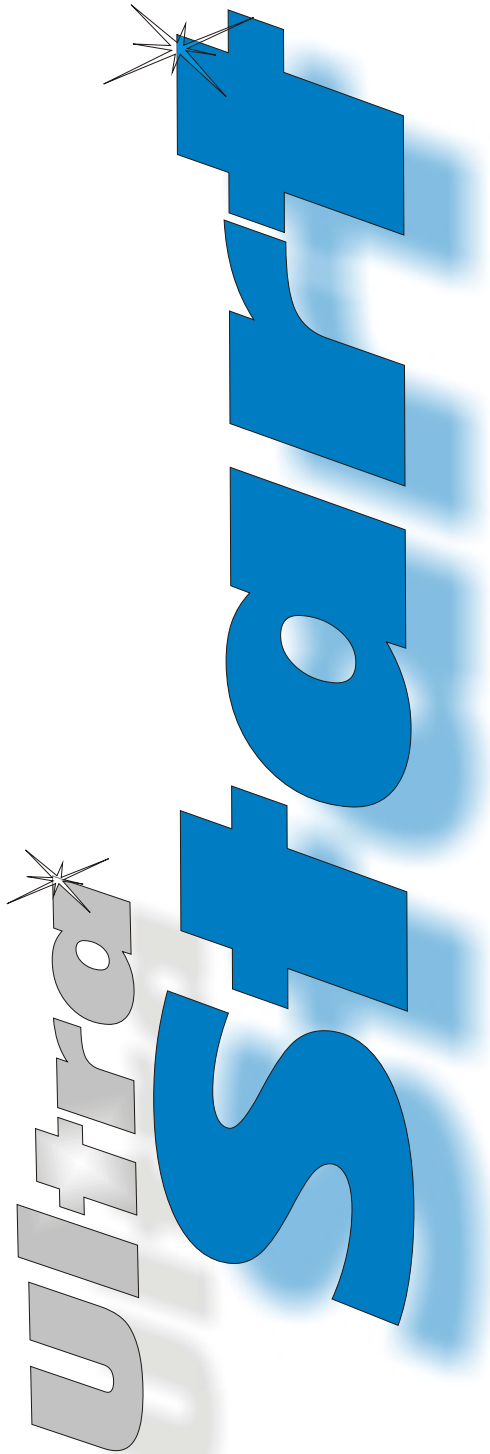


Installation Guide



2000

Advanced Alarm &
Remote Starter

SUPPORT

Toll Free: 1-866-698-5872

email: support@ultrastarters.com

web: www.ultrastarters.com

TRANSMITTER PROGRAMMING

STEP 1 - Open the hood.

STEP 2 - Turn ignition key ON-OFF-ON-OFF-ON Leaving Key ON.

STEP 3 - Hold brake down until lights flash and LED's come on solid.
About 5 seconds.

STEP 4 -Siren/horn will chirp 5 times and leds will stay on solid.

STEP 5- Press the lock button on each transmitter to be programmed.
The park lights will flash 1 time each time a transmitter is learned.

NOTE : All transmitters to be used must be programmed at the same time . Any transmitter not programmed in the same sequence will be erased from the systems memory.

SYSTEM RESET to DEFAULT Settings

STEP 1 - Enter Program Mode by turning ignition key ON-OFF-ON-OFF-ON (Leaving Key ON).

STEP 2 - Press the Valet (program) Button, located on the antenna 1 time and release.
Siren/Horn will chip once.

STEP 3 - Press and hold button #4 for two seconds.

STEP 4 - Siren will chirp twice Continue to hold valet until park lights and siren go on and off three times.

System is now re-set to factory defaults.

TRANSMITTERS

1
Lock Doors
Arm Alarm

3
Remote Start
Aux.



2
Unlock Doors
Disarm Alarm

4
Car Finder
Aux

EMERGENCY VALET MODE - All Models



ENTERING VALET MODE

1. While ignition is "on" press and hold the antenna button for 5 seconds until siren chirps 5 times.
2. Alarm and remote start functions will be disabled and LED will be "on" steady. Door locks and trunk release are still operational.

