

INSTALLATION GUIDE

1500
1500M

**Advanced Remote Vehicle
Starter**

1500 Automatic and Manual Trans

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N Version

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DIAGNOSTICS

PARK LIGHTS

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

STATUS LED

Series of 3 Flashes
 No Flashes
 No Flashes
 Series of 4 Flashes
 Series of 5 Flashes
 Series of 6 Flashes
 Series of 7 Flashes

DIAGNOSTIC CODE

Door Opened "M" Models
 Start Attempt In Service Mode(Valet)
 Hood/Brake Triggered Before Start
 Not in Reservation Mode "M" units
 Hood Pin Grounded (Open)
 Brake Pedal Shutdown
 Tach Lock-Out

If the remote starter has a failed start attempt or if a safety input is activated the Diagnostic Memory will store up to four shutdowns in memory. This information can then be accessed to determine the source of the shutdown.

To Enter Diagnostic Mode:

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

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

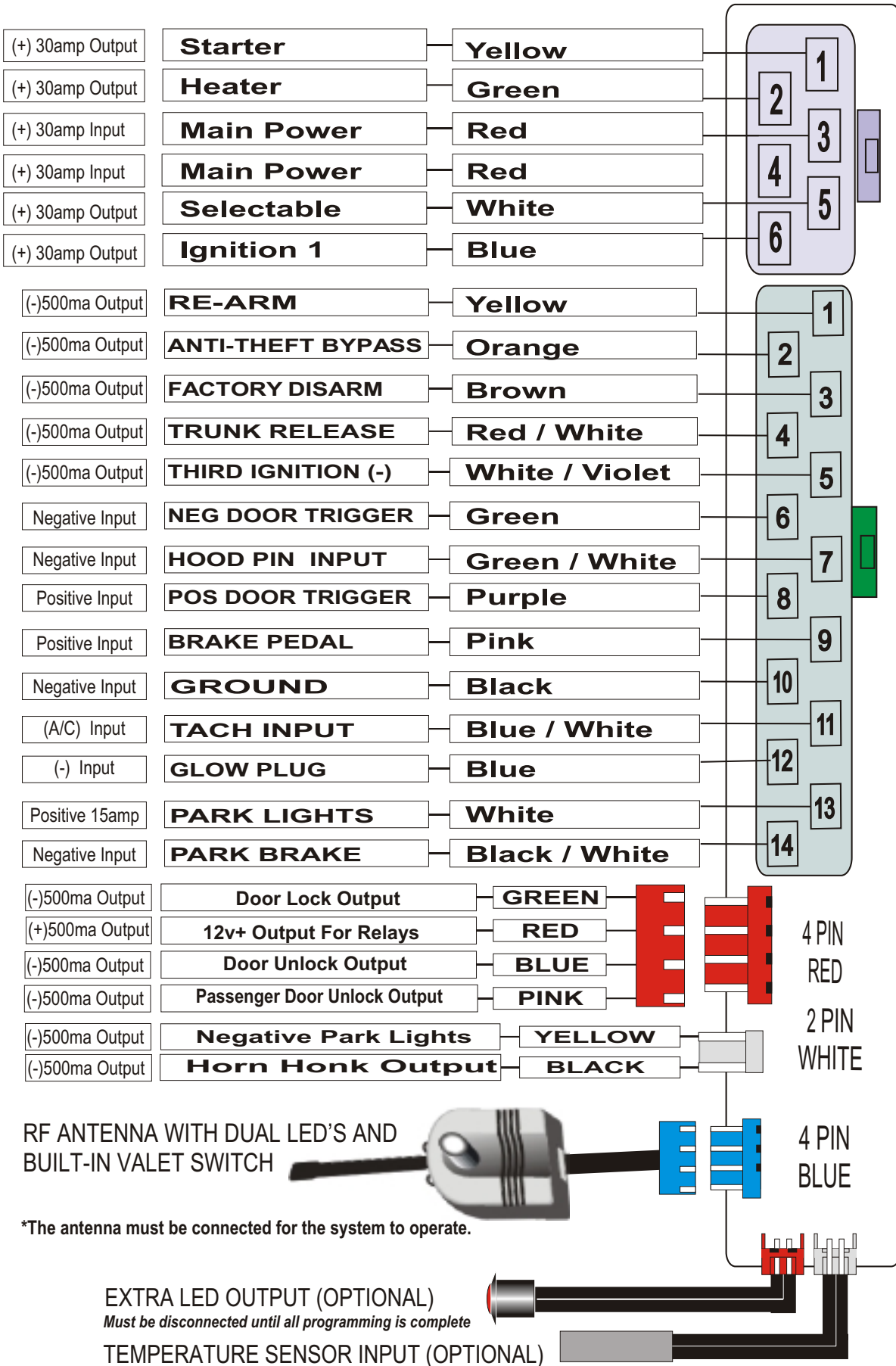
NOTE: If the horn does not honk, there are no events in memory.

