14.

When set as 15 sec.:

The system will send a 15 sec. pulse when locking the doors.

\*When selecting 15 sec. for cars with total closure the windows will be closed automatically during remote arming without enabling feature #14.

When set as 40 sec.:

The system will send a 40 sec. pulse when locking the doors.

\*When selecting 40 sec. for cars with total closure the windows will be closed automatically during remote arming without enabling feature #14.

### 06. Door Unlock Time (default=0.8 sec.)

When set as 0.8 sec.:

The system will send a 0.8 sec. pulse when unlocking the doors.

When set as 3.6 sec.:

The system will send a 3.6 sec. when unlocking the doors.

When set as 0.8 sec.\*2:

The system will send two 0.8 sec. pulses when unlocking the doors.

#### 07. Door Unlock with Disarming (default=driver)

When set as Driver:

Only the drivers door will be unlocked when pressing button #2 to disarm the system. Pressing button #2 again within 3 seconds will unlock the rest of the doors.

When set as All:

All the doors will be unlocked when pressing button #2 to disarm the system.

#### 08. Siren/Horn Output (default=siren)

When set as Siren:

Select the Siren option when connecting an external siren.

When set as Horn:

Select the Horn option when connecting the output to the cars horn. Note a relay **must** be used.

#### 09. Alarm Condition Cycle Duration (default=30 sec.)

When set as 30 sec. or 60 sec.:

The siren will sound for 30 sec. (or 60 sec) when the system is triggered and released. The siren will sound for 30 sec. (or 60sec) x 3 cycles if the system is triggered continuously.

#### 10. Interior Light Delay (default=disable=5 sec.)

When set as Disable (=5 sec.):

The siren chirps 3 times and the hazard lights flash 3 times immediately if any of the doors, boot or bonnet are not closed properly when remote arming the system. The relevant input will be bypassed until the door/boot/bonnet is closed.

When set as 25-40-60 sec.:

The siren chirps 3 times and hazard lights flash 3 times immediately when remote arming the system if the boot or bonnet are not closed properly. The boot & bonnet will be bypassed until both are closed properly.

The siren chirps 3 times and hazard lights flash 3 times in 25sec.(or 40, 60sec.) after remote arming the system if the doors are not all closed properly. The doors will be bypassed until they are all closed properly.

#### 11. Auto. Rearming (default=disable)

When set as Enable: The system will arm itself again automatically 30 seconds after disarming the system if no doors are opened. Opening a door after disarming the system will deactivate the auto rearming feature.

#### 12. AED, Auto Engine Disable (default=disable)

When as Enable: After parking the car, turning the ignition off and opening and then closing the door the engine disable relay will activate within 10 seconds but the system will still be disarmed.

- The 10 sec. countdown will be interrupted immediately when opening a door, the countdown will restart when the door is closed.
- Pressing the remote to arm the system during the 10 sec. countdown will activate the AED immediately.
- To deactivate the AED:
  - a) With the system disarmed, remote arming the system then disarming will deactivate the AED at the same time.
  - b) With the system armed, remote disarming the system will deactivate the AED at the same time.
  - c) By override (when the system is disarmed).
- \* The AED will not active under valet mode. To disable the AED you must leave the valet mode.
- \* When the AED is activated, the system cannot enter the following modes:
  - a) Code Learning
  - b) Programming Mode
  - c) Hazard lights Calibration Mode
  - d) Anti-hijacking

#### 13. Door Open Alerts (default=disable)

When set as Mode 1:

- The hazard lights will flash when a door is opened with the ignition on until the door is closed or the ignition is turned off.
- \* The feature will not be activated if the door is opened whilst the ignition is on.

When set as Mode 2:

- The hazard lights will flash when a door is opened regardless of whether the ignition is on or off and until the door is closed.
- \* The feature will be activated regardless of whether the ignition is turned on or off.

#### 14. Total/Comfort Closure (default=disable)

The CH3 wire is designed for the option of automatically closing the windows when arming the system. This feature requires that the vehicle has Total/Comfort Closure.

When set as Disable:

The CH3 output will not be activated when arming the system but can be controlled as follows:

- With system armed or disarmed.
- Press and hold button #1+3.
- After 1 sec. the CH3 output will be activated until button #1 is released.