EXITING VALET MODE

1. While ignition is "on" press and hold the antenna button for 5 seconds until siren chirps 2 times.

Note: System can be programmed into "High Security Mode" to enhance or disable this feature, check with installation center.

BASIC INSTALLATION - QUICK START 2000 Series

STEP 1 - The following wires MUST be connected for proper operation.

6 Pin Power Connector - Connect the following:

WIRE	FUNCTION			Connect to on Vehicle
RED-1	Main Power	Input	(+)	Constant 12V (+) at Ignition Harness
RED-2	Main Power	Input	(+)	Constant 12V (+) at Ignition Harness
BLUE	Ignition	Output	(+)	Main Ignition (+) at Ignition Harness
YELLOW	Starter	Output	(+)	Starter Wire (+) at Ignition Harness
GREEN	Accessory	Output	(+)	Heater wire (+) at Ignition Harness
BLACK	System Ground	Input	(-)	Ground on Vehicle (-)

14 Pin Accessory Connector - Connect the following:

WIRE	FUNCTION			Connect to on Vehicle
White	Parking Lights	Output	(+)	12v(+) Parking Lights
Green/White	Hood Pin Safety	Input	(-)	Hood Pin Switch (-) when hood open
Blue/white	Tach Input (-/+)	Input	(-/+)	A/C tach source (Optional)
Blue	Brake Pedal	Input	(+)	12v when brake pedal is pressed
Green	Door Trigger	Input	(-)	Switches to (-) when door opens
Purple	Door Trigger	Input	(+)	Switches to (+) when door opens
Brown	Siren/Horn	Output	(+)	Connect to siren or to factory horn

STEP 2 - Plug the Connectors into the Unit

Plug the 6 Pin Connector into the Remote Starter module then plug the 14 Pin and any other connectors into unit.

****Make sure that Ignition Key is in the OFF position*****

STEP 3 - Tach Selection - Default Tachless

Method 1- Voltage sensing. System will sense a increase in voltage and stop cranking.

Method 2- Tachless timer mode. Starter stops cranking at a pre-determined crank time.

Method 3- Tach learning. System will sense tach pulses from the vehicle.

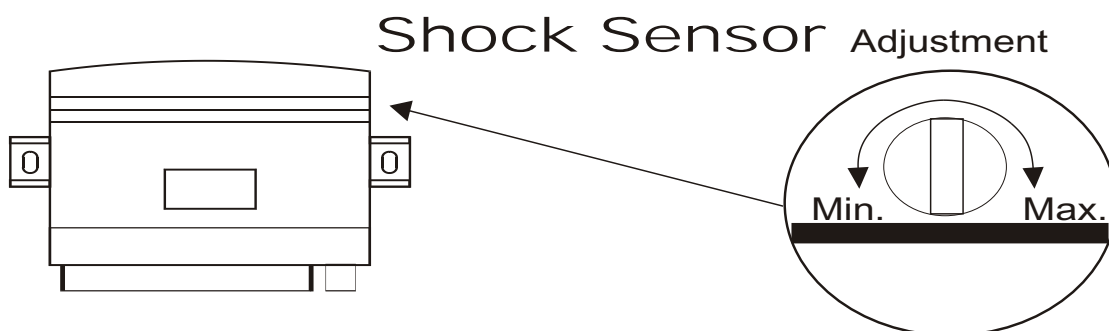
See tach and voltage settings in the Program Guide

