INSTALL GUIDE

Covers All 25xx and 26xx Series Remote Starter/ Alarms

REMOTE STARTERS

CAR ALARMS

ULTRA START

GO THE DISTANCE!

WWW.ULTRASTARTERS.COM

Technical Support

Support@ultrastarters.com

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

ATTENTION

-The system must be placed into Service Mode before any service work is started on the vehicle. It is the sole responsibility of the vehicle owner to ensure that this is done. The manufacturer accepts no liability or responsibility for accidental starting of the vehicle.
- CARBON MONOXIDE - Never Start in an Enclosed Building (Garage, Carport etc...)
- The Hood Pin Safety Switch Must Always be Installed!

Version.02

Table of Contents

Components

- Control module
- Antenna with built in
- Program Button and LED's
- Multi-tone Siren
- 14 pin harness
- 4 pin keyless entry harness
- Hood pin safety switch
- Installation and Owner Manuals
- 2 4 button transmitters*
- 6 pin main harness with dual 30 amp power inputs.
- 3 pin auxiliary output harness
- 4 pin Auxiliary sensor harness
- 2 pin Temperature Sensor (LT Models)
- Starter disable harness

* The 26xx comes with two 6 button remote transmitters

Feature List

- Auto Tach learning with Quick Learn option
- Starter Kill/ Anti-Grind Protection
- Remote Panic Feature
- Programmable Wait to Start
- Service Mode (Valet)
- Active/Passive Arming
- Run Time 4/ 15 or 45 minutes
- Door Locks .125s/ .75s/3.0s/Double Unlock
- Turbo Timer Mode
- Engine Idle Mode
- System Override Protection
- Dual Car Operation
- Park Light Diagnostics
- Program 4 Transmitter Codes
- Ignition Auto Lock
- Dual Stage Shock Sensor
- Cold Start With Four Start Intervals or Temp Mode (LT Models Only)

Recommended Pre-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 vehicle lighting system, warning lights or check engine lights. Check if the vehicle has a factory security or anti-theft. (Transponder or PASS-LOCK system) 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 to test for wires in the vehicle. Use only a Circuit Safe test light or digital Volt/Ohm Meter. It is the sole responsibility of the installer to test and verify all connections

Note: This remote starter system is designed for fuel injected and diesel engines.

If the vehicle is a manual transmission, a "M" series remote starter must be installed. Any model number followed by the letter "M" is specially designed for manual transmission vehicles. The "M" series remote starter will not work in an automatic transmission vehicle.

Recommended Installation Procedures

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 manufacturer 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.

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.

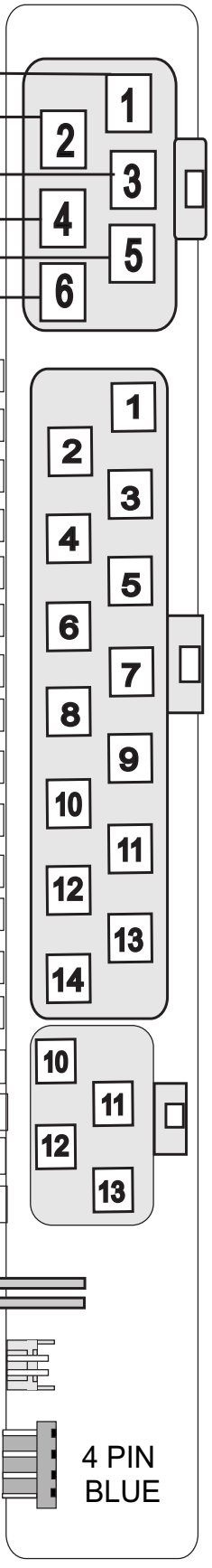
Mounting The Control Module -

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.

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 Tachless 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

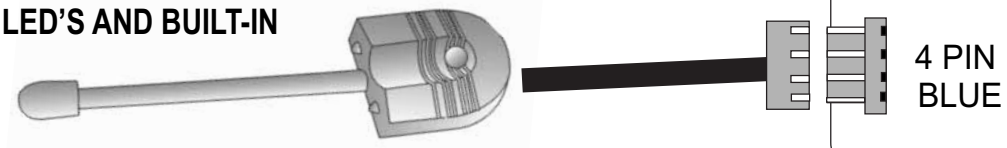
(+) 30amp Output	Starter	Yellow
(+) 30amp Output	Heater	Green
(+) 30amp Input	Main Power	Red
(+) 30amp Input	Main Power	Red
(+) 30amp Output	Selectable	White
(+) 30amp Output	Ignition 1	Blue
(-)250ma Output	FACTORY RE-ARM	YELLOW
(-)250ma Output	STARTER DISABLE	ORANGE
(-)250ma Output	FACTORY DISARM	BROWN
(-)250ma Output	TRUNK RELEASE	RED/WHITE
(-)250ma Output	(-) WHEN RUNNING	WHITE/VIOLET
Negative Input	(-) DOOR TRIGGER	GREEN
Negative Input	HOOD PIN INPUT	GREEN/WHITE
Positive Input	(+) DOOR TRIGGER	PURPLE
Positive Input	BRAKE SWITCH	PINK
Negative Input	GROUND	BLACK
(A/C) Input	TACH INPUT	BLUE/WHT
(-) Input	GLOW PLUG	BLUE
Positive 15amp	PARK LIGHTS	WHITE
Negative Input	PARK BRAKE	BLACK/WHITE
(-)500ma Output	LED OUTPUT	White /Green
(-)500ma Output	DOME LIGHT SUPERVISION	Black
Positive 3 amp	SIREN OUTPUT	White /Blue
Negative Input	TRUNK PIN INPUT	Red



