

# INSTALL GUIDE

**AUTOMATIC TRANSMISSION ONLY!**

REMOTE STARTERS

CAR ALARMS



**ULTRA  
START**

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Note: Some features may not be available on certain models.

## **Warning!!**

**CARBON MONOXIDE MAY CAUSE SERIOUS INJURY, EVEN DEATH!**

It is the sole responsibility of the user to place the system in Service Mode when parking in an enclosed area ex: *garage*, partially enclosed area ex: *carport*, or when the vehicle is being serviced.

**NEVER INSTALL IN A MANUAL TRANSMISSION VEHICLE!!!**

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**Please read manual thoroughly.**

## Components

- Control module
- 2 Remote Transmitters
- Antenna with built in Program Button and LEDs
- 6 pin Main harness
- 14 pin auxiliary harness
- 3 pin keyless entry harness
- 3 pin auxiliary harness (not available on all models)
- Owner and Install guide's
- Hood pin switch

## Feature List

- Auto Tach (Tachless, TL series only) learning with Quick Learn
- Run Time: 4/15/45 minutes
- Door locks: .125s/.75s/3s / Double unlock / Ignition lock/unlock
- Horn\* or Siren\*\* output 5ms/10ms/50ms
- Timer Mode Star with 3 different start intervals
- Programmable Wait to Start or (+/-) diesel Glow plug input
- Ground While Running/Anti-grind protection/Starter kill
- System Override Protection/Service Mode (Valet)
- Park light and LED diagnostics
- Panic mode
- Engine Idle mode

\*1270/3270/3265 series

\*\*2270/4270/4265 series

# IMPORTANT!

**NEVER INSTALL IN A MANUAL TRANSMISSION VEHICLE!!!**

## Recommended Installation Procedures

**Remote car starters and alarms should be professionally installed.** Review the installation and owner manuals and acquire a vehicle wiring diagram for the vehicle to be worked on. Take a few moments to walk around the vehicle looking for any damages and make note if any are found. Also check other functions such as the lighting system, warning or check engine lights. Check if the vehicle has a factory security or anti-theft system (Transponder or PASS-LOCK). These systems will require additional parts and labor to complete the installation. Use of the proper tools and testing equipment is also very important. **Never** use a grounding style test light. Use only a **circuit safe** test light or digital **Volt/Ohm meter** to test for wires in the vehicle. It is the sole responsibility of the installer to test and verify all connections.

**Proper Connections** - Remote Starters can handle loads of up to 30 amps for extended periods of time. It is critical to insure that all high current connections are properly soldered and insulated with quality electrical tape. Failing to insure proper connections will result in warranty being VOID and can result in damage to the vehicle and remote starter module. The manufacture is not responsible for any such damages. It only takes a few more minutes to do the job right.

**Under Hood Connections** - Route the hood pin and tach wire through the firewall into the engine compartment. If possible route the wires through a factory rubber grommet. If drilling a hole through the firewall, **BE CAREFUL**. Always check for obstructions on both sides of the firewall. After drilling, use a snap in grommet to protect the wires from sharp edges. Use split loom to insulate the wires, route the wires clear of moving parts and extreme heat. The hood pin switch must always be installed and the tach wire should always be soldered and taped properly.

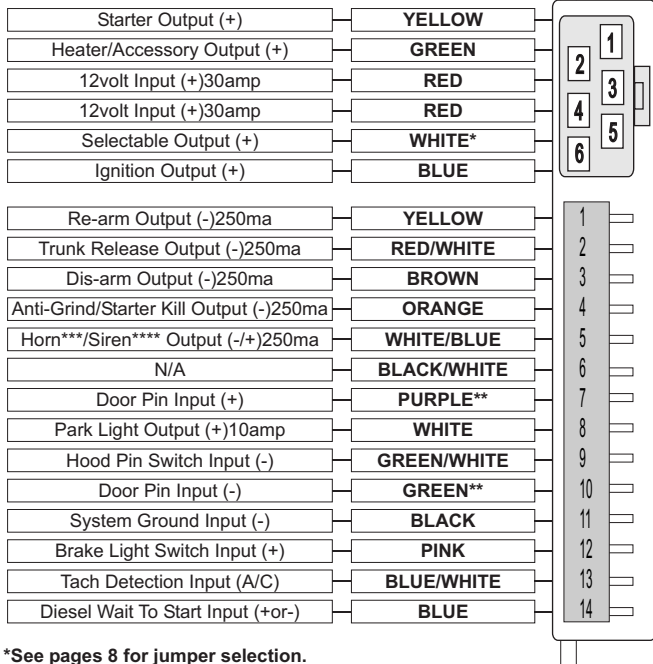
## Recommended Installation Procedures

**Mounting The Control Module - Never** mount the module in the engine compartment. Select a location under the dash to install the main module. Be certain that the module is securely attached and does not obstruct any serviceable areas. Do not force or jam the module into tight places instead of mounting. The module must be free from all moving parts such as brake, clutch and gas pedal linkages. Do not place the module directly in front of a heater vent.

**Installing the External Long Range Antenna -** To insure the best possible reception, place the antenna in the center of the windshield below the tint screen and behind the rear view mirror. Before attaching to the glass ensure that the surface is clean and dry. Run the cable under the head liner and behind the A-pillar panel. Be careful not to pinch the antenna cable. Plug the antenna into the **BLUE** connector on the Control Module.