MANUAL TRANSMISSION

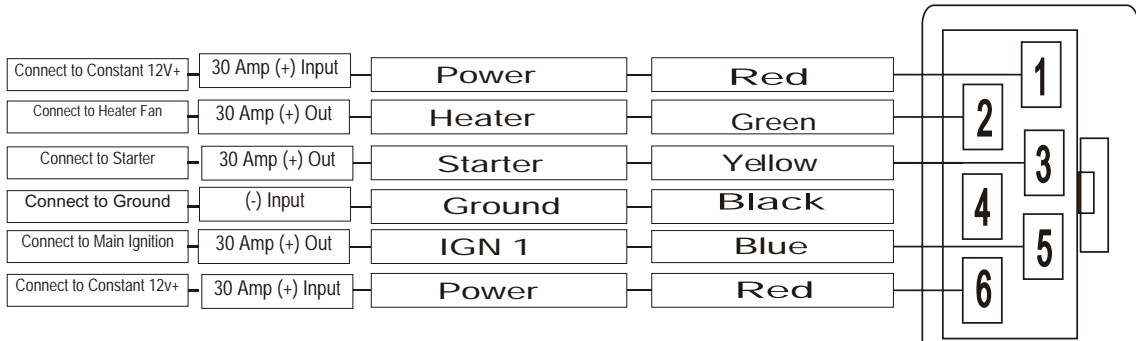
NOTE : Place dip switch #2 in the "ON" position

"Reservation Mode" must be activated each time vehicle is exited to remote start

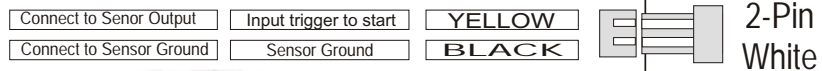
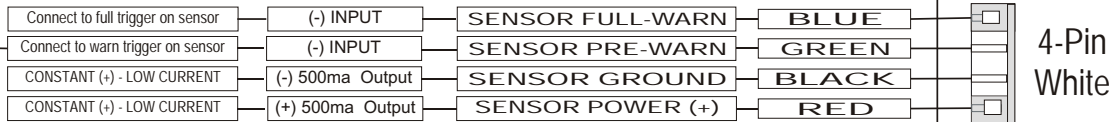
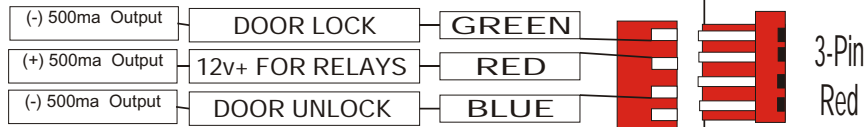
SHOCK SENSOR ADJUSTMENT - Alarm Models ONLY



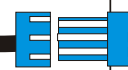
2000 SERIES WIRING DIAGRAM



Important Note:
To access Program Mode
This wire must be connected to the hood input.

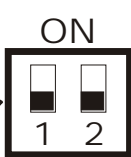


RF ANTENNA WITH DUAL LED'S & BUILT-IN VALET



4 PIN BLUE

Blue Loop



Dip Switch	1	2
ON	Oil Sense Mode	Manual Transmission
OFF	Tach/Tachless Mode	Auto Transmission

14 PIN CONNECTOR

White: +12 VDC Output for Flashing Parking Lights 15Amp

Connect this **White** wire to positive side of the parking lights wire.

Red/White: 2nd Channel Output (Trunk Release)

This **Red/White** wire supplies 500ma (-) output when button # 2 is pressed for 1 ½ seconds.

Note: This can also be used for Driver's Door Unlock priority.

Blue/White: + 12 VDC Output for Ignition 2 Wire 15 Amp Max

Connect this **Blue/White** wire to the second Ignition wire. (15 amps Max Current).

Brown: Positive Output for Siren or Horn

Connect to (+) brown wire on siren or use relay to connect to (-) Horn

White/Violet: Negative Output while Running

Provides a 500ma (-) Output while remote starter is active

Green: Negative Door Switch Input

Connect to Door Pin switch that is (-) when door is open

Orange - Negative when Armed

Provides a (-) 500ma Output when the alarm is armed

Black/White: Tach Input Used only in Tach Mode - See Programming.

Connect this wire to an A/C tach source

Blue: (+) Brake Pedal Input

Connect this wire to the brake light wire at the brake switch

Gray: Dome-light Output

Provides a 500ma(-) Output for 30 seconds on Unlock/ Disarm

Green / White: Hood Input (-)

Connect to hood pin switch (-) when hood is open

Pink: Factory Disarm.

Provides a 500ma (-) pulse before start

Yellow: Glow Plug Input (See Programming).