30 AMP STARTER DISABLE RELAY- NORMALLY CONNECTED

OPTIONAL TEMPERATURE SENSOR (LT MODELS)

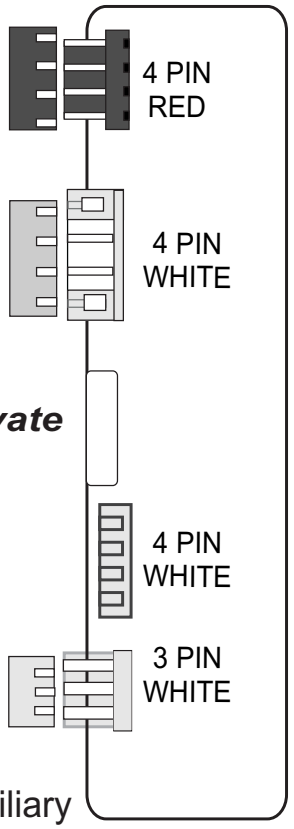
FM ANTENNA WITH DUAL LED'S AND BUILT-IN PROGRAM SWITCH.*



***The antenna must be connected for the system to operate.**

Side View

(-)250ma Output	Door Lock	Green
(+)250ma Output	12volt Inverter Output	Red
(-)250ma Output	Door Unlock	Blue
(-)250ma Output	Passenger Door Unlock	Pink
(-)Input	Sensor Pre-Warn Input	Blue
(-) Input	Sensor Full-Warn Input	Green
(-)250ma Output	Sensor Ground Output	Black
(+)250ma Output	Sensor 12V+ Power Output	Red
Programmable*	AUX #1 (Hold 1&3)*/ (-) HORN OUTPUT*	Green
Programmable	AUXILIARY OUTPUT #2 (Hold 2&3)	Pink
(+) Input	(+)DISCONNECT/ (+) START INPUT**	Blue



Note-250ma outputs are low current and are designed to activate relays

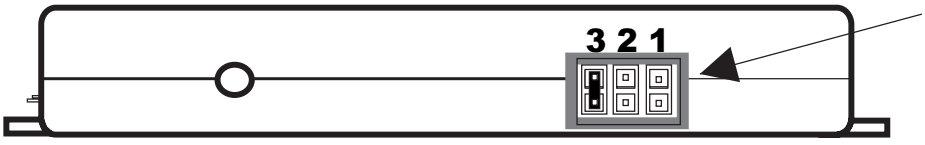
*The default output of the Green wire is Negative Horn Output. The auxiliary outputs must be programmed on before they will operate.

Jumper Selections - Back View

The jumpers control the output from the White wire on the 6- pin harness. This is a **30amp relayed output**. To change the output of the wire access the jumpers by sliding the plastic cover off the top of the case. Move the jumper to one of the following positions.

If the jumper is in position #1 the output on the white wire will be **2nd Starter**
If the jumper is in position #2 the output on the white wire will be **2nd Accessory**
If the jumper is in position #3 the output on the white wire will be **2nd Ignition**

Note: The factory default setting of the selectable output jumper is position #3 second ignition output.



6 Pin Power Connector

6-pin	Description	Test For Wire
1-Yellow	30amp Starter Output	This wire will test 0volts in off, accessory and in the ignition position.12volts during start only.
2-Green	30amp Heat/Acc Output	This wire will test 0volts in the off position 12-14volts in the accessory and run positions and 0 volts during start
3-Red	30amp Power Input	12volts at ignition harness or from battery. Supplies power for the ignition, selectable output and park light relays.
4-Red	30amp Power Input	12volt power at ignition harness or from battery. Supplies power for accessory and start relays
5-Blue	30amp Ignition Output	This wire will test 0volts in the off and accessory position 12volts in the ignition, start and run.
6-White	30amp Select Output	*Selectable output for 2nd Ign, acc or starter.*

14 pin connector

14 Pin	Function	Description
1-Yellow	Re-Arm	0.75 second Pulsed output when locked and on remote start shutdown. Used for factory alarm re-arm. *Programmable output. See Menu 3*
2-Orange	St.kill and Anti-Grind	Negative output when locked and during remote start. Used for optional starter disable, and anti-grind relay. Pr*ogrammable output. See Menu 3*
3-Brown	Disarm	0.75sec pulsed output when Unlocked and pulse before remote start activation. Used for Factory Alarm Disarm.
4-Red/Wht	Trunk Release	Hold the unlock button for 3 seconds. Output will stay on until the unlock button is released (Max 5 seconds *Programmable to (-)Park lights.*
5-Wht/Violet	GWR	(-) Output while remote starter is activated. Used to activate Anti-thef bypass modules.
6- Green	(-) Door Pin	Input to detect door opening. Connect to door pin that switches to (-) when the door is opened.
7-Green/ White	Hood Pin	Negative input from hood pin safety switch. Switch is grounded when the hood is opened.
8-Purple	(+) Door Pin	Input to detect door opening. Connect to door pin that switches to 12volts when the door opened.
9-Pink	Brake input	Positive Brake Input. Used to detect the brake switch being applied. Found at the brake switch connector.
10-Black	Ground	System Chassis Ground Input.

Continued on next page.

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14 Pin Connector

11-Blue/White	Tach	A/C Tach Signal Input. Used to detect when the vehicle has started. This wire is connected to the vehicles coil, fuel injector or crank sensor wire.
12-Blue	Glow Plug	Diesel Glow plug input, detects both 12volt and negative glow plug signals. Programmable input.
13-White	Park Lights	+10amp park light output. At light harness 0volts when Park lights are off, 12volts when park lights are on.
14-Black/ White	Park Brake	Input to detect Park Brake Switch. Connect to wire at the switch that switches to (-) when the switch is applied.