**Testing The System -** When the installation is complete, it will be necessary to test that the system is working correctly. The system's default programming will work on the majority of vehicles, but might need to be adjusted for some applications. If the installation requires special timing or additional features, proceed to Program Mode. The system must be Tach Learned (Tachless learned on TL models) before the remote starter will make a start attempt. If the remote starter does not make a start attempt check if the park lights are flashing a diagnostic code, if so look the code up in the Diagnostic Chart to find the shutdown input that is preventing the system from starting. If the vehicle does make a start attempt but fails to start. Check all connections and insure that all wiring is connected correctly. The vehicle may be equipped with a factory anti-theft system. Vehicles equipped with factory anti-theft systems will usually have some sort of *Security* or *Anti-Theft* light located in the instrument cluster.

# Wiring Diagram



\*See pages 8 for jumper selection.

\*\*Available on the 22xx & 42xx series.

Only one of the door inputs must be connected.

\*\*\*Horn (-) Output on the 1270/3265/3270 series

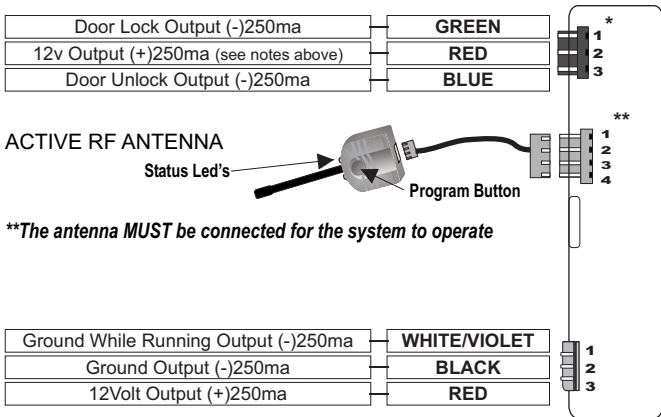
\*\*\*\*Siren (+) Output on the 2270/4265/4270 series.

**NOTE:** 250ma outputs are low current and may require the installation of a relay for the activation of optional features and inputs.

## Wiring Diagram

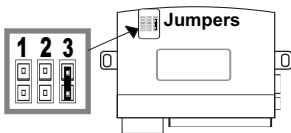
\*The centre pin of the keyless entry harness is ONLY available with plug-in devices such as the VP-1, DL-3, DL-7 and Data Bus Modules.

**Overloading this output will damage the remote starter.**



\*\*The antenna **MUST** be connected for the system to operate

Output on White wire	Jumper position
Second Starter	Position 1
Second Accessory	Position 2
<b>Second Ignition</b>	<b>Position 3</b>



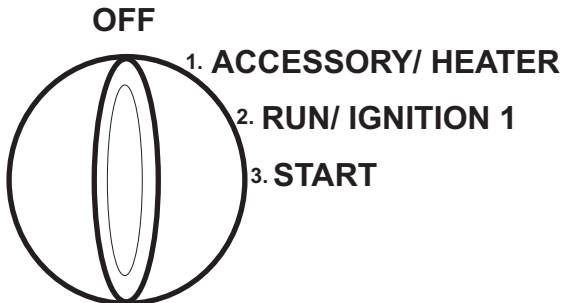
**NOTE:** The jumpers control the output from the **WHITE** wire on the main 6- pin harness. This is an **30amp relayed output**.

\*The factory default setting of the Selectable Output jumper is position #3.

## Wiring Descriptions

### MAIN CONNECTOR (6pin)

Pin	Function	Description
1-YELLOW	Starter Output	- This wire will test 0V in OFF, ACCESSORY and in the ON key positions. 12v during START ONLY.
2-GREEN	Heater/Acc Output	- This wire will test 0V in the OFF and START key positions. 12-14V in the ACCESSORY key position.
3-RED	12volt Input(30amp)	- Supplies 12votls for the IGNITION, PARK LIGHT and SELECTABLE outputs.
4-RED	12volt Input(30amp)	- Supplies 12 volts for ACC and STARTER outputs.
5-BLUE	Ignition Output	- This wire will test 0V in the OFF and ACCESSORY key positions. 12V in the IGNITION and START.
6-WHITE	Selectable Output	- Output for 2nd IGNITION, 2nd ACCESSORY or 2nd STARTER.



**TYPICAL IGNITION SWITCH**



## Wiring Descriptions

### AUXILIARY CONNECTOR (14 pin)

Pin	Function	Description
1-YELLOW	Re-arm(-)	0.75 second pulse output when <b>1</b> button is pressed and after remote start shutdown. Used for factory alarm re-arm.(menu 3)
2-RED/ WHITE	Trunk Release(-)	Programmable output. Hold the <b>1</b> button for 3 seconds, output will stay active (max 5 seconds) or programmable (-)park light.
3-BROWN	Dis-arm(-)	0.75 second pulse when the <b>1</b> button is pressed and before remote starter activation. Used for factory alarm dis-arm.
4-ORANGE	Anti-Grind/Starter Kill(-)	Output active during remote start. Programmable Starter Kill (menu 3)
5-WHITE/ BLUE	Horn(-)	Output to activate factory horn. (12xx/32xx series) <b>or</b>
6-N/A	Siren(+)	Output to activate external siren. (22xx/42xx series)
7-PURPLE	Door Pin(+)	Input to detect 12v when door is open.
8-WHITE	Park Light(+)	10amp positive output to activate park lights. Programmable output (menu 2)
9-GREEN/ WHITE	Hood Pin(-)	Input to detect ground when hood is open. <b>MUST BE CONNECTED.</b>
10-GREEN	Door Pin(-)	Input to detect (-) when door is open.
11-BLACK	Ground(-)	System chassis ground input.
12-PINK	Brake Light (+)	Positive brake light switch input. Used to detect the brake switch being applied.
13-BLUE/ WHITE	Tach(A/C)	A/C Tach signal input. Used to detect engine speed to indicate vehicle is running. (Coil, Injector, cam/crank position sensors)
14-BLUE	Diesel(+/-)	Programmable Wait to Start Input. Detects 12v or negative signals.(menu 3)