Connect this **Yellow** wire to the optional Glow Plug Module for Diesel Glow Plug Mode

Violet: Positive Door Switch Input (Ford Type).

Connect to the door pin-switch, which supplies +12 VDC when door is opened

6 PIN CONNECTOR

Red Wires - +12 VDC Main Power Source Input 30Amp

Connect these two **Red** wires to a main constant +12 VDC power source.

Black - Chassis Ground

Connect this **Black** wire securely to a clean, solid negative chassis ground.

Blue - Ignition - Switched +12 VDC Output 30Amp

Connect this **Blue** wire to the ignition wire supplying + 12 VDC when the ignition key is in the ignition "On" and "Start" position.

Note: Many vehicles have 2 main ignition wires which must be connected to ensure proper operation. See Ignition2 - Blue/White wire #3 of the 14 pin harness - 10 amp

Yellow - Starter Output 30Amp

Connect this **Yellow** wire supplying +12 VDC when the ignition key is in the ignition "Start" position only.

Note: If installing a Starter Disable Relay, see Ground OIP Orange wire #7 of the 14 pin harness.

Green - Accessory +12 VDC output - Heater/Air Conditioner - 30 Amp

Connect this **Green** wire to the Accessory wire supplying +12 VDC when the ignition key is in the Accessory "On" position but not in the "Start" position.

TRANSMITTER PROGRAMMING

Transmitter Programming

Note: The system is capable of learning up to 3 different transmitter codes.

To place the system in Transmitter Code Learning Mode:

1. Open the hood.
2. Start with ignition key in the “Off” position, turn the ignition key “On/Off”, “On/Off”, “On” and leave in the “On” position.
3. Press and hold the brake down for 5 seconds until lights flash 5 times and the LED comes “ON” solid.

The system is now in Programming Mode and is ready to accept transmitter programming.

To program new Transmitters:

Press button #1 of each transmitter once momentarily - the system will respond with 1 light flash and one chirp/honk. The LED will turn “Off” momentarily to confirm that it has accepted the new code.

Note: If programming only one set of transmitters, upon entering into programming mode, press button 1 of the transmitter 3 times. This will fill up all memory locations.

To exit Transmitter Code Learning Mode:

The system will automatically exit Programming Mode for any of the following conditions:

1. The ignition is turned “Off”.
2. No new transmitter button has been pressed within 5 seconds.
3. After the 3rd transmitter has been programmed.

The LED will respond by turning “Off”, indicating that it has exited programming mode.

Important: Once the system has exited Programming Mode, turn the ignition key to the “Off” position and test transmitter.

PROGRAMMING - Tach Settings

Voltage Sense Mode **(System Default)**

Note: Ensure that program switch #1 is in the “Off” position.

The recommended setting is Voltage Sense Mode. This method requires no additional wiring.

Note: In Voltage Sense Mode, do **NOT** connect the **Black/White** Tach Sense Wire.

Tach Sense / Tach Learning Mode

Note: Ensure that program switch #1 is in the “Off” position.

In this mode the system will sense and/or learn the tach pulses from the vehicle.

Connect the **Black/white** Tach wire and follow Tach Learning Procedure. See Installer Program Menu

Tachless Timer Mode

Note: Ensure that program switch #1 is in the “Off” position.

In this mode the starter will stop cranking after a pre-determined crank time. (See Below).

If Tachless Timer Mode does not start the car properly, proceed into:

Alternator Sensing Mode

Note: Ensure that program switch #1 is in the “On” position.

In this mode the system will sense the change in voltage from Ground to +12 VDC when the vehicle has started and subsequently stop cranking. Locate wire on alternator that goes from ground to 12V+ when vehicle has started

Tach Learning- Method 3

Tach learning is optional. It is only necessary if the tach sense option is selected as the desired start detection method. The black/white tach wire must be connected to a tach source. The following steps are also necessary for tach learning.

1. Dip switch 1 must be in the off position.
2. The Blue Loop Inside module needs to be cut.
3. Unit needs to be programmed to tach mode. See sensing method in the program guide.