4 Pin Connector Square

White/Green	LED Output	Pulsed negative output for LED activation.
Black	Dome Light	Negative Output For Dome Light Supervision.
White/Blue	Siren	Positive Output For Siren.
Red	Trunk Pin	Negative Input For Trunk Pin Switch.

3 Pin Connector Red

1-Green	Door Lock	Door Lock Output - Programmable **Menu 1**
2-Red	12vlt Output	Output For Door Lock Module Only!
3-Blue	Door Unlock	Door Unlock Output - Programmable **Menu 1**
4-Pink	2nd Unlock	Output when button #2 is pressed twice.

***** *The centre pin of the keyless entry harness is not to be used for anything besides plug-in devices such as the VP-1, DL-3, DL-7 and Data Bus Modules. Overloading this output will damage the remote starter.*

3 Pin Connector White

Green*	Auxiliary 1	Programmable Output. Press buttons #1 and #3
Pink	Auxiliary 2	Programmable Output. Press buttons #2 and #3
Blue	(+) Disconnect	(+) Disconnect Or Instant Start Trigger.

*The default setting of the green wire is Negative Horn Output.

Auxiliary outputs are designed to work with the 26xx Series.

2 Pin Connector White

If the Temperature Sensor is installed the Cold Start Mode will operate by monitoring temperate. If the sensor is not installed the Cold Start Mode will function as Timer Mode. The temperature sensor can be installed under the hood strapped to the radiator hose to monitor coolant temperature or left mounted under the dash to monitor ambient air temperature.

Step 1 - Connect All Of the Following Wires

6 Pin Power Connector

Yellow	30amp Starter Output	*12volts during start position only.*
Green	30amp Heater Output	*12volts in the accessory position off during start and 12volts during run.*
Red	30amp Power Input	*Constant 12volt power at ignition harness or from battery.*
Red	30amp Power Input	*Constant 12volt power at ignition harness or from battery.*
Blue	30amp Ignition Output	*12volts in the ignition, start and when run positions.*
White*	30amp Select Output	*Selectable Output for vehicles that require 2nd Ign, Acc or Starter wires.*

***Note:** The white wire may not be required on all vehicles.*

14 Pin Connector

Black	System Ground Input	Connect to Chassis Ground.
White	Park Light Output	Connect to (+) Park Light system.
Green/Wht	Hood Pin Input	Connect to the Hood Pin Safety Switch.
Blue/Wht	Tach	Connect To A/C Tach Source.
Pink	Brake Switch	Connect To (+) When Brakes Is Applied.
Wht/Blue	Siren	Connect to Siren Positive Activation.
Green*	(-) Door Pin Input	Connect to door pin (-) when doors opened
Purple*	(+) Door Pin Input	Connect to door pin (+) when doors opened

** Connect only one of the door pin inputs. If the vehicle has a positive door pin system connect the purple wire, if negative connect the green wire.*

Manual Transmission Connections (”M” Models Only)

Black/Wht	Park Brake Input	Connect to Park Brake wire.

Never install an automatic module into a manual transmission vehicle!

Step 2- Plug-In The Module

When all the connections are done, the control module can be plugged in. Before connecting the control module, make sure the ignition is in the **OFF** position. Plug in the 6 pin harness and the Auxiliary harness, then any other connectors that were used. The park lights will flash and the siren will chirp 2 times to confirm power up on automatic transmission models. Manual transmission models will flash the park lights and chirp the siren 4 times to confirm power up.

Step 1 - Connect All Of the Following Wires

6 Pin Power Connector

Yellow	**30amp Starter Output**	*12volts during start position only.*
Green	**30amp Heater Output**	*12volts in the accessory position off during start and 12volts during the run position.*
Red	**30amp Power Input**	*Constant 12volt power at ignition harness or battery.*
Red	**30amp Power Input**	*Constant 12volt power at ignition harness or battery.*
Blue	**30amp Ignition Output**	*12volts in the ignition, start and when run positions.*
White	**30amp Select Output***	*Selectable Output for vehicles that require 2nd Ign, Acc or Starter wires. See jumper diagram.*

Note*: The white wire may not be required on all vehicles.*

Auxiliary Connectors

Black	**System Ground Input** - *Connect to Chassis Ground.*
White	**Park Light Output** - *Connect to (+) Park Light system.*
Green/Wht	**Hood Pin Input** - *Connect to the Hood Pin Safety Switch.*
Blue/White	**Tach** - *Connect To A/C Tach Source. (Above 2volts AC)*
Pink	**Brake Switch** - *Connect To (+) When Brakes Is Applied.*
White/Blue	**Siren Output** - Connect to Siren/Horn

Manual Transmission Connections ("M" Models Only)

Black/Wht	**Park Brake Input** - *Connect to Park Brake wire.*
Green*	**(-) Door Pin Input** - *Connect to door pin (-) when doors opened.*
Purple*	**(+) Door Pin Input** - *Connect to door pin (+) when doors opened.*

Note: *Connect only one of the door pin inputs. If the vehicle has a positive door pin system connect the purple wire, if negative connect the green wire.*

Never install an automatic module into a manual transmission vehicle!

Step 2- Plug-In The Module

*When all the connections are done, the control module can be plugged in. Before connecting the control module, make sure the ignition is in the **OFF** position. Plug in the 6 pin harness and the Auxiliary harness, then any other connectors that were used. The park lights will flash and the horn will chirp 2 times to confirm power up on automatic transmission models. Manual transmission models will flash the park lights and siren 4 times to confirm power up.*

Manual Transmission "M" Models

Never install an automatic transmission remote starter into a manual transmission vehicle!!! Doing so may result in serious injury or death. Do not install remote starters in convertible vehicles! The following wires must be connected In addition to the basic remote starter installation.