## Wiring Descriptions

### LOCK/ UNLOCK CONNECTOR (3pin red)

Pin	Function	Description
<b>1-GREEN</b>	<b>Lock(-)</b>	<i>Programmable LOCK output. (Menu 1)</i>
<b>2-RED</b>	<b>12volts</b>	<i>250ma 12volt output.</i>
<b>3-BLUE</b>	<b>Unlock(-)</b>	<i>Programmable UNLOCK output</i>

### ANTENNA CONNECTOR (4pin Blue)

*RF Antenna with Program Button and LEDs*

### AUXILIARY BYPASS CONNECTOR (3pin white)

Pin	Function	Description
<b>1-WHITE/ VIOLET</b>	<b>Ground While Running(-)</b>	<i>250ma ground output while remote starter is active.</i>
<b>2-BLACK</b>	<b>Ground(-)</b>	<i>250ma ground output.</i>
<b>3-RED</b>	<b>12volts(+)</b>	<i>250ma 12volt output.</i>

## Step 1 - Connect All Of the Following Wires

### Main Connector (6pin)

<b>YELLOW</b>	<b>Starter Output</b> - 12volts during start position only.
<b>GREEN</b>	<b>Heater/Acc Output</b> - 12volts in the accessory position off during start and 14volts during run.
<b>RED</b>	<b>12volt 30amp Input</b> - 12volts from ignition harness or battery.
<b>RED</b>	<b>12volt 30amp Input</b> - 12volts from ignition harness or battery.
<b>BLUE</b>	<b>Ignition Output</b> - 12volts in the ignition, start and run positions.
<b>WHITE*</b>	<b>Selectable Output</b> - Selectable Output for vehicles that may require a 2nd Ignition, Accessory or Start.

### Auxiliary Connector (14pin)

<b>BLACK</b>	<b>System Ground Input</b> - Connect to Chassis Ground.
<b>WHITE</b>	<b>Park Light Output</b> - Connect to Park Light system.
<b>GRN/WHT</b>	<b>Hood Pin Input</b> - Connect to the Hood Pin Safety Switch.
<b>BLUE/WHT</b>	<b>Tach Input</b> - Connect to A/C Tach source. (Above 2 volts AC)
<b>PINK</b>	<b>Brake Switch Input</b> - Connect to 12volts when the brake pedal is applied.

for alarm series (2270/4270/4265 series)

<b>GREEN**</b> or	<b>Door pin Input</b> - Connect to (-) wire when door open
<b>PURPLE**</b>	<b>Door pin Input</b> - Connect to (+) wire when door open

### Important!

**Never install an AUTOMATIC TRANSMISSION module into a MANUAL TRANSMISSION vehicle!**

\*See jumper selector position (page 7).

\*\*Connect only ONE of the door input wires.

## Auto Tach/Tachless Learn

**IMPORTANT!** The system must be Tach Learned before remote starting.

- 1) Turn the ignition key to the "ON" position. The park lights will turn "ON"
- 2) Start the vehicle with the key. The LEDs on the antenna will turn on if a proper tach signal is detected\*\*, after 30-35 seconds the park lights will flash and the siren will chirp twice to confirm Tach Learn.

**NOTE:** The LEDs will not turn "ON" for Auto Tachless Learn on the TL series.

- \* If the LEDs do not come "ON" during tach learn, a proper tach signal was not detected.
- \*\*If the park lights do not turn on check for proper connection on the BLUE ignition wire at the 6-pin connector. This wire should be connected to the vehicle main ignition wire and must not turn off during the start position. If the ignition connection is correct, reset the system (see System Reset page 14) and repeat step #1.
- \*\*\*If the park lights do not flash in auto tach learn mode it may be necessary to connect to a different tach source. It is important the ignition output from the remote starter is connected to a wire that does not turn off in the crank position. The remote starter will not tach learn if connected to the wrong wire.

*For best results connect the tach wire to the coil pack or to a fuel injector wire.*

**New -** If the original Tach source is changed a system reset must be performed before a new tach signal can be learned to the system. This does not apply if the Quick Learn feature is being used. (See page 14 for System Reset).

## Your Basic Install Is Complete!

### NOTES:

- 1) If the vehicle does not start when the remote starter is activated, the park lights will flash a diagnostic code. (See Diagnostic Chart page 28).
- 2) If the vehicle still does not start, check all connections and check for factory Anti-Theft system.

## Important Tach Notes

Tach Learning the remote starter is one of the most important steps in the installation process. Do not tach learn vehicle while the engine is in high idle. To ensure the best possible tach setting, ensure that the vehicle is at low idle/ normal operating RPM. Vehicles such as Toyota and Honda may idle much higher when the engine is warm compared to starting the vehicle when the engine is cold. The Quick Learn feature may be used to tach learn the vehicle again but at a normal engine RPM.