When set as 15, 30 or 40 sec.:

When arming the system the CH3 will send a 15 sec.(or 30, 40) pulse to close the windows automatically. Pressing the remote to disarm the system during the 15 sec.(or 30, 40) will deactivate the CH3 output immediately.

#### 15. Disarm with Boot Release (default=disable)

When set as Disable:

When operating the remote boot release the system will remain armed but the shock sensor will be bypassed. The boot will be protected and shock sensor reactivated 3 sec. after closing the boot.

When set as Enable:

The system will be disarmed when operating the boot release, the siren will chirp twice and hazard lights flash twice to confirm.

- \* The countdown of Auto. Rearming or Passive Arming will be interrupted when operating the boot release.
- \* The remote boot release will still work with the ignition on.

#### 16. Anti-hijacking Countdown (default=30sec.)

When set as 30 or 60 sec.:

The system will enter the Anti-hijacking mode after 30 or 60 sec. depending on the selection. The siren will chirp 10 times before entering into the anti-hijacking mode as a last warning.

#### 17. Activate Anti-hijacking Countdown (default=normal)

When set as Normal:

The countdown will start immediately when activating the anti-hijacking feature.

When set as Brake:

The system will enter the Anti-hijacking mode after the footbrake is tapped.

- \* After the system starts the countdown, press the valet switch before the last 10 chirps warning to stop the countdown and deactivate the anti-hijacking.

#### 18. Anti-hijacking by Remotes (default=disable)

When set as Enable:

The Anti-hijacking will be activated as follows:

- With the system disarmed and the ignition on.
- Press button #1 for 2 sec. to activate the anti-hijacking and the hazard lights flash once to confirm.
- The anti-hijacking countdown will start depending on the selection of feature #17. The LED will flash every 2 secs. once the countdown starts.
- After 30 or 60 sec. depending on the selection of feature #16, the system enters the Anti-hijacking mode. 10 sec. before the countdown ends, the siren and hazard lights will activate as a warning.
- When the system is in anti-hijacking mode, the siren will sound and hazard lights flash until the system is overridden using the emergency override procedure.

#### 19. Anti-hijacking by Ignition+Door (default=disable)

When set as Enable:

The Anti-hijacking will be activated as follows:

- With the system disarmed and the ignition on.
- Opening and closing a door will activate the anti-hijacking and the hazard lights will flash once to confirm.
- The anti-hijacking countdown will start depending on the selection of feature #17. The LED will flash every 2 secs. once the countdown starts.
- After 30 or 60 sec. depending on the selection of feature #16, the system enters the Anti-hijacking mode. 10 sec. before the countdown ends, the siren and hazard lights will activate as a warning.
- When the system is in anti-hijacking mode, the siren will sound and hazard lights flash until the system is overridden using the emergency override procedure.

#### 20. Override Code (default= flash 1)

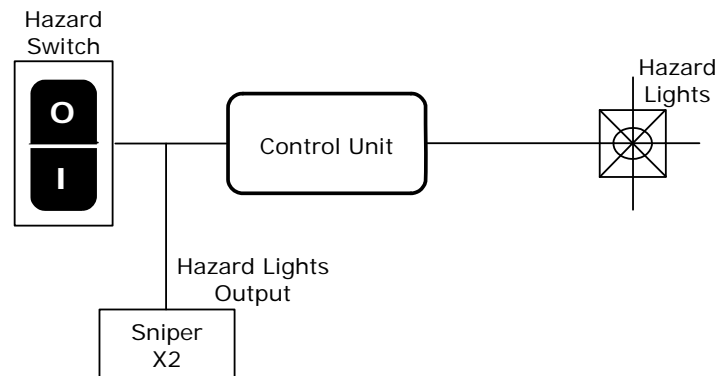
- Follow [Section 1.9](#) to change the Override Code.
- Follow [Section 2.6b](#) of the user manual to operate the Override.

## 21. Hazard lights Output (default=normal)

When set as Normal:

Connect the hazard lights output as normal using the Y-splitter lead.