Park Brake Input- This wire is located at the park brake switch. The wire will switch to (-) when the park brake is applied. Never connect the Black/White wire straight to a ground!!!

(-) Door Pin Input- A negative door pin wire will be (+) or neutral when the door is closed then switch to (-) when the door is opened. Always ensure that **all** the vehicles doors are sensed by this wire.

(+) Door Pin Input- A positive door pin wire will be (-) or neutral when the door is closed then switch to (+) when the door is opened. Always ensure that **all** the vehicles doors are sensed by this wire.

***If any Door Pin Switches or the Park Brake Switch is not working correctly...

"DO NOT INSTALL UNTIL THE VEHICLE IS REPAIRED!!!"***

Note: Tachless Mode does not work with manual transmission remote starters.

Clutch Bypass - In most cases the clutch switch will need to bypassed during remote Starting. This is a temporary bypass, **t**he clutch switch should never be disconnected or altered to not work as it is indented to"As a Safety Switch**"**. The clutch switch is usually a 2 wire switch mounted directly to the clutch pedal. There are several types of clutch switches that operate in one of the following ways.

Type 1 - Starter Wire Bypass - The starter wire travels form the key switch through the clutch switch to the starter motor. Connect the Remote Starters Starter Output wire directly to the starter motor side of the clutch switch.

Type 2 - Negative (High Current) This switch grounds the factory starter relay and allows the vehicle to start. Connect a relay to ground the clutch switch wire when the remote starter is activated. The starter wire is connected at the ignition switch.

Type 3 - Connect Switch Install a relay to connect the two wires at the switch when the remote starter is activated. The starter wire is connected at the ignition switch.

Type 4 - Disconnect Switch Install a relay to disconnect one of the wires at the clutch switch. The starter wire is connected at the ignition switch.

Testing for the correct wire is critical! Never connect to a circuit if you are not sure of it's operation. Contact your dealer or technical support for more information.

Auto Tach Learn

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**, then after 30-35 seconds the park lights will flash and the siren will chirp twice to confirm Tach Learn.

*** 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 good reset the system and repeat step #1.**

**** If the LEDs do not come on during tach learn, a proper tach signal was not detected.**

If not tach learned the system will flash the park lights seven times when the start button is pressed. The system must be Tach Learned before remote starting.

Note: 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 preformed 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 15 for system reset.

Your Basic Install Is Complete!

NOTES:

1) **If the vehicle does not start when the remote starter is activated, check if the park lights are flashing a diagnostic code. See diagnostic chart.**
2) **If the vehicle still does not start, check all connections and check for factory Anti-Theft system.**

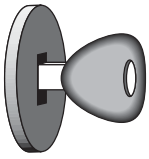
Note: If the vehicle is not starting correctly it may be necessary to adjust the tach. See page 13 for Quick Tach Learn.

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

Start the vehicle with the key.



Hold the brake pedal.

Press and release the program button, then press and hold.

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 is was learned at.
The Following steps can be used to learn tach at a more suitable idle:

1) Start the vehicle and leave running by the ignition key until the engine idles down.
2) Press and hold the brake pedal.
3) Press and release the Program Button (Located on the antenna) then press and hold.
4) The park lights will flash to confirm Quick Learn Tach*.

Note: The remote starter must be Tach Learned before the Quick Tach Learn feature will operate.

TIP- "Manual Low Idle Learn". While in the tach learning mode firmly apply the park brake then hold the brake pedal. Place the transmission into reverse gear and wait for the park lights to flash confirming Tach Learn.

Entering Program Mode

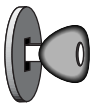
1) With the ignition in the OFF position, turn the ignition key from "Off" to "On" 3 times, ON-OFF-ON-OFF-ON within three seconds. (Leave the key in the ON position)
2) Press and release the Program Button located on the antenna. The park lights will flash and the siren will chirp to confirm entering program mode.
3) Select desired Program Menu (See below). The park lights will flash and 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 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…

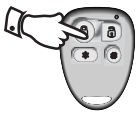
b) *Press and Hold* the Program Button until the park lights flash and the horn(optional) chirps to confirm the desired setting. *For example*: 1 flash/chirp= Setting 1; 2 flashes/chirps= Setting 2; 3 flashes/chirps= Setting 3.

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. 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.

Note: *If unit does not enter Program mode, turn ignition off for 5 seconds and repeat steps 1-4.*