### Quick Learn Tach (with Blue/White connected only)

Quick Learn Tach is designed to re-learn the remote starters tach setting while the vehicle is at normal idle RPM. Vehicles such as Toyota and Honda will run at a very high idle for a number of minutes when first started. If tach learned when the vehicle is at high Idle, then remote started when the vehicle is cold. The engine does not increase to the RPM that it was learned at. The following steps can be used to learn tach at a more suitable idle:

- 1) Start the vehicle and leave it running with the ignition key until the engine idles down.
- 2) Press and hold the brake pedal.
- 3) Press and release, then press and hold the Program Button.
- 4) The park lights will flash to confirm Quick Learn Tach\*.



**NOTE:** The System MUST be “Tach Learn” before the “Quick Learn” feature will function.

**TIP:** “Manual Low Idle Learn”. While in “Auto Tach Learn” mode, firmly apply the park brake and press the brake pedal. Place the transmission into reverse gear this will lower the Engine Idle.

## System Reset

The system reset will clear any changes made to the Program Menu as well as the Tach setting.

- 1) Turn the ignition key from “Off” to “On” 3 times, **ON-OFF-ON-OFF-ON** within three seconds. (Leave the key in the **ON** position)
- 2) Press and release the **Program Button** located on the antenna. The park lights will turn on and the siren or horn (optional) will chirp one time.
- 3) Then press and hold the **Program Button** until the park lights flash and the siren or horn (optional) will chirp 3 times slowly to confirm system reset. ***System is now reset to factory defaults.***

**NOTE:** System Reset **does not** delete the remote transmitter codes from memory.

**Important!** When the system reset is complete, the system **must** be Auto Tach/Tachless learned before the remote starter will operate.

## Entering Program Mode

Ignition 3x On/Off On/Off On	Press and Release the Program Button	For Menu 1, press the Ⓜ button	For Menu 2, press the Ⓜ button	For Menu 3, press the * button	For Menu 4, press the # button
------------------------------------	--	--------------------------------------	--------------------------------------	--------------------------------------	--------------------------------------



- 1) With the ignition in the OFF position, turn the ignition key from “Off” to “On” 3 times, ON-OFF-ON-OFF-ON within three seconds.

**NOTE:** Leave the key in the ON position

- 2) Press and release the Program Button. The park lights will flash and the horn (optional) or siren will chirp to confirm entering program mode.
- 3) Select desired Program Menu (See below). The park lights will flash and the horn (optional) or siren will chirp to confirm the selected menu.
- 4) Select Programmable Setting:
  - a) *Press and release* the Program Button the correct number of times to select the desired Program Setting. The park lights and LEDs will flash and the horn (optional) or siren will chirp to indicate the Program Setting that has been selected. *For example:* 1 flash/chirp= Program Setting 1; 2 flashes/chirps= Program Setting 2; etc...
  - b) *Press and Hold* the Program Button until the park lights flash and the horn (optional) or siren chirps to confirm the desired setting. *For example:* 1 flash/chirp= Setting 1; 2 flashes/chirps= Setting 2; etc...
  - c) Turning the ignition key to the “Off” position or 30 seconds of no activity will exit Program Mode. This will be confirmed with a light flash and a long siren chirp or honk (optional). The Program Menu may be changed at any time by pressing the transmitter button (below), this will allow the installer to jump from one menu, then quickly jump to another menu and change another setting without re-entering Program Mode.

### Program Menus

#### Menu 1: User Settings (Ⓜ Button)

Pages 17-18

This program menu is for the adjustments for the user and door lock options.

#### Menu 2: Additional Settings (Ⓜ Button)

Page 19

This program menu is for additional settings.

#### Menu 3: Starter Settings (\* Button)

Pages 20-21

This program menu is for various remote car starter applications.

#### Menu 4: Tach Settings (# Button)

Page 22

This program menu is for tach signal adjustments.

## Quick View Programming

<b>Menu 1 - Press (i)</b>	1 Flash	2 Flashes	3 Flashes
1 Ignition Lock	Enabled	Lock Only	<b>Disabled</b>
2 Siren Output	Type 1	Type 2	<b>All chirps</b>
3 Lock&Unlock Options	Double Unlock	3 second	<b>3/4 second</b>
4 Unlock/Disarm	125ms	<b>750ms</b>	
5. Passive Locks*	Disable	<b>Enable</b>	
6. Shock Sensor*	Disable	<b>Enable</b>	
7. Passive Arming*	Type 1	Type 2	<b>Disable</b>

<b>Menu 2 -Press (i)</b>	1 Flash	2 Flashes	3 Flashes
1 Secure Service Mode	15 seconds	<b>5 seconds</b>	
2 Park Light Output	30 seconds	(-) Park Light	<b>(+)Park Light</b>
3 Siren Timing	5ms	50ms	<b>10ms</b>
4 The Button Output	Trunk	N/A	<b>Car Finder</b>
5 Siren/ Horn Output*	Horn	<b>Siren</b>	

<b>Menu 3 -Press *</b>	1 Flash	2 Flashes	3 Flashes
1 Lock/ Unlock Type	Type 1	Type 2	<b>Normal</b>
2 Gas/ Diesel	Negative	15 second	<b>Gas/Positive</b>
3 Rearm Output	Type 1	Type 2	<b>Rearm</b>
4 Run Time	4 Min	45 Min	<b>15 Min</b>
5 Crank Time	10 seconds	3 seconds	<b>5 seconds</b>
6 Starter Disable/GWR	Active	Passive	<b>GWR</b>
7 Safety Start**	2 Press Start	<b>1 Press Start</b>	

<b>Menu 4 -Press #</b>	1 Flash	2 Flashes	3 Flashes
1 Low Idle Learn	<b>Low Idle Learn</b>		
2 Adjust For Over Crank	<b>Reduced by 10%</b>		
3 Adjust For under Crank	<b>Increased by 10%</b>		

**Bold type indicates settings that are Factory Default.**

\*Available on 2270/4270/4265 series ONLY.