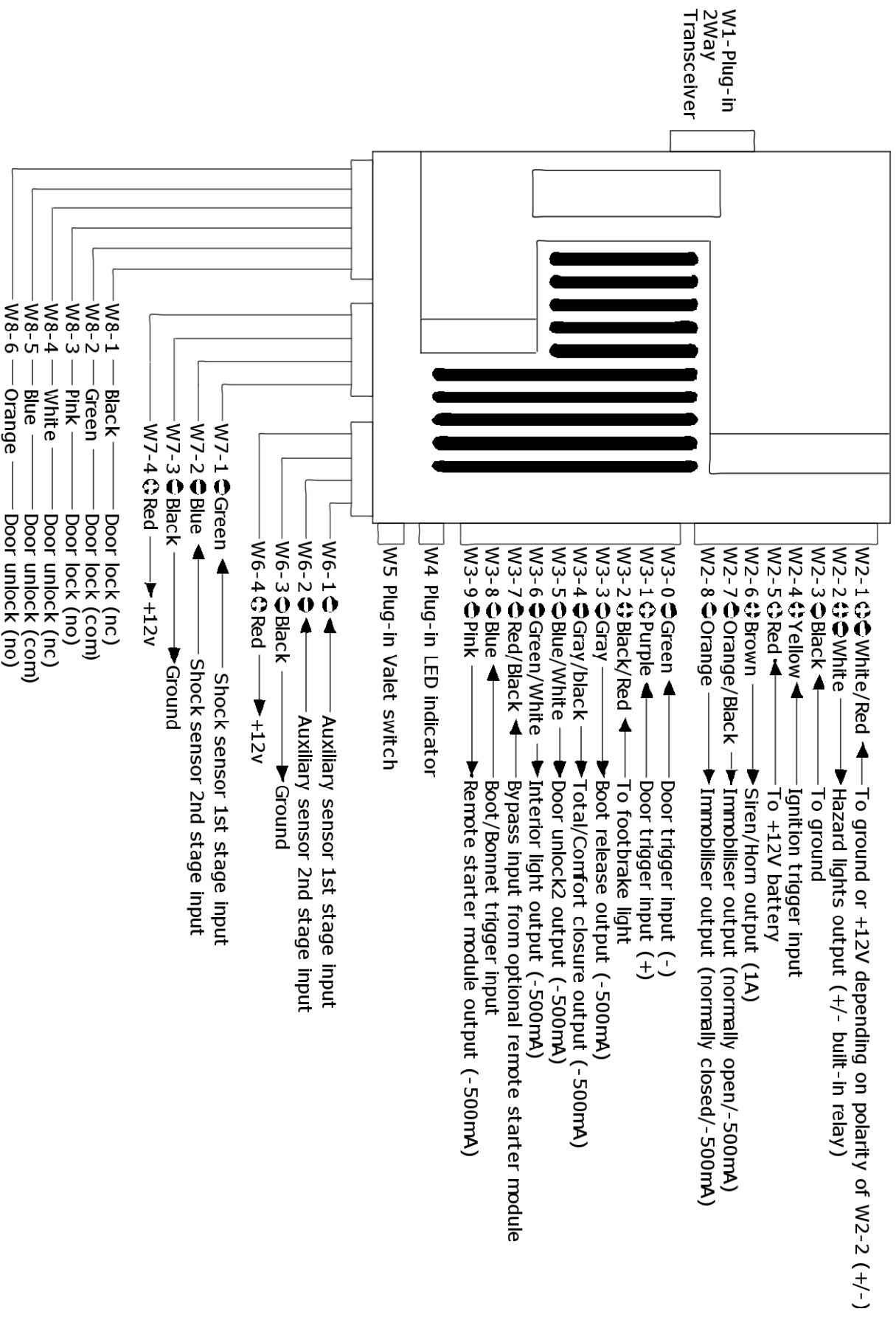
If the Normal connection does not work then connect the hazard lights output to the hazard switch as shown below and set feature #21 as Pulse or Continuous depending on the type of hazard switch



When selecting Pulse or Continuous, try the factory default first (0.5sec). If the hazard lights do not flash as expected proceed to the hazard light learning as follows:

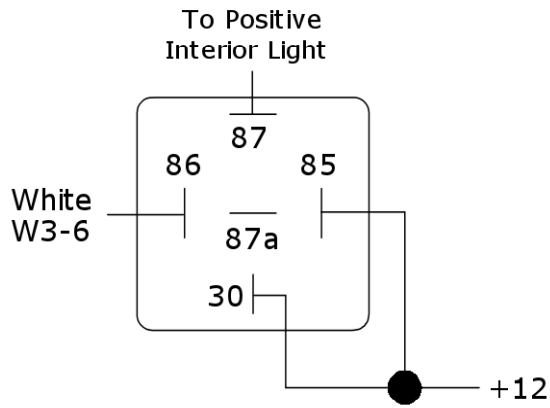
- Turn the ignition on and off 3 times (on-off-on-off-on-off).
- The siren will chirp once to confirm the system is in learning mode.
- Turn the vehicles hazard lights on and the hazard lights start to flash.
- Within 10 sec. press and hold the valet switch.
- The LED will turn on to confirm the valet switch is pressed.
- Release the valet switch once the hazard lights have flashed 10 times.
- The LED will turn off and siren will chirp once to confirm the learning is complete.

\* The system will leave the learning mode automatically if the valet switch is not pressed within 10 sec. or if the ignition is turned on.