Ignition 3x On/Off On/Off On


Press and Release


Press the Lock button for Menu 1


Press the Unlock button for Menu 2


Press the Start button for Menu 3


Press the # Button for Menu 4

Program Menus

Quick View Programming

*** See the following pages for more detailed programming instructions.**

Menu 1 - Press Lock	1 Flash	2 Flashes	3 Flashes
1 Ignition Lock	Enabled	Lock Only	**Disabled**
2 Siren Chirp	Type 1	Type 2	**All Chirps**
3 Lock&Unlock Options	Double Unlock	3 second	**.75 second**
4 Unlock/Disarm	125ms	**750ms**	
5. Passive Locks	Enable	**Disable**	
6. Shock Sensor	Disable	**Enable**	
7. Passive Arming	Type 1	Type 2	**Disable**
8. Auxiliary Outputs	Type 1	Type 2	**Disable**
Menu 2 -Press Unlock	1 Flash	2 Flashes	3 Flashes
1 Secure Service Mode	15 seconds	**5 seconds**	
2 Park Light Output	30 seconds	(-) Park Light	**Light Flash**
3 Horn Timing	5ms	50ms	**10ms**
4 # Button	Trunk Release	Garage Door	**Car Finder**
5 Reservation Mode	Manual	**Auto Reservation- Manual Models**	
Menu 3 -Press Start	1 Flash	2 Flashes	3 Flashes
1 Lock/ Unlock Type	Type 1	Type 2	**Normal**
2 Gas/ Diesel	Negative	15 second	**Gas/ Positive**
3 Rearm Output	Type 1	Type 2	**Rearm**
4 Run Time	4 Min	45 Min	**15 Min**
5 Crank Time	10 seconds	3 seconds	**5 seconds**
6 Starter Disable/GWR	Active	Passive	**GWR**
7 Safety Start Mode	Press twice	**Press once**	
8 Programmable Input	(+) Instant Start	**(+) Disconnect**	
Menu 4 -Press #	1 Flash	2 Flashes	3 Flashes
1 Low Idle Learn	**Low Idle Learn**		
2 Adjust For Over Crank	**Reduced by 10%**		
3 Adjust For under Crank	**Increased by 10%**		

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

System Reset

The system reset will clear any changes made to the Program Menu's as well as the Tach setting. When the system reset is complete the system must be Tach learned before the remote starter will operate.

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 will chirp one time.

3) Then press and hold the **Program Button** until the park lights flash and the siren will chirp 3 times slowly to confirm system reset.

***System is now reset to factory defaults*.**

Note: System Reset **<u>does not</u>** delete the transmitter codes from memory.

Menu 1- User Settings

Ignition **ON-OFF-ON-OFF-ON**
Press & Release **Program Button**
Press **Lock Button**

Setting 1 Ignition Auto Lock

1) Ignition Lock & Unlock **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.
***3) Ignition Auto Lock Disable**	**3 Flashes/Chirps**	**Doors do not Lock/Unlock with Ignition key.**

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 Chirp Settings (White/Blue on 4pin)

1) Lock & Unlock chirps **Disable**	1 Flash/Chirp	Chirps for Panic/Car Finder **Only**.
2) Lock & Unlock chirps **Enable**	2 Flashes/Chirps	Chirps for Lock/Unlock/Panic/Car Finder **Only**
***3) All Chirps Enable**	**3 Flashes/Chirps**	**Chirps for all features.**

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/sirenChirps, 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
***3) .75 Sec Lock & Unlock**	**3 Flashes/Chirps**	**.75 Second Lock & Unlock Pulses**

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
***2) Normal Pulses**	**2 Flashes/Chirps**	**750ms pulses on Lock/Unlock & Disarm outputs**

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.

Menu 1- User Settings...continued from previous page

Setting 5 Active/Passive Locks

1) No Auto-Lock with Passive Arm 1 Flash/Chirp No auto-lock with passive arming
***2) Doors Auto-Lock with Passive Arm 2 Flashes/Chirps Doors Lock when passive arming**
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 Sensor Enable/Disable

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

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.

Setting 8 Auxiliary Outputs-26xx series only

1) Type 1 1 Flash/chirp Auxiliary outputs Activated
2) Type 2 2 Flashes/chirps Auxiliary output without unlock/ disarm
***3) No Auxiliary 3 Flashes/chirps Negative park light output**
Press & Release the Program Button 8 Times (Setting 8) Confirmed with 8 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.

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***(Default Settings)**

Menu 2 - Additional Settings

Ignition **ON-OFF-ON-OFF-ON**
Press & Release **Program Button**
Press **Unlock Button**

Setting 1 Secure Valet Mode - Length of 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/sirenchirps, then release.
Press & Release the Program Button to proceed to the next step

Setting 2 Parking Light/Trunk Output (White and Red/White on 14-pin)

1) 30 sec. Output	1 Flash/chirp	Park Lights on for 30 seconds when Unlock is pressed
2) Negative Park Lights	2 Flashes/chirps	Switches the Park Lights/Trunk Outputs
***3) Park Lights**	**3 Flashes/chirps**	**2 Park Light Flashes when Unlock 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 Horn chirp Timing (White/Blue on 4-pin) *Must be programmed for horn output.

1) 5 ms Pulse Output	1 Flash/chirp	Short(Quiet) Horn Output Pulses
2) 15 ms Pulse Output	2 Flashes/chirps	Long(Loud) Horn Output Pulses
***3) 10 ms Pulse Output**	**3 Flashes/chirps**	**Normal(Medium) Horn Output Pulses**

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 # Button

1) Trunk Release	1 Flash/chirp	# button activates trunk release.
2) Garage door	2 Flashes/chirps	# button activates optional garage door interface.
3) Car Finder	**3 Flashes/chirps**	**# Button Activates Car Finder Mode**

Press & Release the Program Button 4 Time (Setting 4) confirmed 4 LED flashes.
Press & Hold the Program Button until the appropriate # of park light/sirne chirps, then release.
Press & Release the Program Button to proceed to the next step.