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

Step 4 - The LED's on the antenna will flash a code corresponding to a shut down trigger. Press the Program Button again to check 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.

Jumpers - See Page 5



Components

- Control module
- Remote transmitter(s)
- Antenna with built in Program Button and LED's
- 6 pin main harness with dual 30amp power inputs.
- 14 pin harness
- 4 pin keyless entry harness
- Hood pin safety switch
- Installation guide
- Owners manual

Recommended Pre-Installation Procedures

BEFORE STARTING INSTALLATION:

- Discuss the optional features with the customer.
- Take a few minutes to review the installation and owners manuals.
- Check if the vehicle has a factory security or anti-theft system.
*If equipped, inform the customer of addition parts and labour.
- Do a walk around the vehicle and check for any damage.
- If installing a LED discuss the placement with customer before installing.

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

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 a FIRE. 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 wires through the firewall into the engine compartment. Always try to pull the wires through a factory rubber grommet. If drilling through the firewall, **BE CAREFUL**. Check for obstructions on both sides of the firewall. After drilling use a snap in grommet to protect the wires from sharp edges.

Installing the External Long Range Antenna - To insure the best possible reception, place the antenna in the center of the windshield, behind the rear view mirror. Before attaching to the glass ensure that the surface is clean and dry. For best results with range, place the antenna below the tint screen. 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.

NOTE: This step is not used on Alarm Only Units with no External Antenna.

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 and clutch as gas pedals 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.

ATTENTION: Hood Pin MUST always be connected!!

NOTE: Always inform user to place system in Service Mode before any service work is performed on the vehicle.

6 Pin Power Connector

Yellow	Starter	30amp output	12volts during crank only.
Green	Heater	30amp output	12volts in accessory off during start.
Red	12 power	30amp input	Constant 12volt power at ignition harness.
Red	12 power	30amp input	Constant 12volt power at ignition harness.
Blue	Ignition 1	30amp output	12volts in ignition and start positions.
White	Selectable	30amp output	Selectable Output. See bottom of page.

14 Pin Connector

Yellow	Re-Arm	0.75sec Pulse With Lock And On Shutdown.
Orange	Starter Kill	Negative While Locked. Starter kill output. - **Starter Program Mode.
Brown	Disarm	0.75sec Pulse With Unlock And Before Start.
Red/White	3rd CH	Trunk Release - Active When The Unlock Button Is Held For 3seconds.
Wht/Violet	(-) Out	Negative Output While Remote Started.
Green	(-) Door	Negative Door Trigger Input - Manual Trans And Alarm Units Only.
Green/White	Hood Pin	Negative Hood Pin Input - MUST BE CONNECTED!!
Purple	(+) Door	Positive Door Trigger Input - Manual Trans And Alarm Units Only.
Pink	Brake	Positive Brake Input - MUST BE CONNECTED!!
Black	Ground	System Ground Input - MUST BE CONNECTED!!
Blue/White	Tach	Tach Signal Input - MUST BE CONNECTED!!
Blue	Glow Plug	Negative Glow Plug Input - DIESEL ENGINE ONLY. **See Starter Program Mode
White	Park Lights	Positive Park light Output - 10 Amp Max.
Black/White	Park Brake	Negative Park Brake Input - Manual Transmission Models Only.

