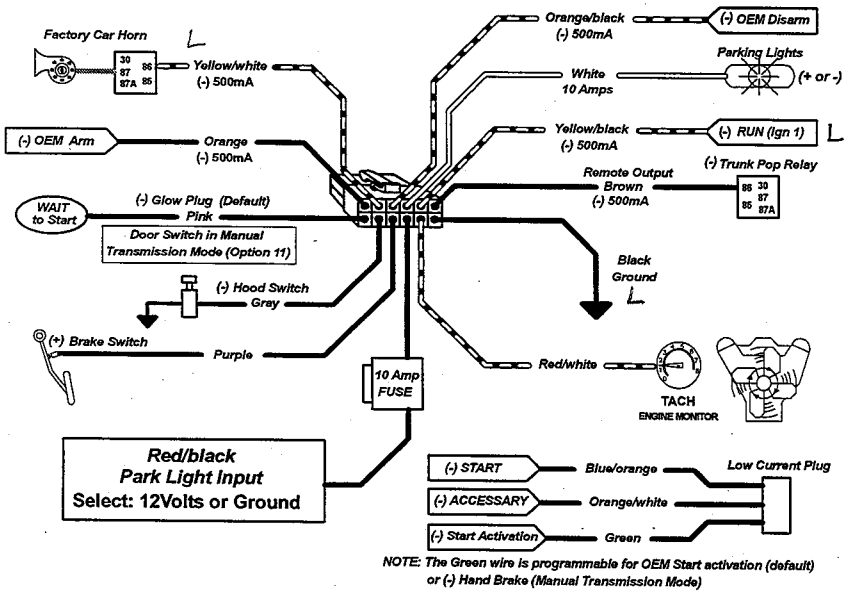
WIRING DIAGRAM



NOTE: The Green wire is programmable for OEM Start activation (default) or (-) Hand Brake (Manual Transmission Mode)

NOTE: The Generation 2 connections have changed from previous units. The Jumper has been removed for the Parking Lights. The wire colors have changed.

CRIMESTOPPER

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CRIMESTOPPER

COOL START

RS-1G2, RS-3G2 and RS-4G2 1-Way Systems

RS-2G2, RS-6G2, RS-7G2 2-Way Systems

Installation Quick Guide

Use this in conjunction with the existing Installation and Operation Instructions. This guide highlights some of the new features of the new Generation 2 systems.

Version 09-27-10

REMOTE START DIAGNOSTICS

New Remote Start Diagnostics flashes the LED and Parking Lights one to seven times when there is a problem (vehicle doesn't remote start). The LED will continue to flashing the error code until the ignition is turned on.

1 Parking Light Flash (1 LED Flash) = Problem with Brake Switch.
2 Parking Light Flashes (2 LED Flashes) = Problem with Hood Switch.
3 Parking Light Flashes (Solid LED) = Valet Service Mode.
5 Parking Light Flashes (5 LED Flashes) = Ignition On before Remote Start.
6 Parking Light Flashes (6 LED Flashes) = Tach Problem (Tach signal without engine running)
7 Parking Light Flashes (7 LED Flashes) = Manual Transmission Error.

Note: In Manual Transmission Mode, the LED will flash 3 times if there is problem with parking park.

NEW OPTION PROGRAMMING Open Hood not Required

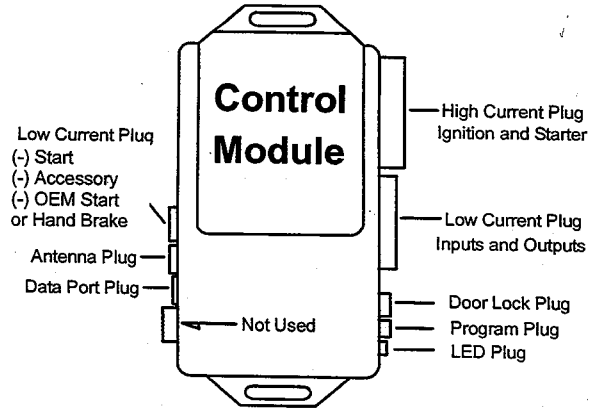
To Engage Option Programming:

1. Press the program Valet button 5 times. Wait for the unit to flash the lights and/or horn honk 5 times.
2. Push the Valet/Program button the number of times that corresponds to the option number desired (1-24X). You must get a light flash and/or honk after each button press. If the system did not flash the lights and/or honk, then it did not register your press. Press carefully and do not lose count.
3. When you reach the desired option #, Press button #1 Lock or #2 Unlock to change the option. Use can also tap the brake pedal to toggle through the option values: Tap brake once (lights flash 1X) Tap the brake pedal again (Lights flash 2X) tap 3 or 4 times for options that have 3 or 4 values.)
5. When finished, turn Ignition OFF check for changed features.