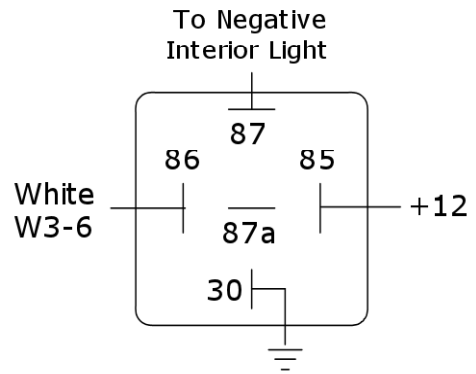


## Wiring Diagrams - Interior Light, Horn & Boot Release

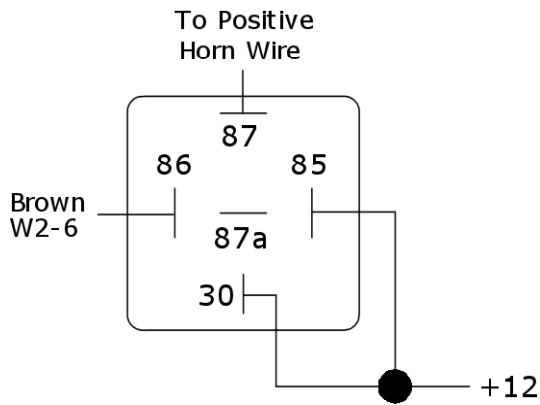
**Positive Interior Light**



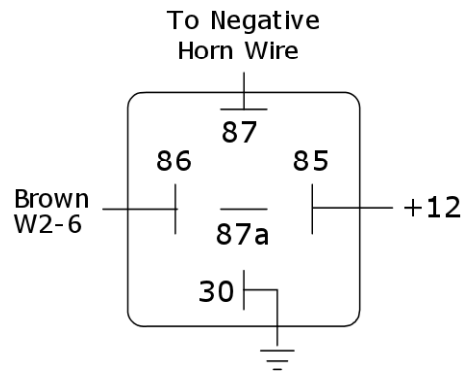
**Negative Interior Light**



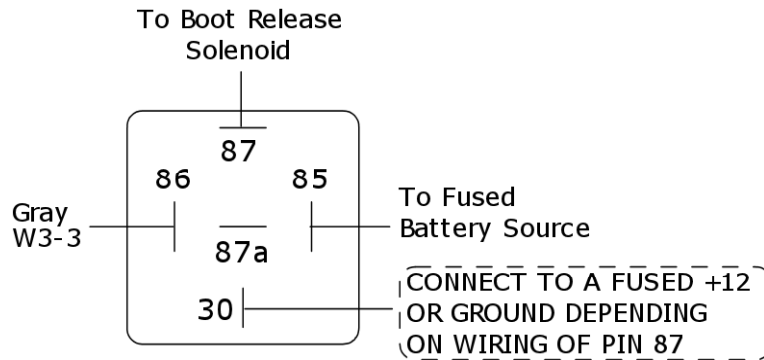
**Positive Horn Honk**



**Negative Horn Honk**



**Boot Release Wiring**

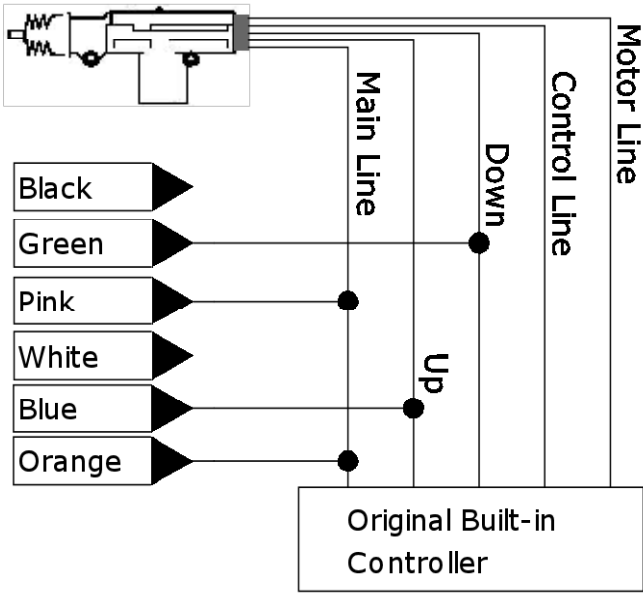




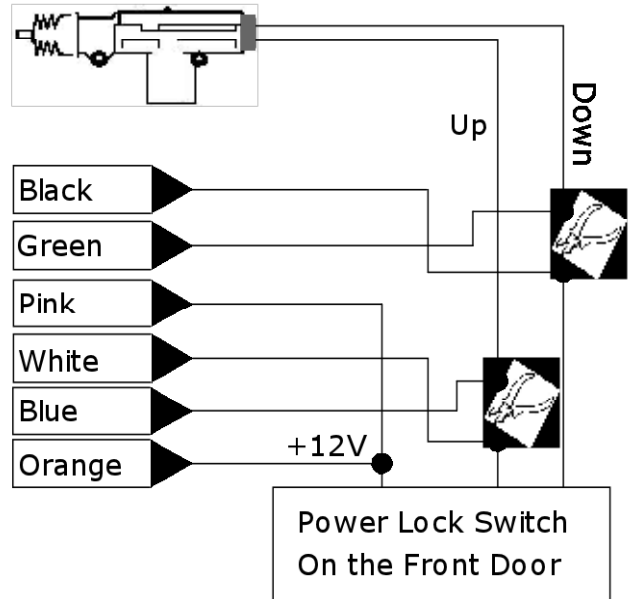
## Sniper X2 Basic Central Lock Wiring Diagram

Follow the diagrams below for wiring basic central locking systems

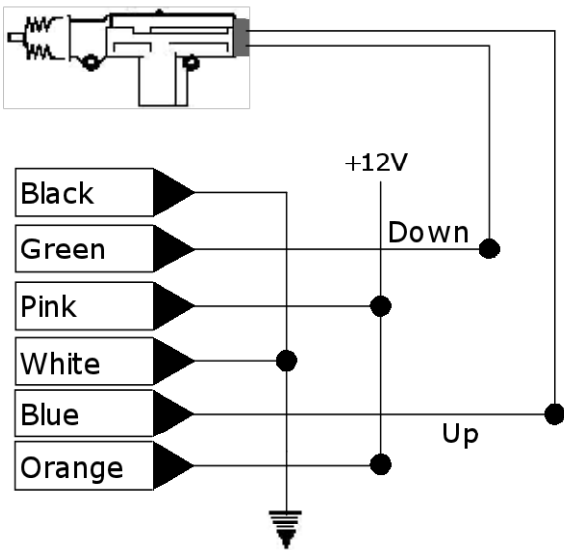
**Diagram #A**  
Original built-in central locking  
Negative or Positive  
Main Line + or - as required



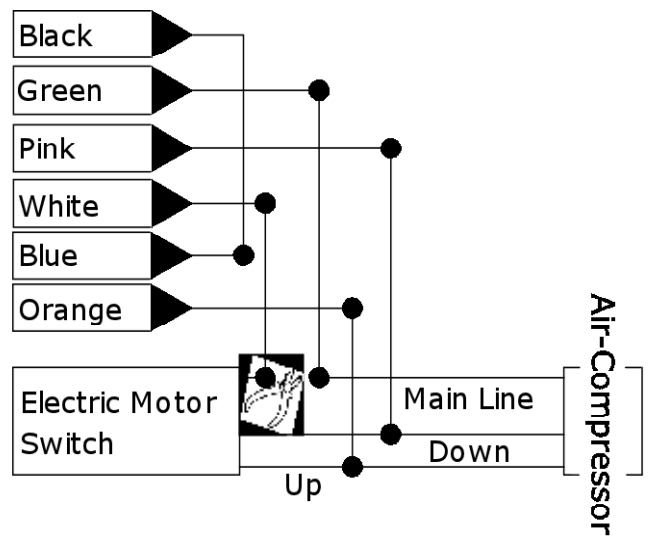
**Diagram #B**  
Original built-in central locking &  
electric lock switch is installed  
For example: CHRYSLER