4 Pin Connector Red

Green	Door Lock	Door Lock Output - Programmable - Menu 1 Setting 3.
Red	12 Volts	Low Current output for voltage inverter
Blue	Door Unlock	Door Unlock Output - Programmable - Menu 1 Setting 3.
Pink	2nd Unlock	2nd Unlock Output - Programmable - Menu 1 Setting 3.

2 Pin Connector White

Yellow	(-) Park Lights	Negative output for negative park light system.
Black	(-) Horn	Negative output for horn activation.

Jumper Selections

Position One	Second Starter Output On the White Wire From The 6-Pin Connector.
Position Two	Second Accessory Output On The White Wire From The 6-Pin Connector.
Position Three	Second Ignition* Output On The White Wire From The 6-Pin Connector.

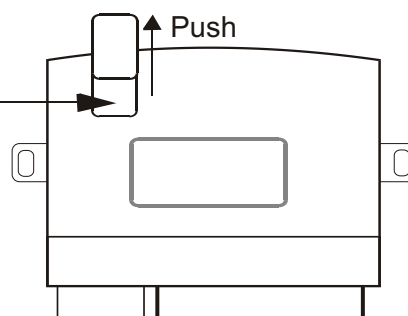
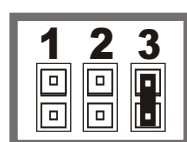
* The Default Setting For The System Is Second Ignition Output.

To change the jumper position you must first remove the access cover as shown in the diagram below. The access cover will slide out of its position when pushed outwards from the center of the module.

The jumpers control the output on the white wire from the six pin harness. To change the output of this wire, place the jumper in one of the following positions

Note: The default setting is second ignition.

Output on White wire	Jumper position
Second Starter	Position 1
Second Accessory	Position 2
Second Ignition	Position 3



QUICK START INSTALL**Step 1 - Connect All Of the Following Wires****6 Pin Power Connector**

Yellow	Starter Output	Connect To The Vehicles Starter Wire.
Green	Heater Output	Connect To The Vehicles Accessory Wire.
Red	12 power Input	Connect to Constant 12 Volt Power Source- High Current.
Red	12 power Input	Connect to Constant 12 Volt Power Source- High Current.
Blue	Ignition 1 Output	Connect To the Vehicles Primary Ignition.
White	Selectable	Jumper Selectable. See page 5

14 Pin Power Connector

Black	System Ground	Connect To Chassis Ground.
Pink	Brake Switch	Connect To (+) When Brakes Applied.
White	Park Lights	Connect To (+) Park Light System.
Green/White	Hood Pin	Connect To Hood Pin Switch.
Blue/White	Tach	Connect To A/C Tach Source.

Manual Transmissions Only

Blue or Green	Door Trigger Input	Connect to Door Trigger
Black/White	Park Brake	Connect (-) Parking Brake

NOTE: Manual Transmission units MUST be set into RESERVATION mode to remote start. See page 10 for details.

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 then the 14 pin followed by any other connectors that were used.

Step 3- Auto Tach Learn

- 1) Make all the required wire connections and plug-in the Unit.
**The park lights should flash twice upon power up.
- 2) Turn the Ignition Key ON. (Park Lights will turn on).
- 3) Start the vehicle, LED's on antenna will come when proper tach signal is detected**, then after two to ten seconds the park lights will turn off then flash twice to confirm tach learning.

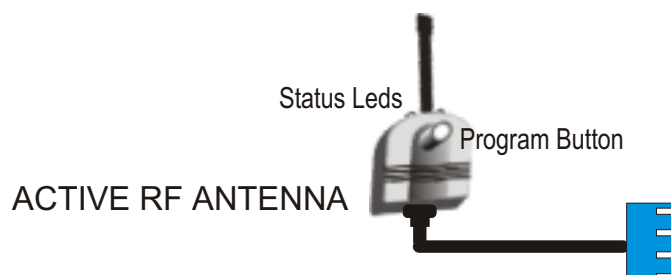
* **The system will flash the park lights seven times if not tach learned and the start button is pressed. The system must be tach learned before remote starting.**

** **If the LED's do not come on during tach learn, a proper tach signal was not detected**

Note: If the park lights do not flash in auto tach learn mode it may be necessary to connect to a different tach source. For best results connect the tach wire to the coil pack or to a fuel injector wire. **See Page 8 for tach adjustment.**

Your Basic Install Is Complete!**NOTES:**

- 1) **If the unit does not start, check the starter is not in Tach Lock Out or in Program Mode.**
- 2) **If the vehicle still does not start, check all connections and check for factory security.**



Programming Overview

Program mode allows you to adjust the settings and options of your system.