\*\*Not available on 3270/3265 and 4270/4265 series.

See the following pages for more detailed programming instructions.



# Menu 1- User Settings



Ignition 3x  
On/Off  
On/Off On



Press and  
Release the  
Program  
Button



Press and  
Release the  
button for  
Menu 1



Press and Release  
the Program Button  
Number of Times for  
the Setting Chosen



Press and Hold  
the Program Button  
to Change Option

## Setting 1 Ignition Auto Lock

- |                       |                         |  |
|-----------------------|-------------------------|--|
| 1) Enable             | 1 Flash/Chirp           | Doors Lock/Unlock with Ignition key.             |
| 2) Ignition Lock Only | 2 Flashes/Chirps        | Doors Lock when ignition is turned "ON" only.    |
| <b>*3) Disable</b>    | <b>3 Flashes/Chirps</b> | <b>Lock/Unlock with remote transmitter ONLY.</b> |

Press & Release the Program Button 1 Time (Setting 1) Confirmed with 1 LED flash.

Press & Hold the Program Button until the appropriate # of park lights/siren chirps, then release

Press & Release the Program Button to proceed to the next step.

## Setting 2 Siren/Horn Chirp Settings (14 pin auxiliary connector, pin 5)

- |                               |                         |                                   |
|-------------------------------|-------------------------|-----------------------------------|
| 1) Lock/Unlock chirps Disable | 1 Flash/Chirp           | Chirps for Panic/Car Finder Only. |
| 2) Lock/Unlock chirps Enable  | 2 Flashes/Chirps        | No Chirps for Start ONLY          |
| <b>*3) All Chirps Enable</b>  | <b>3 Flashes/Chirps</b> | <b>Chirps for all features.</b>   |

Press & Release the Program Button 2 Times (Setting 2) Confirmed with 2 LED flashes.

Press & Hold the Program Button until the appropriate # of park lights/siren chirps, then release.

Press & Release the Program Button to proceed to the next step.

## Setting 3 Door Lock Options

- |                                      |                         |  |
|--------------------------------------|-------------------------|--|
| 1) Double Unlock Pulse               | 1 Flash/Chirp           | .75 Second lock & 2 unlock pulses          |
| 2) 3 Second Lock & Unlock            | 2 Flashes/Chirps        | 3 Second Lock & Unlock Pulses              |
| <b>*3) .75 Sec Lock &amp; Unlock</b> | <b>3 Flashes/Chirps</b> | <b>.75 Second Lock &amp; Unlock Pulses</b> |

Press & Release the Program Button 3 Times (Setting 3) Confirmed with 3 LED flashes.

Press & Hold the Program Button until the appropriate # of park lights/siren chirps, then release.

Press & Release the Program Button to proceed to the next step.

## Setting 4 Door Unlock & Disarm Pulse Duration

- |                          |                         |   |
|--------------------------|-------------------------|---|
| 1) Short Pulses          | 1 Flash/Chirp           | 125ms pulses on Unlock & Disarm outputs                 |
| <b>*2) Normal Pulses</b> | <b>2 Flashes/Chirps</b> | <b>750ms pulses on Lock/Unlock &amp; Disarm outputs</b> |

Press & Release the Program Button 4 Times (Setting 4) Confirmed with 4 LED flashes.

Press & Hold the Program Button until the appropriate # of park lights/siren chirps, then release.

Press & Release the Program Button to proceed to the next step.

## Setting 5 Active/Passive Locks (2270/4270/4265 series ONLY)

- |   |                         |  |
|---|-------------------------|--|
| 1) No Auto-Lock with Passive Arm            | 1 Flash/Chirp           | Doors do not auto-lock with passive arming |
| <b>*2) Doors Auto-Lock with Passive Arm</b> | <b>2 Flashes/Chirps</b> | <b>Doors Lock when passive arming</b>      |

Press & Release the Program Button 4 Times (Setting 5) Confirmed with 5 LED flashes.

Press & Hold the Program Button until the appropriate # of park lights/siren chirps, then release.

Press & Release the Program Button to proceed to the next step.

**\*(Default Settings)**

## Menu 1- User Settings...continued

### Setting 6 Sensor Enable/Disable (2270/4270/4265 series ONLY)

1) Sensor Disabled      1 Flash/Chirp      Impact Sensor Disabled

**\*2) Sensor Enabled      2 Flashes/Chirps      Impact Sensor Enabled**

**Press & Release the Program Button 6 Times** (Setting 6) Confirmed with 6 LED flashes.

**Press & Hold the Program Button** until the appropriate # of park lights/ siren chirps, then release.

**Press & Release the Program Button** to proceed to the next step.

### Setting 7 Passive/Active Arming (2270/4270/4265 series ONLY)

1) Passive Arming      1 Flash/Chirp      Auto Arms 30 seconds after last door is closed

2) Active Arming with Rearm      2 Flashes/Chirps      If unlock is pressed and no door is opened

**\*3) Active Arming      3 Flashes/Chirps      Arms with remote transmitter only**

**Press & Release the Program Button 7 Times** (Setting 7) Confirmed with 7 LED flashes.

**Press & Hold the Program Button** until the appropriate # of park lights/ siren chirps, then release.

**Press & Release the Program Button** to proceed to the next step.

## Menu 2- Additional Settings



Ignition 3x  
On/Off  
On/Off On



Press and  
Release the  
Program  
Button



Press and  
Release the  
ⓘ button for  
Menu 2



Press and Release  
the Program Button  
Number of Times for  
the Setting Chosen



Press and Hold  
the Program Button  
to Change Option

### Setting 1 Secure Valet Mode (time required to set the system into Service Mode)

1) Secure Valet      1 Flash/Chirp      Hold the Program Button for 15 seconds

\*2) Normal Valet      2 Flashes/Chirps      **Hold the Program Button for 5 seconds**

Press & Release the Program Button 1 Time (Setting 1) confirmed 1 LED flashes.