OPTION PROGRAMMING TABLE

#	Option Description	TX Button #1	*TX Button #2 * (Default Value)	TX Button #3	TX Button #4
1	Engine Monitoring	Tach	*Tachless*		Hybrid
2	Autolock	ON	*OFF*		
3	Door Lock Pulse Time	3 Sec.	*0.50 Sec.*	Double Unlock	"Wake Up" pulse on Unlock
4	Pink/white Wire Selection	ACC	*IGN*	START	
5	Dataport Protocol	ADS iDatalink	*Fortin*		
6	Remote Start and trunk release	Double Press	*Single Press*	Press and Hold	
7	Horn Chirps on Remote Start	ON	*OFF*		
8	Lock after Remote Start (to Rearm OEM Alarm System)	OFF	*Lock after Remote Start only*	Lock after Remote Start – Lock / Arm OEM Alarm with Remote Start Abort	Lock / Arm OEM Alarm with Abort only
9	Brown Wire Function	Dome Light	*Trunk pop*	Press and Hold	
10	Unlock before Remote Start (to Disarm OEM Alarm System)	ON	*OFF*		
11	Transmission Type	Manual Transmission with Remote and Hand Brake	*Automatic Transmission*	Manual Transmission with Hand Brake Set	
12	Idle Down Run Time	10 Minutes	*20 Minutes*	30 Minutes	Infinity Run
13	Horn Chirp Confirmation	1 Press	*2 Press*		
14	Unlock with Trunk Pop	Unlock/Trunk pop	*Trunk pop only*		
15	30 Sec. Park Lights with Unlock	OFF	*ON*		
16	Horn Pulse (Chirp)	15 milliseconds	*20 milliseconds*	40 milliseconds	
17	OEM Interface Green input wire	3 pulse	*1 Pulse*		
18	Starter Crank Time	1.2 Sec.	*0.80 Sec.*	1.6 Sec.	3.6 Sec.
19	Diesel Glow Plug Delay	10 Seconds	*Monitor Glow Plug*	15 Seconds	20 Seconds
20	Remote Start Engine Run Time	10 Minutes	*20 Minutes*	30 Minutes	3 Minutes
21	Smart Tachless Voltage Adjustment 80-100%	-1%	*+1%*	Set to 93% default	
22	Turbo Timer	1 minute	*OFF*	3 minutes	5 minutes
23	Unlock on Start Button	ON	*OFF*		
24	Reset Options to default (*)		Reset All *Options*		

CONNECTOR PLUG DIAGRAM

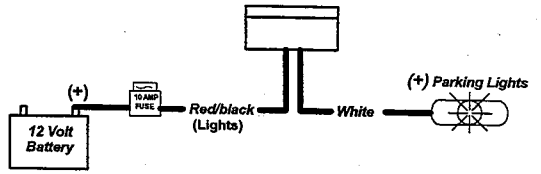


PARKING LIGHTS Circuit - 10 Amp Positive & Negative

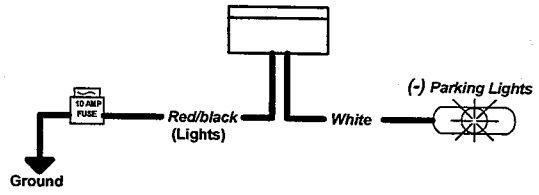
RED/BLACK: Input Source, 12 Volts or Ground
WHITE: PARKING LIGHT OUTPUT

The Parking Light circuit is a high current positive or negative trigger. Connect to vehicle parking light circuit at the back of light switch or if this is not possible, connect directly to one of the parking lights at the front of the vehicle. If your vehicle has a multiplex lighting system, that will require a resistor connected in series with the white wire to the light switch. Use the Negative parking light circuit for Multiplex resistor lights.