Your system has been intelligently designed by installers with years of experience. The system's default settings do not require any program changes in most cases. However, this system does incorporate a highly advanced programming system that includes 3 menus with numerous options and settings that can be easily adjusted for custom installations and applications.

User Settings - Page 8

This program menu contains settings that adjust the way the system operates for the user.

Starter Settings - Page 9

This menu controls features and settings associated with remote car starter applications.

Tach Settings - Page 8

This menu allows the programming of the tach signal and the manual adjustment of that setting.

Entering Program Mode

To Enter Program Mode

- 1) Make sure ignition is in the off position.
- 2) Within three seconds turn the key ON - OFF - ON - OFF - ON. **Leave in the "ON" position.**
- 3) Press and release the Program Button on the antenna 1 time.
- 4) Park lights will come on and the horn (optional) will honk to confirm entering program mode.
- 5) Select Desired Program Menu by the following:

Press Button #1	Lock	User Options	Page 8
Press Button #3	Start	Remote Start Options	Page 9
Press Button #4	Aux	Tach Adjustment Menu	Page 8

- 6) The selected mode will be confirmed by a horn honk (*if connected*) and one park light flash.
- 7) The program menu may be changed at any time by pressing the transmitter buttons as above, this allows the installer to change a setting from one menu, then quickly jump to another menu and change another setting without re-entering the Program Mode.
- 8) Turning off the ignition or 30 seconds of no activity will exit the Program Mode. This will be confirmed by 1 long horn honk and park light flash.

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

** The first ignition (Blue wire) **MUST** be connected to the vehicle's first ignition wire. If it is not connected it will not be possible to enter the Program Modes.

Changing the Programmable Settings

To Select and Change A Program Setting:

- 1) Enter **Program Mode**.
- 2) Select the desired **Program Menu**. (See pages 8 & 9)
- 3) Press & release the **Program Button** the correct number of times to select the desired Program Setting (*as listed on pages 8 & 9*). The park lights will flash and the horn (optional) will honk to indicate the current setting that is selected.
- 4) Press and hold the Program Button until the parking lights / horn confirm the selected setting. The park lights will flash and the horn (optional) will honk to indicate the option selected within the setting.
- 5) Turn the ignition key "Off" to exit Program Mode.

NOTE: This procedure is listed in detail below each program setting on pages 8 & 9 of this manual.

SYSTEM RESET

STEP 1 - Within 3 seconds turn the key ON-OFF-ON-OFF-ON (Leaving Key ON).

STEP 2 - Press and release the Program Button.

STEP 3 - Park Lights will come ON

STEP 4 - Press the Program Button a second time and hold for 8 seconds until the park lights flash 3 times and siren chirps 3 times.

System is now re-set to factory defaults.

NOTE: Reset to defaults does not delete the transmitters from memory.

PROGRAM MODE - TACH SETTINGS

See page 6 for Auto Tach Learning

Setting 1- Method 2- Low Idle Learn

This option is used for vehicles that maintain a HIGH or erratic idle after starting and need more than 10 seconds to establish a stable idle.

- Step 1 - Enter Program Mode (Ignition ON-OFF-ON-OFF-ON) then press the Program button on the antenna 1 time.
- Step 2 - Enter Program Mode 4 - Press the # button on the remote.(Button #4).
- Step 3 - Start Vehicle - Using the ignition key, make sure not to turn the key off at any time or you will exit programming.
- Step 4 - Press the Program Button - One time (Led will start flashing in single cycles) then press and hold Program Button for (5sec).

Setting 2- Adjust For Over-Crank

- Step 1 - Enter Program Mode (Ignition ON-OFF-ON-OFF-ON) then press the Program button on the antenna 1 time.
- Step 2 - Enter Program Mode 4 - Press the # button on the remote.(Button #4).
- Step 3 - Press the Program Button - **2 times** (Led will start flashing 2 times).
- Step 4 - Press and Hold Program - For 5 seconds until parking lights flash (each time lights flash tach is reduced 5%).
- Step 5 - Release Program - Exit Program Mode and remote start to test.