Press & Hold the Program Button until the appropriate # of park light/siren chirps, then release.

Press & Release the Program Button to proceed to the next step.

### Setting 2 Parking Light/Trunk Output (14 pin auxiliary connector, pins 2&8)

1) 30 sec. Output      1 Flash/Chirp      On for 30 seconds when ⓘ is pressed

2) Negative Park Lights      2 Flashes/Chirps      Switches the Park Light/Trunk Outputs

\*3) Park Lights      3 Flashes/Chirps      2 Flashes when ⓘ is pressed

Press & Release the Program Button 2 Times (Setting 2) confirmed 2 LED flashes.

Press & Hold the Program Button until the appropriate # of park light/siren chirps, then release.

Press & Release the Program Button to proceed to the next step.

### Setting 3 Siren Chirp Timing (14 pin auxiliary connector, pin 5)

1) 5 ms Pulse Output      1 Flash/Chirp      Short(Quiet) siren Output

2) 15 ms Pulse Output      2 Flashes/Chirps      Long(Loud) siren Output

\*3) 10 ms Pulse Output      3 Flashes/Chirps      Normal(Medium) siren Output

Press & Release the Program Button 3 Times (Setting 3) confirmed 3 LED flashes.

Press & Hold the Program Button until the appropriate # of park light/siren chirps, then release.

Press & Release the Program Button to proceed to the next step.

### Setting 4 - The ⓘ Button Output

1) Trunk

2) N/A

\*3) Car Finder

Press & Release the Program Button 4 Time (Setting 4) confirmed 4 LED flashes.

Press & Hold the Program Button until the appropriate # of park light/siren chirps, then release.

Press & Release the Program Button to proceed to the next step.

### Setting 5 Siren or Horn Output (2270/4270/4265 series ONLY)

1) Horn Output      1 Flash/Chirp      Pulsed when alarm is triggered or panic.

2) Siren Output      2 Flashes/Chirps      **Constant output when alarm triggered.**

Press & Release the Program Button 5 Time (Setting 5) confirmed 5 LED flashes.

Press & Hold the Program Button until the appropriate # of park light/siren chirps, then release.

Press & Release the Program Button to proceed to the next step

\*(Default Settings)

## Menu 3- Starter Settings



Ignition 3x  
On/Off  
On/Off On



Press and  
Release the  
Program  
Button



Press and  
Release the  
\* button for  
Menu 3



Press and Release  
the Program Button  
Number of Times for  
the Setting Chosen



Press and Hold  
the Program Button  
to Change Option

### Setting 1 Special Door Lock/Unlock Operations (Factory Alarm Rearm).

- 1) Type 1      1 Flash/Chirp      Unlock before start. Lock pulse after start and shutdown.
- 2) Type 2      2 Flashes/Chirps      Lock pulse ONLY after remote start shutdown.
- \*3) Type 3      3 Flashes/Chirps      Default Lock/ Unlock Pulses.**

Press & Release the Program Button 1 Time (Setting 1) Confirmed with 1 LED flashes.

Press & Hold the Program Button until the appropriate # of park lights/siren chirps, then release.

Press & Release the Program Button to proceed to the next step.

### Setting 2 Gas/Diesel Mode (14 pin auxiliary connector, pin 14)

- 1) (-) Input      1 Flash/Honk      (-) Glow Plug input. Waits maximum 30 seconds.
- 2) Time Delay      2 Flashes/Honks      Waits for approximately 15 seconds.
- \*3) Gas/ (+) Input      3 Flashes/Honks      Waits 2 seconds if no diesel input is detected.**

Press & Release the Program Button 2 Times (Setting 2) Confirmed with 2 LED flashes.

Press & Hold the Program Button until the appropriate # of park lights/siren chirps, then release.

Press & Release the Program Button to proceed to the next step.

### Setting 3 Rearm Output (14 pin auxiliary connector, pin 1)

- 1) Type 1      1 Flash/Chirp      Pulse after start and with lock.
- 2) Type 2      2 Flashes/Chirps      Pulse after start only.
- \*3) Factory Re-arm      3 Flashes/Chirps      Pulse with lock and after starter shutdown.**

Press & Release the Program Button 3 Times (Setting 3) Confirmed with 3 LED flashes.

Press & Hold the Program Button until the appropriate # of park lights/siren chirps, then release.

Press & Release the Program Button to proceed to the next step.

### Setting 4 Run Time

- 1) 4 Minutes      1 Flash/Chirp      Runs for approx. 4 minutes when activated.
- 2) 45 Minutes      2 Flashes/Chirps      Runs for approx. 45 minutes when activated.
- \*3) 15 Minutes      3 Flashes/Chirps      Runs for approx. 15 minutes when activated.**

Press & Release the Program Button 4 Times (Setting 4) Confirmed with 4 LED flashes.

Press & Hold the Program Button until the appropriate # of park lights/siren chirps, then release.

Press & Release the Program Button to proceed to the next step.