Programming Tach

Step 1. Enter Installer program Mode.(Ignition On,Off On,Off, On, Leave key On.

Step 2. Press the antenna button once. Siren and park lights will go on then off.

Step 3. Select Setting One. (Press the button # 2 twice. LED's should flash in two's).

Step 4. Press button # 3 then start the vehicle with the key.

The system will confirm tach learning by turning the park lights on and chirping the siren three times.

Note: If system does not respond, repeat steps as listed above. If unit does not learn change to a different tach source. Fuel Injectors work best.

Manual Transmission Mode

Manual Transmission Mode

Note: Program switch #2 on control unit must be in "ON" position.

In order to start a Manual Transmission equipped vehicle:

Manual Transmission Reservation Mode must be enabled each time.

Manual Transmission Reservation Mode.

Step 1- Leave the Ignition Key in the "On" position (Car is still running).

Step 2- Press and hold the brake pedal, then press & release button #4.

The system will respond with 1 siren/horn chirp & light flash.

Step 3- Turn the Ignition Key "Off" - the vehicle should stay running.

Step 4- Within 20 seconds open and close door (**Note:** The door switch input must be hooked up).

Step 5- Within 20 seconds of the door closing, press button #1, the doors will lock and the vehicle will shut "off".

Step 6- The vehicle can now be remote started by pressing button #3.

Note: If a door is opened, the brake is pressed or the ignition turned "on", the vehicle will exit Reservation Mode.

Note: For increased protection, a Radar Sensor is recommended to protect anyone from getting near the gearshift if the vehicle is a convertible or if a window is opened.

Connect the Radar Sensor through relay to the **Green/White** wire hood safety switch input

PROGRAMMING - Installer Program Mode

This system is capable of multiple programmable functions.

To Enter Installer Program Mode:

1. Open the hood.
2. Turn the Ignition Key “On/Off”, “On/Off”, “On”.
3. Press & Release the button on the antenna once.

The system will respond with one siren/horn chirp and light flash to confirm it is in Program Mode and is ready for Feature Programming.

Note: Upon entering Program Mode you can change as many Modes as you like as long as you don't pause for more than 10 seconds between button presses or turn the ignition being turned “Off”

To Exit Installer Program Mode

The system will exit Program Mode automatically in the following conditions:

1. The ignition is turned to the “Off” position
2. No new feature has been programmed within 10 seconds.

Transmitter Button Operation

The transmitter is used in the “Program Mode” as follows:



- Button #1 (Lock)** Selects the next lower program feature
- Button #2 (Unlock)** Selects the next higher program feature
- Button #3 (*)** Selects the setting for the current program feature
- Button #4 (#)** Confirms the selected setting via chirps and light flashes

LED INDICATORS

The LED indicators on the antenna with flash in sequence to confirm the selected programming feature (ie Program feature 4 = 4 LED flashes)

Program Feature	1 Chirp	2 Chirps	3 Chirps	
0	Reset to Default	Press & Hold Valet button #4 for 2 seconds		
1	Tach Sensing Method	Tach Learning (Must connect Tach Wire)	Tach-less Timer Mode	<i>Tach-Less / Voltage Sensing</i>
2	Doorlock Timing	3 Second Pulses	Double Unlock Pulse	<i>0.75 Single Pulses</i>
3	Siren / Horn Selection	Horn (Pulsed Output)	<i>Siren (Constant Output)</i>	
4	4th Channel Operation	4th Channel	<i>Factory Alarm Disarm</i>	
5	4th Channel Timing	Pulsed with Disarm	Latched	<i>Variable (As Long as Button Is Held)</i>
6	GM Rearm Mode	GM Rearm Mode	<i>Normal Dome-Light Output</i>	
7	Gas/Diesel Selection	Diesel Timer (10 Second Start Delay)	Diesel Glow-plug Sensing	<i>Normal Operation (Gas Mode)</i>
8	Valet Mode Options	IGN & Valet for 15 sec	Switch Disabled	<i>Ign & Switch for 5 seconds</i>

*** Option in **BOLD** indicates default setting****

PROGRAMMING - Installer Program Mode

Feature 1 - Sensing Method - Default: Voltage Sensing

Press Button 3	Tach Method	Confirmation
1 Time	Tach Learning	1 flash and chirp
2 Times	Tach-less Timer Mode	2 flashes and chirps
3 Times (Default)	Voltage Sensing	3 flashes and chirps

NOTE: BLUE WIRE LOOP INSIDE THE UNIT MUST BE CUT FOR TACH SENSING MODE

Feature 2 - Door Lock Timing - Default: 0.75 Seconds.