Setting 3- Adjust For Under-Crank

- Step 1 - Enter Program Mode (Ignition ON-OFF-ON-OFF-ON) then press the Program button on the antenna 1 time.
- Step 2 - Enter Program Mode 4 - Press the # on the remote.(Button #4).
- Step 3 - Press the Program Button - **3 times** (Led will start flashing 3 times).
- Step 4 - Press and Hold Program - For 5 seconds until parking lights flash (each time lights flash tach is increased 5%).
- Step 5 - Release Program - Exit Program Mode then remote start to test.

PROGRAM MODE - USER SETTINGS

Enter USER SETTINGS - Program Mode - See Page 7 for details on entering program mode

Setting 1- Ignition Auto Lock

- | | | |
|----------------------------------|-----------------|--|
| 1 Ignition Lock & Unlock Enabled | 1 Light Flash | Doors Lock / Unlock when the key is turned On/ Off |
| 2 Ignition Lock Only | 2 Light Flashes | Doors Lock when ignition key is turned ON only |
| *3 Ignition Auto Lock Disabled | 3 Light Flashes | Doors do not Lock or Unlock with Ignition key |

Press the Program Switch 1 time to select setting 1 (This will be confirmed by 1 LED flash)

Press and hold the Program Switch until you receive the appropriate # of park light flashes and/or horn honks.

Release the Program Switch. Press the Program momentarily to move to next program step or repeat to change selection.

Setting 2- Horn Honk Settings

- | | | |
|---------------------------------|-----------|--|
| 1 Lock & Unlock chirps Disabled | 1 Flash | Honks for Panic and Car Finder Mode only. |
| 2 Lock & Unlock chirps Enabled | 2 Flashes | Honks for Lock, Unlock, Panic and Car Finder Mode Only. |
| *3 All chirps enabled | 3 Flashes | Honks for Lock, Unlock, Start, Panic and Car Finder Mode. |

Press the Program Switch 2 times to select setting 2 (This will be confirmed by 2 LED flashes)

Press and hold the Program Switch until you receive the appropriate # of park light flashes and/or horn honks

Release the Program Switch. Press the Program momentarily to move to next program step or repeat to change selection.

Setting 3- Door Lock Options

- | | | |
|--------------------------|-----------|--|
| 1 Double Pulse Unlock | 1 Flash | Single .75sec.Lock pulse and double Unlock Pulse |
| 2 3 Second Lock & Unlock | 2 Flashes | 3 second pulses for Lock & Unlock |
| *3 0.75 Second Pulses | 3 Flashes | 0.75 second pulses for Lock and Unlock |

Press the Program Switch 3 times to select setting 3 (This will be confirmed by 3 LED flashes)

Press and hold the Program Switch until you receive the appropriate # of park light flashes and/or horn honks.

Release the Program Switch. Press the Program momentarily to move to next program step or repeat to change selection.

PROGRAM MODE - STARTER SETTINGS

Enter **STARTER Program Mode** - See Page 7 for details on entering program mode

Setting 1- Special Door Lock/ Unlock Operations

1	Chrysler / VW Re-Arm	1 Flash	Unlock pulse before start and a lock pulse after start
2	GM Auto Re-Lock	2 Flashes	Lock pulse after remote starter shuts off
3*	Normal Operation	3 Flashes	No additional re-lock pulses

Press the Program Switch 1 time to select setting 1 (This will be confirmed by 1 LED flash)

Press and hold the Program Switch until you receive the appropriate # of park light flashes and/or horn honks.

Release the Program. Press the Program momentarily to move to next program step or repeat to change selection.

Setting 2- Gas/ Diesel Mode- Blue Wire on 14-Pin

1	Diesel Glow Plug	1 Flash	Waits a Maximum of 3:20 second before starting.
2	Timed Delay	2 Flashes	Ignition ON for 10 seconds before engaging remote starter
3*	Gas Mode operation	3 Flashes	Waits 2 seconds before engaging starter output

Press the Program Switch 2 times to select setting 2 (This will be confirmed by 2 LED flashes)

Press and hold the Program Switch until you receive the appropriate # of park light flashes and/or horn honks.