Setting 5 Reservation Mode ("M" units only)

1) Manual Reservation	1 Flash/chirp	Activate Reservation Mode by pressing Button #4
***2) Auto Reservation**	**2 Flashes/chirps**	**Activate Reservation Mode by pressing brake**

***(Default Settings)**

Menu 3- Starter Settings

Ignition **ON-OFF-ON-OFF-ON**
Press & Release **Program Button**
Press **Button #3**

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

1) Type 1	1 Flash/chirp	Unlock before start. Lock pulse after start and on 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 14pin Connector- Gas/Diesel Mode (Blue wire on 14-pin)

1) (-) Input	1 Flash/chirp	(-) Glow Plug input. Waits maximum 30 seconds then starts.
2) Time Delay	2 Flashes/chirps	Waits for approximately 15 seconds then remote starts.
***3) Gas/ (+) Input**	**3 Flashes/chirps**	**Waits 2 seconds to start 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 (Yellow wire on 14-pin)

1) Type 1	1 Flash/chirp	Pulse after start and with lock. (Provides Lock Pulse)
2) Type 2	2 Flashes/chirps	Pulse after start only. (Provides Lock Pulse)
***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 approximately 4 minutes when activated.
2) 45 Minutes	2 Flashes/chirps	Runs for approximately 45 minutes when activated.
***3) 15 Minutes**	**3 Flashes/chirps**	**Runs for approximately 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.

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 (Orange wire on 14-pin)
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 unlock is pressed
***3) Anti-grind 3 Flashes/chirps Output during remote start only. (Anti-grind/ Bypass module)**
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
1) Safety On 1 Flash/chirp Press the start button twice within 3seconds to remote start vehicle.
*2) Safety Off 2 Flashes/chirps Press the start button once to remote start vehicle.
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.

Setting 8 Positive disconnect/ Instant Start (Blue wire on 3-pin side connector)
1) Instant Start 1 Flash/chirp 12volt trigger will activate remote starter
*2) (+) Disconnect 2 Flashes/chirps Removing 12volts from this wire will trigger alarm.
Press & Release the Program Button 8 Times (Setting 8) Confirmed with 8 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 4- Tach Settings

Setting 1 Auto Tach Learn.
1) Perform a System Reset. **See page 15.**
2) Turn the ignition key on. (Park lights will turn on).
3) Start the vehicle, the LEDs on the antenna will come on when a proper tach signal is detected*.
4) After approximately 30-35 seconds the park lights will go out then will flash twice and the siren will chirp twice to confirm that a tach signal has been learned.

Setting 2 Over-Crank Adjustment.**
1) Enter Program Mode (turn ignition ON-OFF-ON-OFF-ON), press and release the Program Button.
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. The park lights flash and the siren will chirp one time.
*Each time the park lights flash and the siren chirps the setting is reduced.
5) Release the Program Button. (Exit Program Mode and test remote starter)

Setting 3 Under-Crank Adjustment.**
1) Enter Program Mode (turn ignition ON-OFF-ON-OFF-ON), press and release the Program Button.
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. 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)

Transmitter Programming

Step 1 - Within 3 seconds turn the ignition ON-OFF-ON-OFF-ON - **Leaving Key ON**
Step 2 - Press and **hold** the Program Button - The park Lights will turn ON and the siren will chirp once. If the park lights do not come on at this point, turn the ignition key off for 5 seconds, then repeat step 1.
Step 3 - **Continue to hold the Program Button**, the park lights will turn off and the Siren will chirp 5 times quickly.
Step 4 - While holding the Program Button, press the **LOCK** button on each of the remote's to be programmed. If remote's are being programmed for 2nd Car Operation press the **#** button on each of the **2nd car** remote's to be programmed. The park lights will flash once and the horn will honk once each time a new code is learned.

Note: Transmitter programming must done quickly. Do not pause more than one second between each transmitter. **All the transmitters** to be used must be programmed at the same time. **All transmitters not programmed at this time will be erased from memory for security. The system holds a maximum of 4 transmitter Codes including 2nd car remote codes.**

Ignition 3x
On/Off
On/Off On

Press and
HOLD the
Program
Button

Press the
Lock Button

Single Car Operation,
Program up to 4 remote's

Press the
Lock Button

Press the
Button

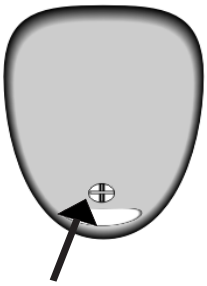
Dual Car, Control 2 Ultra
Start vehicles with the same remote

Press the
Button

Battery Replacement

The transmitter battery should be changed at least once every year to maintain proper operating range. Replace with quality23A 12volt Alkaline battery.

Step #1

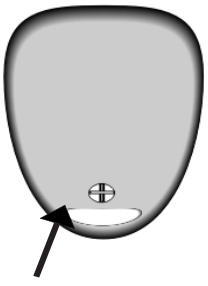


Carefully remove the screw from the back of the remote.

Step #2

Remove the top case Then replace the battery.

Step #3

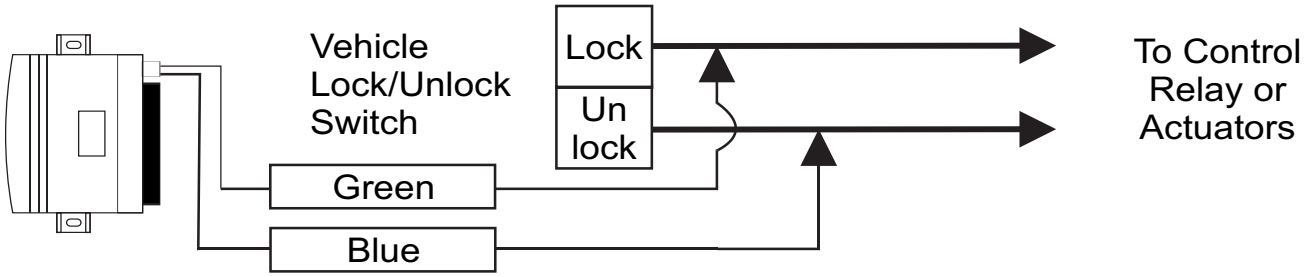


Replace top case. Re-install screw.