Press Button 3	Output	Confirmation
1 Time	3 second Pulses	1 flash and chirp
2 Times	1 - 0.75 Lock Pulse & 2- Unlock Pulses	2 flashes and chirps
3 Times (Default)	0.75 Lock & Unlock Pulses	3 flashes and chirps

Feature 3 - Siren / Horn Output

Press Button 3	Output	Confirmation
1 Time	Horn honk Mode	1 flash and chirp
2 Times (Default)	Siren Mode	2 flashes and chirps

Feature 4 - Factory Disarm / 4th Channel

Press Button 3	Output	Confirmation
1 Time	4th Channel Output	1 flash and chirp
2 Times (Default)	Factory Alarm Disarm	2 flashes and chirps

Note: Feature #5 must be programmed for 4th Channel Operation

Feature 5 - 4th Channel Output Type

Press Button 3	Output	Confirmation
1 Time	Pulsed Output / Disarm / Unlock	1 flash and chirp
2 Times	Latching Output	2 flashes and chirps
3 Times (Default)	Variable (as long as button pressed)	3 flashes and chirps

Feature 6 - GM Factory Alarm Rearm / Dome-Light Mode

Press Button 3	Output	Confirmation
1 Time	GM Re-arm Mode	1 flash and chirp
2 Times (Default)	Dome Light Supervision Mode	2 flashes and chirps

Feature 7 - Gas / Diesel Engine Mode

Press Button 3	Mode	Confirmation
1 Time	Diesel Timer Mode	1 flash and chirp
2 Times	Diesel Glow Plug	2 flashes and chirps
3 Times (Default)	Gas Vehicle Mode	3 flashes and chirps

Feature 8 - Maximum Crank Time

Press Button 3	Crank Time	Confirmation
1 Time	6 Second	1 flash and chirp
2 Times (Default)	3 Second	2 flashes and chirps

Feature 9 - Programmable Valet Switch

Press Button 3	Mode	Confirmation
1 Time	Ignition "ON" and button for 15 seconds	1 flash and chirp
2 Times	Disable Valet Switch (Remote Only)	2 flashes and chirps
3 Times (Default)	Ignition "On" valet button for 5 seconds	3 flashes and chirps

PROGRAMMING - Advanced Operations

To Enter Advanced Program Mode:

1. Open the hood and the door.
2. Press & Hold the BRAKE pedal
3. Turn the Ignition Key "On/Off"
4. Press & Release the button on the antenna twice.

The system will respond with one siren/horn chirp and light flash to confirm it is in Program Mode and is ready for Feature Programming.

Note: Upon entering Program Mode you can change as many Modes as you like as long as you don't pause for more than 10 seconds between button presses or turn the ignition being turned "ON"

To Exit Advanced Program Mode

The system will exit Program Mode automatically in the following conditions:

1. The ignition is turned to the "ON" position
2. No new feature has been programmed within 10 seconds.

Transmitter Button Operation

The transmitter is used in the "Program Mode" as follows:



Button #1 (Lock)

Selects the next lower program feature

Button #2 (Unlock)

Selects the next higher program feature

Button #3 (*)

Selects the setting for the current program feature

Button #4 (#)

Confirms the selected setting via chirps and light flashes

LED INDICATORS

The LED indicators on the antenna will flash in sequence to confirm the selected programming feature (ie Program feature 4 = 4 LED flashes)