Release the Program Switch. Press the Program momentarily to move to next program step or repeat to change selection.

Setting 3- Rearm Output- Yellow Wire on 14-Pin

1	Type 1	1 Flash	Pulse after start and with lock
2	Type 2	2 Flashes	Pulse after start only
3*	Factory Re-arm	3 Flashes	0.75 second pulse with lock and after shutdown

Press the Program Switch 3 times to select setting 3 (This will be confirmed by 3 LED flashes)

Press and hold the Program Switch until you receive the appropriate # of park light flashes and/or horn honks.

Release the Program Switch. Press the Program momentarily to move to next program step or repeat to change selection.

Setting 4- Run Time

1	30 Min Run Time	1 Flash	Remote Starter runs for 30min when activated
2	45 Min Run Time	2 Flashes	Remote Starter runs for 45min when activated
3*	15 Min Run Time	3 Flashes	Remote Starter runs for 15 min when activated

Press the Program Switch 4 times to select setting 4 (This will be confirmed by 4 LED flashes)

Press and hold the Program Switch until you receive the appropriate # of park light flashes and/or horn honks.

Release the Program Switch. Press the Program momentarily to move to next program step or repeat to change selection.

Setting 5-Maximum Crank Time

1	10 Seconds	1 Flash	10 sec Max time that starter will stay engaged
2	3 Seconds	2 Flashes	3 sec Max time that starter will stay engaged
3*	5 seconds	3 Flashes	5 sec Max time that starter will stay engaged

Press the Program Switch 5 times to select setting 5 (This will be confirmed by 5 LED flashes)

Press and hold the Program Switch until you receive the appropriate # of park light flashes and/or horn honks.

Release the Program Switch. Press the Program momentarily to move to next program step or repeat to change selection.

Setting 6- Starter Kill/ Bypass Module Output- Orange wire on 14-Pin Con.

1	Active Starter Kill	1 Flash	On when locked, Before ignition and 2 seconds after ignition turns off.
2	Passive Starter Kill	2 Flashes	Same as setting 1 but will arm 60sec after the ignition turns off.
3*	Bypass Module	3 Flashes	Output before ignition. Stays on 2 seconds after ignition turns off.

Press the Program Switch 6 times to select setting 6 (This will be confirmed by 6 LED flashes)

Press and hold the Program Switch until you receive the appropriate # of park light flashes and/or horn honks.

Release the Program Switch. Press the Program momentarily to move to next program step or repeat to change selection.

Setting 7- Safety Start Mode

1	Safety ON	1 Flash	Must press the start button twice to remote start vehicle
2*	Safety OFF	2 Flashes	Press the start button once to remote start vehicle.

Press the Program Switch 7 times to select setting 7 (This will be confirmed by 7 LED flashes)

Press and hold the Program Switch until you receive the appropriate # of park light flashes and/or horn honks.

Release the Program Switch. Press the Program momentarily to move to next program step or repeat to change selection.

1500 OPERATIONS

See Owner's Guide for More Detail on Operations



First Car

- Press Once to Lock Doors and arm alarm (if equipped)
Press 2nd Time & Hold for Constant Lock Output
- Press Once for Unlock doors and Disarm Alarm (if equipped)
Press & Hold for Trunk / Aux Output
- Press Once for Start - (2 Times if programmed for safety start)
Press & Hold for 3 seconds while running to turn off
- Press once and hold for Car Finder
Press & Release then press START and hold for Timer Mode

2nd Car Operation



2nd Car

- = Press Once to Lock Doors and arm alarm (if equipped)
Press 2nd Time & Hold for Constant Lock Output
- = Press Once for Unlock doors and Disarm Alarm (if equipped)
Press & Hold for Trunk / Aux Output
- = Press Once for Start - (2 Times if programmed for safety start)
Press & Hold for 3 seconds while running to turn off
- then = Press & Release then press START and hold for Timer Mode

Cold Start Mode

1. Press & release the # button, then press and hold the button for six seconds, until the parking lights turn "on".
2. While the parking lights are "on" the start cycle can be selected.