**Diagram #C**  
Original built-in central locking where only  
a switch is installed in the drivers door.  
A door motor is required.



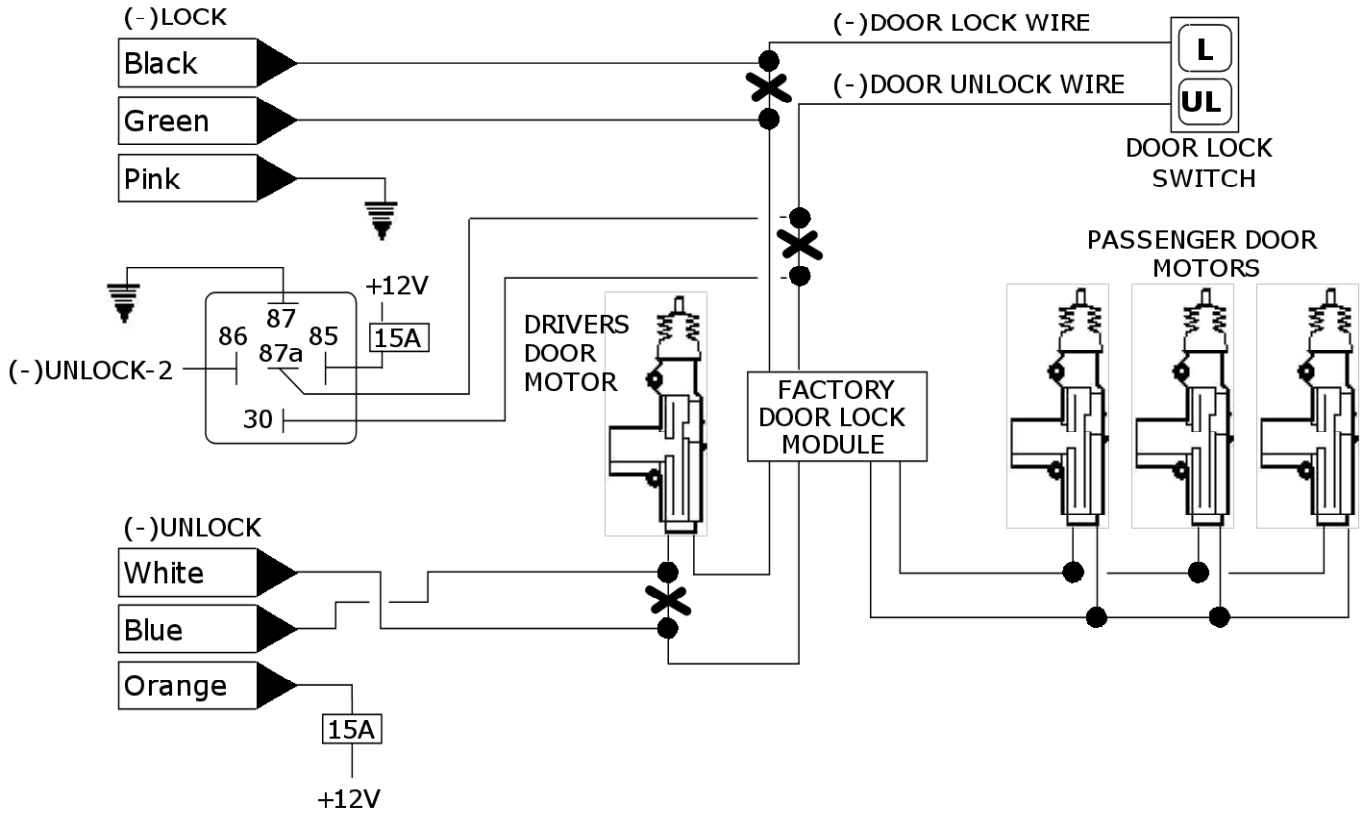
**Diagram #D**  
Original built-in central locking using  
a compressor to control the switch.  
For example: BENZ, AUDI  
(Note: Active time 3.5 sec.)