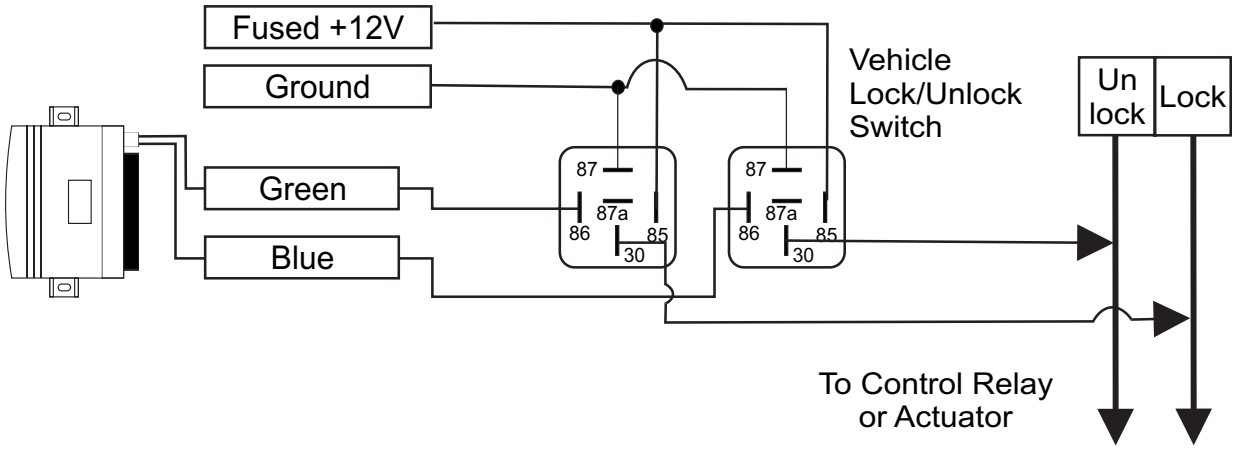
Step #4

Test remote for proper operation.

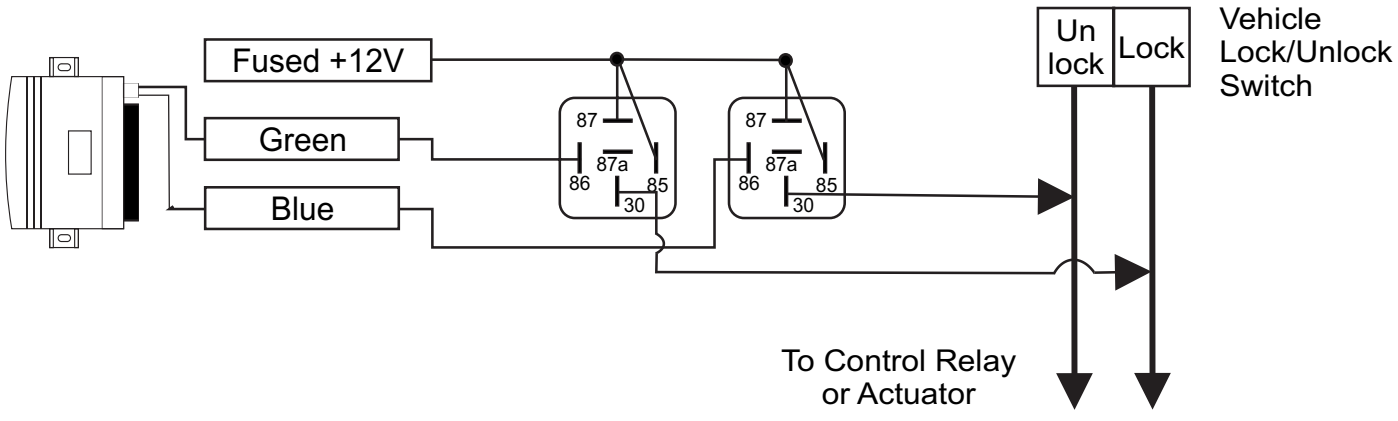
Negative Type Door Locks 250ma



Negative Door Locks (More Than 250ma)