1 hour cycle or 0C	Press LOCK button	1 flash
2 hour cycle or -5C	Press UNLOCK button	2 flashes
3 hour cycle or -15C	Press button	3 flashes
4 hour cycle or -25C	Press button	4 flashes
3. System will start vehicle at selected cycle for up to 24 hours.

TO CANCEL COLD START MODE

1. Press & release the # button, then press and hold the button for four seconds.
2. The System will respond with two flashes and two horn honks (optional).

Note: Starting the vehicle with the key or remote starting the vehicle will cancel Cold Start Mode.

Reservation Mode - Manual Trans.

Manual Transmission Remote Starters must have both the door trigger and park brake wires connected. Most installs will require a clutch bypass. This is a temporary bypass. The clutch should only be bypassed during the activation of the remote starter. Never disconnect or alter the switch to be always bypassed. Always use a "M" Series Remote Starter on a manual transmission vehicle.

Never install a automatic Remote Starter model into a manual transmission vehicle. It is not recommended to install a remote starter on a convertible type vehicle. If doing so It is highly recommended that a radar sensor is installed to cover the proximity of the gear shift lever. If the radar sensor is tripped the remote starter will exit Reservation Mode.

To enter Reservation Mode, the following steps must be followed.

- Step 1** - While the vehicle is running, place the transmission in neutral and apply the parking brake.
- Step 2** - Press and release the brake pedal. The park lights will activate.
- Step 3** - Turn the ignition key off and the vehicle will stay running.
- Step 4** - Exit the vehicle and close the door. The vehicle will then shut off*.
- Step 5** - The vehicle can now be safely remote started.

* If the vehicle has a dome light delay, the vehicle may stay running until the dome light turns off. This is normally no longer than 30 seconds. Reservation Mode will automatically be exited if the doors of the vehicle are opened. The set-up mode will then have to be repeated. Reservation Mode Must be set-up each time the vehicle is parked.

Transmitter Programming

Step 1 - Within three seconds turn the ignition Key ON-OFF-ON-OFF-ON - **Leaving Key ON**

Step 2 - Press and hold the Program Switch - Parking Lights will come ON **if park-lights do not come on at this point, turn key off for 5 seconds, the repeat step 1.

Step 3 - Continue to hold the Program Switch until park lights go out.

Step 4 - Press the **LOCK** button on each of **1st car** remotes and press the **#** button on each of the **2nd car** remotes of the transmitters 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 3 transmitter codes including 2nd car remote codes.

You can program the same remote as a 1st car remote in one vehicle and as a 2nd car remote in a second vehicle.

System Service Mode(Valet Mode)



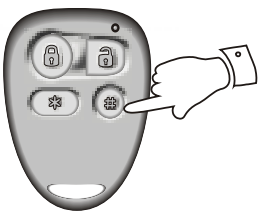
ACTIVATING Service Mode

1. While the ignition is "ON" press and hold the Program Button for five seconds. The park lights will flash five times and the horn (optional) will honk five times to confirm that the system is in Service Mode.
2. While in Service Mode the remote start functions will be disabled and LED's will be "ON" steady. Door locks and trunk release are still operational.

DEACTIVATING Service Mode

1. While the ignition is "ON" press and hold the Program Button for five seconds. The park lights will flash two times and the horn (optional) will honk two times to confirm that the system has exited Service Mode.
2. Remote start functions will return to normal operation.

System Service Mode(Valet Mode) - By Remote



ACTIVATE Service Mode

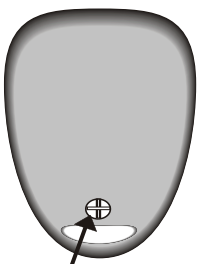
- 1 - Press & Release button 4
 - 2 - Press & Hold Button 4 for 6 seconds until Status LED comes on Steady
- NOTE: If horn is connected the horn will chirp 5 times.

DEACTIVATE Service Mode

- 1 - Press & Release button 4
 - 2 - Press & Hold Button 4 for 6 seconds until Status LED turns off.
- NOTE: If horn is connected the horn will chirp 2 times.