Program Feature	1 Chirp	2 Chirps	3 Chirps
0	Reset to Default	Press & Hold Valet button #4 for 2 seconds	
1	Passive/Active Arming	Passive Arming (Automatic Arming)	Passive Arming & auto lock (Automatic Arming)
			Active Arming (Arms with remote only)
2	Chirp Delete	Chirps Deleted	Chirps Enabled
3	Ignition Auto Lock	Enabled	Disabled
4	Auto Rearm	Enabled	Disabled
5	Accessory Delay	60 Seconds Delay	2 Seconds Delay
6	Remote Start Mode	Start with No Arming	Start and Arm Alarm
7	Parking Lights	On for 25 seconds after disarm	2 Flashes on Disarm
8	Run Time	30 Minutes	5 Minutes
			15 Minutes
9	Car Jack Mode	Mode #1	Mode #2
10	Sensor Delete	Sensors Deleted	Sensors Enabled

*** Option in **BOLD** indicates default setting***

PROGRAMMING - Advanced Program Mode

Feature 1 - Passive / Active Arming

Press Button 3	Tach Method	Confirmation
1 Time	Passive Arming	1 flash and chirp
2 Times	Passive Arming w/ Lock	2 flashes and chirps
3 Times (Default)	Active Arming	3 flashes and chirps

Feature 2 - Chirp Delete

Press Button 3	Output	Confirmation
1 Time	Chirps Deleted	1 flash and chirp
2 Times(Default)	Chirps Enabled	2 flashes and chirps

Feature 3 - Ignition Auto Lock

Press Button 3	Output	Confirmation
1 Time	Auto Lock Disabled	1 flash and chirp
2 Times	Auto Lock (Lock Only)	2 flashes and chirps
3 Times (Default)	Auto Lock Enabled	3 flashes and chirps

Feature 4 - Auto Rearm

Press Button 3	Output	Confirmation
1 Time	Auto Rearm Enabled	1 flash and chirp
2 Times (Default)	Auto Rearm Disabled	2 flashes and chirps

Auto Arm Arms the Alarm 30 seconds after unlock is pressed if no door is opened

Feature 5 - Accessory (Heater) Delay after Remote Start

Press Button 3	Output	Confirmation
1 Time	60 Seconds Delay	1 flash and chirp
2 Times (Default)	2 Second Delay	2 flashes and chirps

Feature 6 - Remote Starting with Auto Arm

Press Button 3	Output	Confirmation
1 Time	Remote Start Only	1 flash and chirp
2 Times (Default)	Remote Start with Auto Arm	2 flashes and chirps

Feature 7 - Parking Light Output - On Disarm

Press Button 3	Mode	Confirmation
1 Time	Parking Lights on for 25 sec	1 flash and chirp
2 Times (Default)	2 Parking light flashes	2 flashes and chirps

Feature 8 - Programmable Run Time

Press Button 3	Crank Time	Confirmation
1 Time	30 Minutes	1 flash and chirp
2 Times	5 Minutes	2 flashes and chirps
3 Times(Default)	15 Minutes	3 flashes and chirps

Feature 9 - Car Jack Mode

Press Button 3	Mode	Confirmation
1 Time	Activated by Button 4 while driving	1 flash and chirp
2 Times	Button 4 and door open while driving	2 flashes and chirps
3 Times (Default)	Car Jack Mode Off	3 flashes and chirps

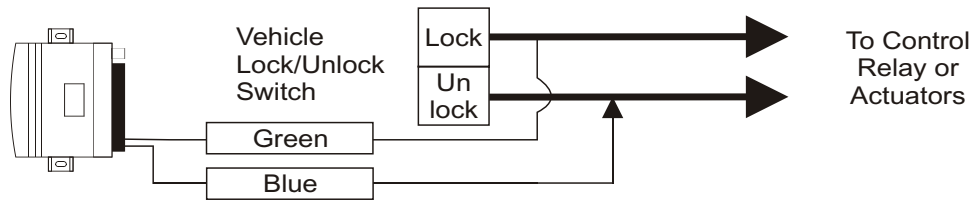
Feature 10 - Sensor Delete

Press Button 3	Mode	Confirmation
1 Time	Sensors Disabled	1 flash and chirp
2 Times (Default)	Sensors Enabled	2 flashes and chirps