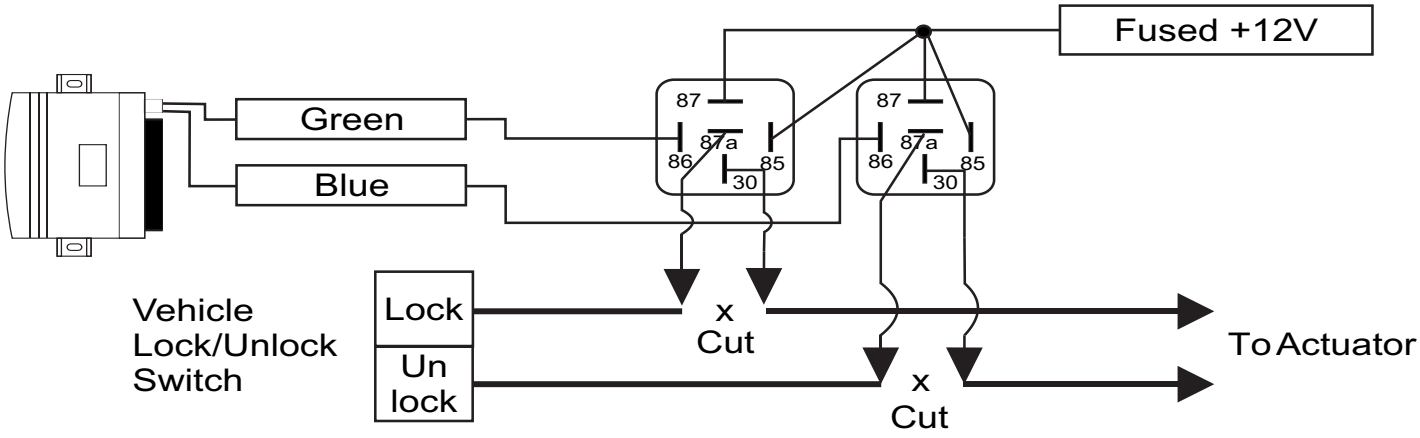


Positive Type Door Locks

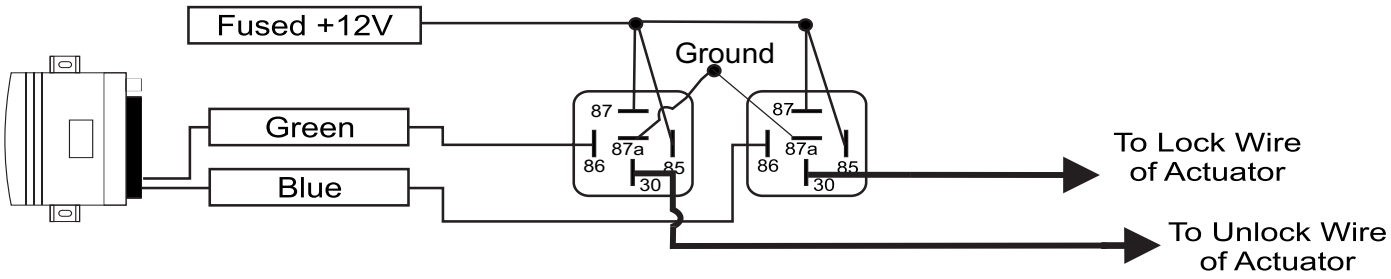


Note: ***When installing relays always use a fused power source.***

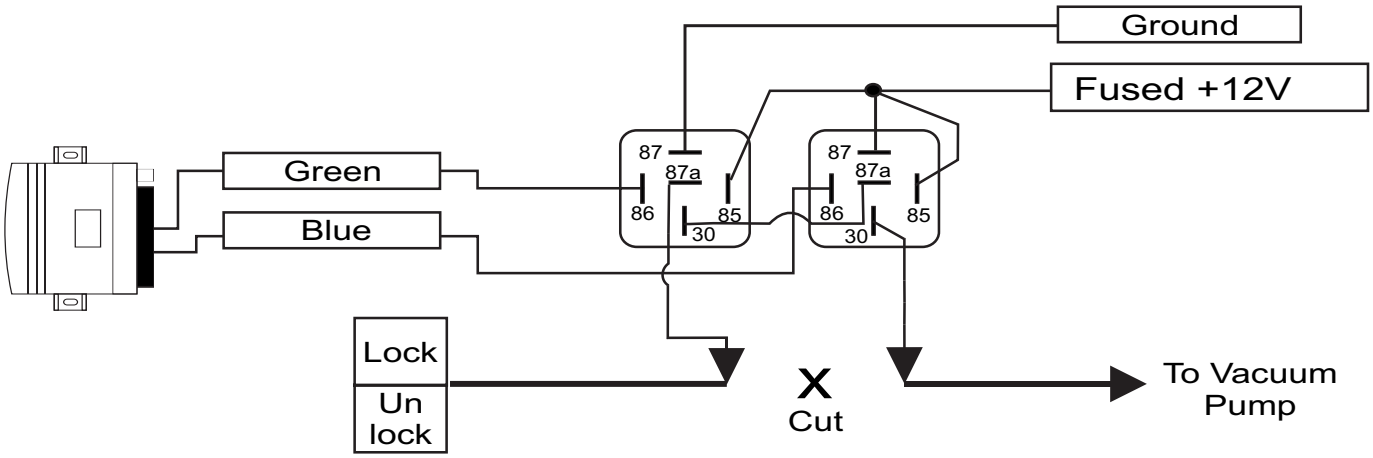
5 Wire / Reverse Polarity Type Door Locks



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 when the start 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	STATUS LED	DIAGNOSTIC CODE
3 Flashes	Series of 3 Flashes	Door Opened “M” Models
3 Slow Flashes	LED’s On Solid	System Is In Service Mode
4 Slow Flashes	Series of 4 Flashes	Not in Reservation Mode “M” units
5 Flashes	Series of 5 Flashes	Hood Pin Opened
5 Slow Flashes	Series of 5 Flashes	Ignition On During Start Attempt
6 Flashes	Series of 6 Flashes	Brake Pedal Shutdown
7 Flashes	Series of 7 Flashes	Tach Lock-Out

DIAGNOSTIC MEMORY

LED Flashes	Diagnostic
5 Flashes	The system was shutdown by the brake switch input
6 Flashes	The system was shutdown by the hood pin input
7 Flashes	The system did not detect the tach signal.
8 Flashes	The system made 3 start attempts without starting

Being that the installer does not always see when the system shuts down or fails to start, Diagnostic Memory will store in memory up to four shutdown codes.
This information can then be accessed to determine the source of the shutdown.

To Enter Diagnostic Mode:

Step 1 - Turn the ignition on then turn off. Press the Program Button and release.

Step 2 - The system will respond with three park light flashes and the siren will chirp the same number of times as the events in memory.
Maximum four events, four chirps

NOTE: If the siren does not chirp, there are no events in memory.

Step 3 - Press the Program Button once to view the last shut down code. The siren will chirp once to confirm code one.
If the horn does not chirp, 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 to check the second code.
The siren will chirp 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 siren will chirp 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.