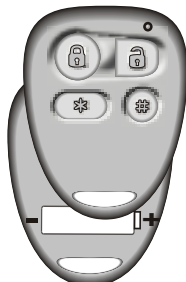
The transmitter battery should be changed at least once every year to maintain proper operating range. Replace with quality 23A 12volt Alkaline battery.

Step #1



Carefully remove the screw from back of the remote.

Step #2



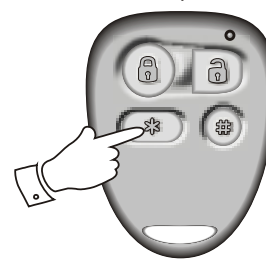
Remove top case then replace the battery.

Step #3



Replace top case. Re-install screw.

Step #4

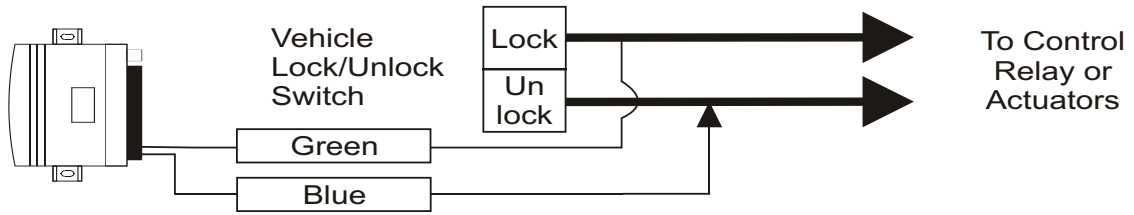


Test remote for proper operation.

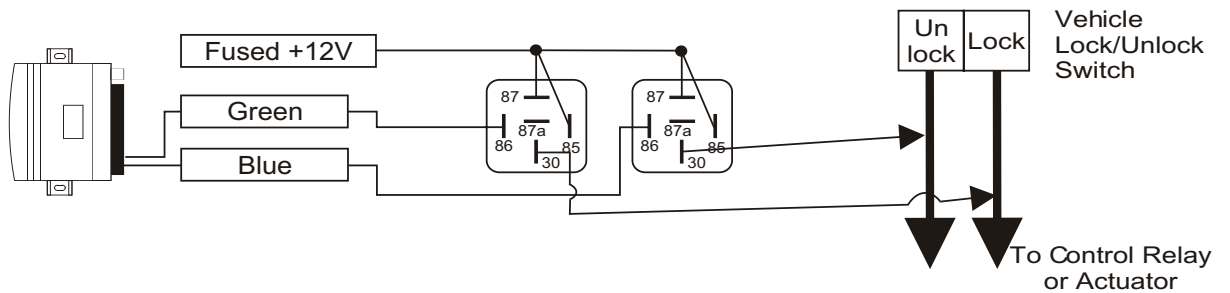
1500 RELAY DIAGRAMS

Installation Guide

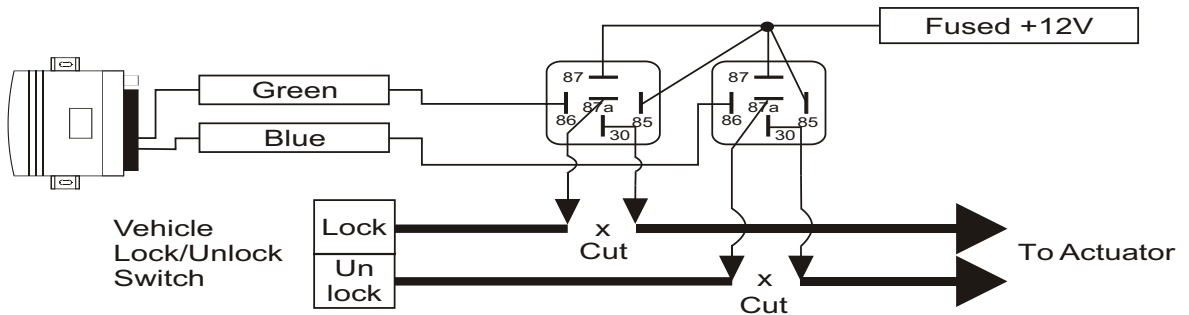
Negative Type Door Locks



Positive Type Door Locks



5 Wire / Reverse Polarity Type Door Locks



Vacuum Type Door Locks