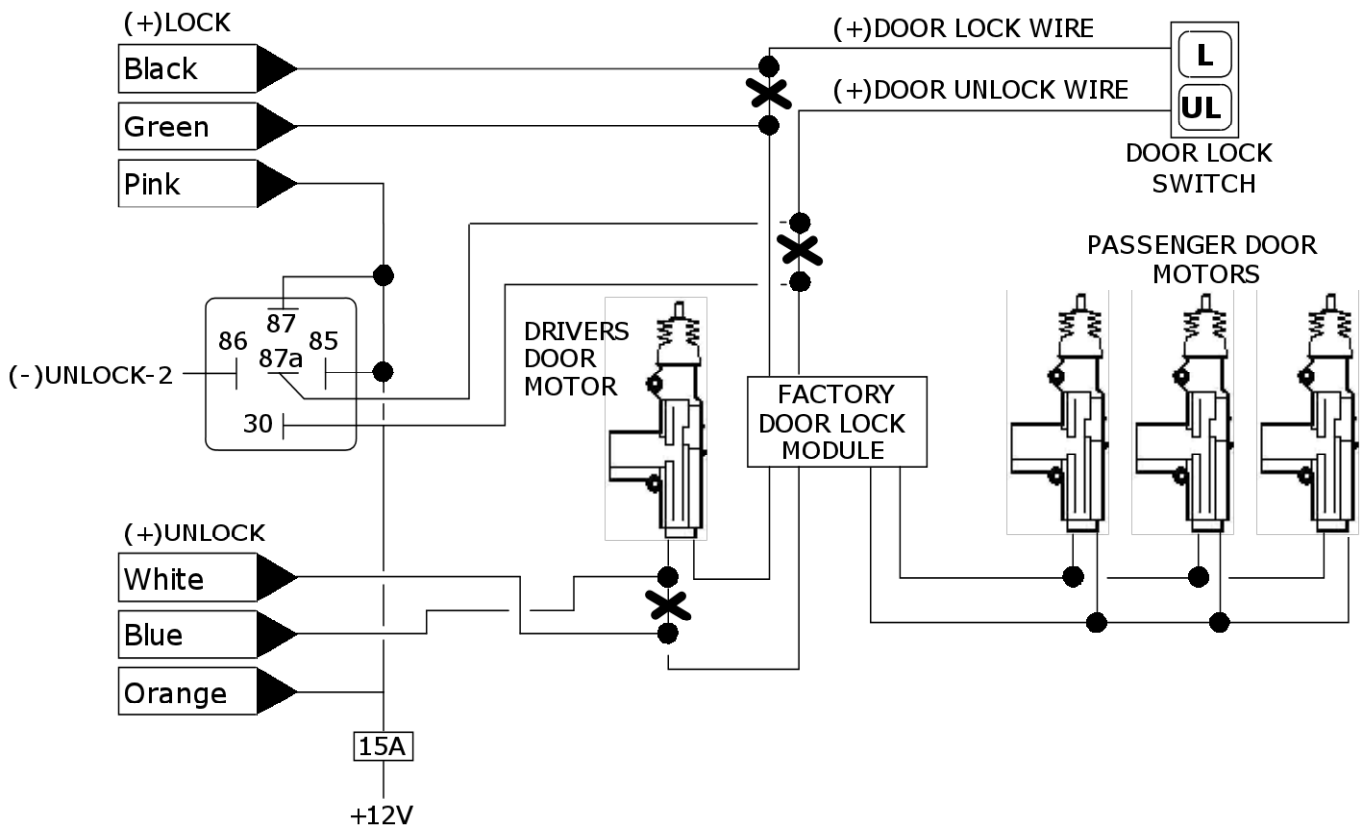
## Sniper X2 Two Stage Door Unlock Wiring Diagram

The Sniper X2 has a dedicated unlock-2 output allowing for two stage door unlock operation.

### Two Stage Negative Trigger



### Two Stage Positive Trigger



## Sniper X2 Two Stage Door Unlock Wiring Diagram