**\*(Default Settings)**

## Menu 3- Starter Settings - continued

### Setting 5 Maximum Crank Time

- 1) 10 Seconds    1 Flash/Chirp    10 sec max time that the starter will stay engaged.
  - 2) 3 Seconds    2 Flashes/Chirps    3 sec max time that the starter will stay engaged.
  - \*3) 5 Seconds    3 Flashes/Chirps    5 sec max time that the starter will stay engaged.**
- Press & Release the Program Button 5 Times (Setting 5) Confirmed with 5 LED flashes.  
Press & Hold the Program Button until the appropriate # of park lights/siren chirps, then release.  
Press & Release the Program Button to proceed to the next step.

### Setting 6 Anti-Grind/Starter Kill (14 pin auxiliary connector, pin 4)

- 1) Active    1 Flash/Chirp    (-)When locked and during remote start (Anti-Grind).
  - 2) Passive    2 Flashes/Chirps    (-)When locked/30 seconds after ignition is OFF or #2 pressed
  - \*3) GWR    3 Flashes/Chirps    (-) Output during remote start only. (Anti-grind/ Bypass)**
- Press & Release the Program Button 6 Times (Setting 6) Confirmed with 6 LED flashes.  
Press & Hold the Program Button until the appropriate # of park lights/siren chirps, then release.  
Press & Release the Program Button to proceed to the next step.

### Setting 7 Safety Start (Not available on 3270/3265/4270/4265 series)

- 1) 2 Press    1 Flash/Chirp    Must Press the button twice within 3 seconds to start.
  - \*2) 1 Press    2 Flashes/Chirps    Must Pres the button once to start.**
- Press & Release the Program Button 7 Times (Setting 7) Confirmed with 7 LED flashes.  
Press & Hold the Program Button until the appropriate # of park lights/siren chirps, then release.  
Press & Release the Program Button to proceed to the next step.

**\*(Default Settings)**

## Menu 4- Tach Settings



Ignition 3x  
On/Off  
On/Off On



Press and  
Release the  
Program  
Button



Press and  
Release the  
# button for  
Menu 4



Press and Release  
the Program Button  
Number of Times for  
the Setting Chosen



Press and Hold  
the Program Button  
to Change Option

### Setting 1 Low Idle Learn- Same function as doing the Quick Tach Learn.

This option is used for vehicles that maintain a High or Erratic idle after starting and need more than 30 seconds to establish a stable idle.

- 1) Enter Program Mode.
- 2) Press and release the # button on the remote.
- 3) Start the vehicle.
- 4) Press and release the Program Button (LEDs will be flashing one time)
- 5) Press and hold the Program Button for 3 seconds.
- 6) Release the Program Button. LEDs will be on steady to indicate correct tach signal. The park lights will flash twice and the siren will chirp twice to confirm that the tach signal has been learned.

**NOTE:** Must Tach Learn (see page 12) before Low Idle or Quick Tach learn.

### Setting 2 Over-Crank Adjustment.\*\*

- 1) Enter Program Mode.
- 2) Press and release the # button on the remote.
- 3) Press and release the Program Button twice. (LEDs will flash 2 times consecutively)
- 4) Press and hold the Program Button.

**NOTE:** The park lights will flash and the siren will chirp one time each time the park lights flash and the siren chirps the setting is increased.

- 5) Release the Program Button. (Exit Program Mode and test remote starter)

### Setting 3 Under-Crank Adjustment.\*\*

- 1) Enter Program Mode.
- 2) Press and release the # button on the remote.
- 3) Press and release the Program Button three times. (LEDs will flash 3 times consecutively)
- 4) Press and hold the Program Button.

**NOTE:** The park lights will flash and the siren will chirp one time each time the park lights flash and the siren chirps the setting is increased.

- 5) Release the Program Button. (Exit Program Mode and test remote starter)

**\*\*Repeat steps 1-5 if necessary.**

## Remote Transmitter Learn

**STEP 1** - Within 3 seconds turn the ignition key to the “ON” position three times leaving “ON” the third time.



**STEP 2** - **Press and hold the Program Button.** The park lights will turn “ON” and the siren will chirp once. **Continue to hold the Program Button**, the park lights will turn “OFF” and the siren will chirp 5 times quickly.



**NOTE:** If the parking lights do not turn “ON”, release the Program Button and turn the ignition to the “OFF” position, wait 5sec and repeat steps 1 & 2.

**STEP 3** - While holding the Program Button, press and release the button on each of the remote transmitters to be programmed

**NOTE:** The system will respond with one chirp when a code is learned.

## Battery Replacement

The transmitter battery should be changed at least once every year to maintain proper operating range. Replace with a quality 23A 12volt Alkaline battery (1-Way remote). Replace with a quality 1.5V battery (2-Way remote).

## Shock Sensor 2270/4270/4265 series

### Shock Sensor Programming/ Adjustment

#### To enter shock sensor programming:

Press and hold the **(i)** and the **(j)** buttons for three seconds.  
The park lights will flash and the siren will three times.

While the park lights are "ON", strike the vehicle with the amount of force wanted to trigger the alarm.

**NOTE:** The siren will chirp 3 times each time the system detects impact.

#### Adjusting the shock sensor:

Press and release **(i)** to increase sensitivity (up to 10 chirps/ flashes).  
Press and release **(j)** to decrease sensitivity (down to 1 chirp/ flash).

**NOTE:** Be careful not to impact the vehicle in a area that may cause damage.  
The most common location for testing and setting the shock sensor is the vehicles A-pillar. The A-Pillar is the metal support that runs from the roof of the vehicle to the hood area.