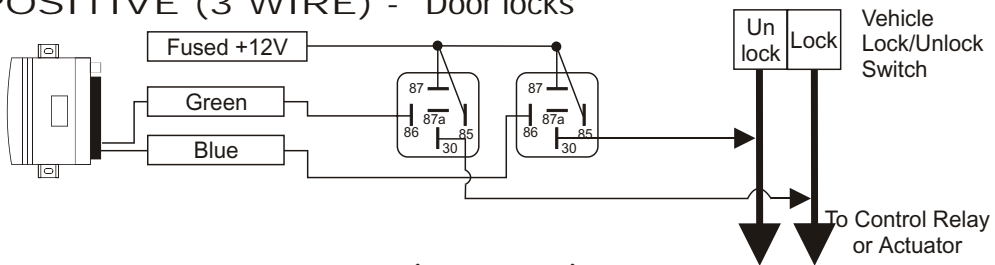
RELAY DIAGRAMS

Use 30A SPDT Automotive Type Relays

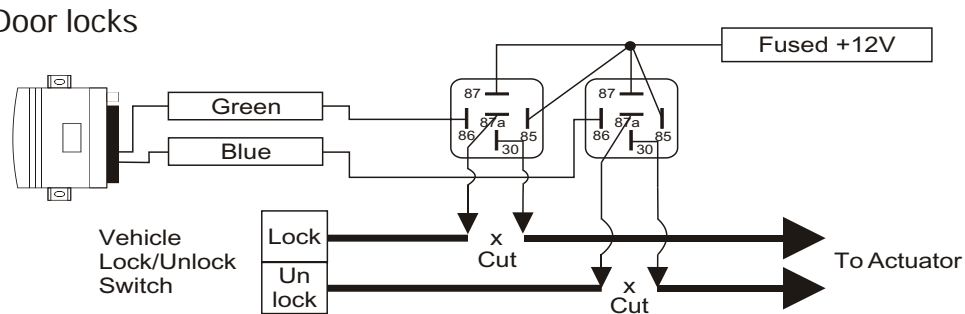
NEGATIVE - Door locks



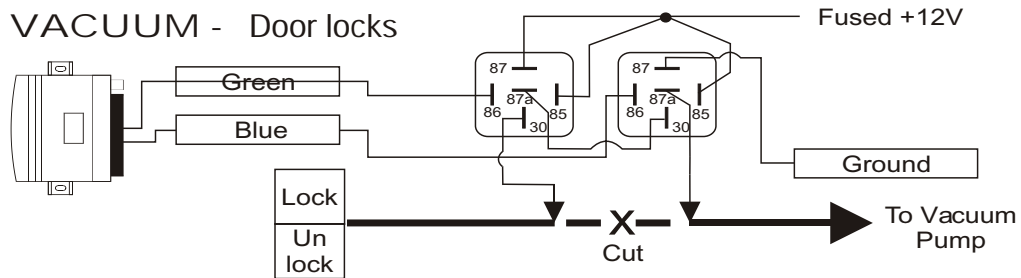
POSITIVE (3 WIRE) - Door locks



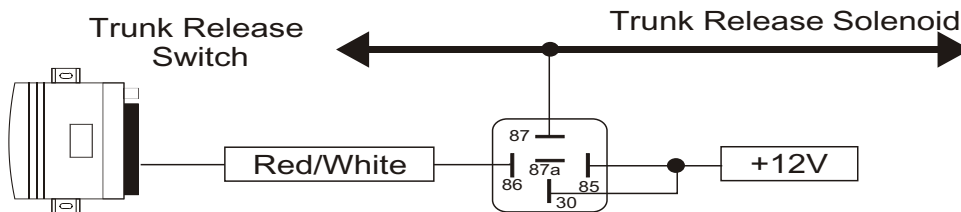
REVERSE POLARITY (5 WIRE) Door locks



VACUUM - Door locks



POSITIVE TRUNK RELEASE



STARTER KILL 2000 SERIES