#### To exit and save shock sensor programming:

Press and hold the **(i)** and the **(j)** buttons, the siren will chirp and the park lights will flash the number of times of the shock sensor impact level chosen.

*Example: Level 5 = 5 Chirps/ 5 Park Light flashes*

## IMPORTANT SECURITY NOTES!

If the system has been triggered (shock sensor, door input..), the siren will sound for approximately 60 seconds. Press and release the **(i)** or the **(j)** button to silence the siren (the system will remain armed).

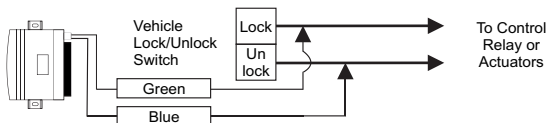
Press and hold the **(i)** button to disarm the system. The siren and park lights will flash three times to indicate the system had been triggered.



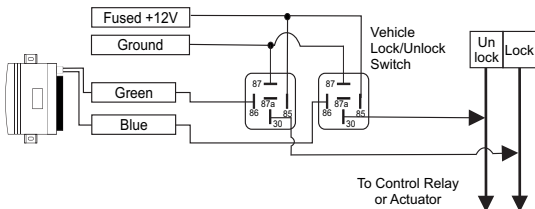
## **Install Notes**

## Door Lock Relay Wiring Diagrams

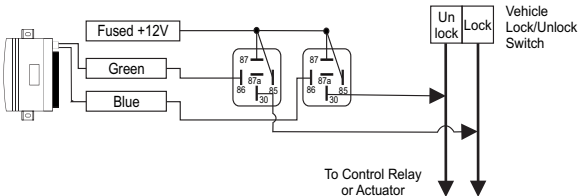
### Negative Type Door Locks 250ma



### Negative Door Locks (More Than 250ma)



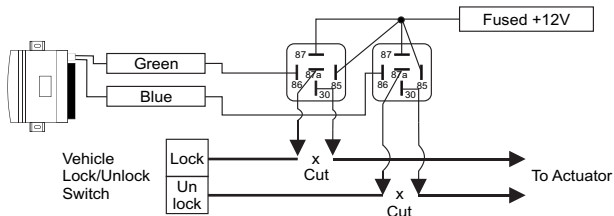
### Positive Type Door Locks



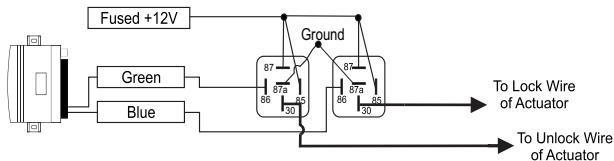
**NOTE: When installing relays always use a fused power source.**

## Door Lock Relay Wiring Diagrams

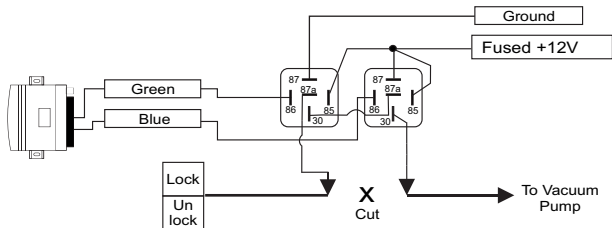
### 5 Wire / Reverse Polarity Type Door Locks



### Aftermarket Doorlock Actuators




### Vacuum Type Door Locks



**NOTE: When installing relays always use a fused power source.**

## DIAGNOSTICS

If the remote starter does not activate when the start button is pressed the park lights will flash a diagnostic to indicate what shutdown input has been triggered. For example: *If the  button is pressed the park lights flash 3 times slowly.* Looking at the chart below this would indicate that the system is in Service Mode, simply follow the instructions listed in the owners manual on exiting Service Mode and the remote starter will begin to function as normal.

### PARK LIGHTS

3 Slow Flashes  
5 Flashes  
5 Slow Flashes  
6 Flashes  
7 Flashes

### STATUS LED

LEDs "ON" Solid  
Series of 5 Flashes  
Series of 5 Flashes  
Series of 6 Flashes  
Series of 7 Flashes

### DIAGNOSTIC CODE

System Is In Service Mode  
Hood Open  
Ignition On During Start Attempt  
Brake Pedal Shutdown  
Tach Lock-Out

## DIAGNOSTIC MEMORY

### LED Flashes

5 Flashes  
6 Flashes  
7 Flashes  
8 Flashes

### Diagnostic

The system was shutdown by the brake switch input  
The system was shutdown by the hood pin input  
The system did not detect the tach signal.  
The system made 3 start attempts without starting

### To Enter Diagnostic Memory Mode:

**Step 1-** Turn the ignition ON then OFF. Press and release the Program Button.

**Step 2-** The system will respond with three park light flashes and the horn (optional) will honk the same number of times as the events in memory.  
*Maximum four events, four honks*

**NOTE:** If the horn does not honk, there are no events in memory.

**Step 3-** Press the Program Button once to view the last shut down code. The horn (optional) will honk once to confirm code one.  
*If the horn does not honk, there are no codes in memory.*

**Step 4-** The LEDs on the antenna will flash a code corresponding to a shut down trigger. Press the Program Button again for the second code.  
*The horn will honk twice to confirm code two.*

**Step 5-** To **Clear Diagnostic Memory.** While in Diagnostic Mode press and hold the Program Button for five seconds. The park lights will flash and the horn (optional) will honk once.

**NOTE:** Once diagnostic memory has 4 shutdown events in memory, the system will not Record any further shutdown events until the system memory has been cleared.