Positive Parking Lights



Negative Parking Lights



RS-3G2 and RS-4G2

1-WAY REMOTE START SYSTEM

OPERATING INSTRUCTIONS

CONGRATULATIONS on your choice of a Cool Start™ *Remote Engine Starter and Keyless Entry with DP Technology by Crimestopper Security Products Inc.* This booklet contains the information necessary for operating your system. If any questions arise, contact your installation dealer or Crimestopper Security Products Inc.

IMPORTANT INFORMATION: Primary and Optional Features

-PRIMARY: These are features that must be connected in order for the system to operate properly i.e. Remote Start connections, Flashing lights, and Brake Reset. For programming, the hood pin and program button are required.

-OPTIONAL: These features are to be connected only if desired or agreed upon by the customer and the installing dealer i.e. Door Locks, Trunk Pop, Dome Light Illumination, Horn-Honk, Anti-Grind, etc. These features may also require additional parts and/or labor fees. Consult with your installer beforehand to be sure of what is going to be installed with your particular system.

CRIMESTOPPER SECURITY PRODUCTS, INC.
1770 S. TAPO STREET, SIMI VALLEY, CA. 93063

REV 07-08-2010

This device complies with FCC Rules part 15. Operation is subject to the following two conditions: 1) This device may not cause interference, and (2) this device must accept any interference that may be received, including interference that may cause undesired operation. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this equipment. Such modification could void the user's authority to operate the equipment.

RS-1G2 / RS-3G2 / RS-4G2

RS-00G2 (ADD-ON MODULE)

1 WAY SYSTEMS

REMOTE ENGINE STARTING SYSTEM

INSTALLATION INSTRUCTIONS

INTRODUCTION

CONGRATULATIONS on your choice of a "Cool Start" System with Data Port Technology for direct connection to bypass module by Crimestopper Security Products Inc. This booklet contains the information necessary for installing your remote starter system. If any questions arise, contact your installation dealer or Crimestopper Security Products Inc. at the Tech Support number below.

Note: Some features will not be available on units with 1 button, 3 button, and 4 button remotes.

DISCLAIMER:

This installation book is designed for the installer or individual with an existing understanding of automotive electrical systems, along with the ability to test and connect wires for proper operation. To ease installation, we suggest that you ***READ THIS MANUAL*** *before beginning your installation. This book is provided as a GENERAL GUIDELINE and the information contained herein may differ from your vehicle. Crimestopper Security Products, Inc. and its' vendors shall not be liable for any accident resulting from the use of this product. This system is designed to be professionally installed into a vehicle in which all systems and associated components are in perfect working condition.*

TECHNICAL SUPPORT: (800) 998-6880
Monday - Friday 8:00am - 4:30pm Pacific Std. Time
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E-mail: tech-support@crimestopper.com

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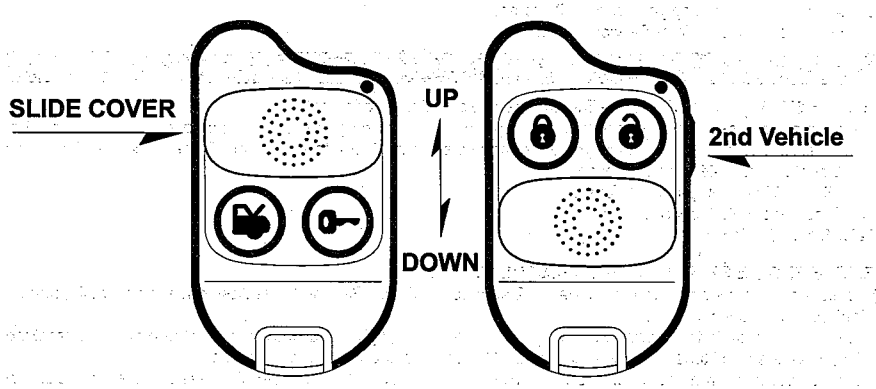
OPERATION CAUTIONS & WARNINGS

CRIMESTOPPER SECURITY PRODUCTS, INC. *and its* ***VENDORS*** *shall not be liable for any accident resulting from the use of this equipment. This system is designed to be professionally installed into a car or vehicle in which all items, such as parking brake and all associated components, door switches, transmission shift linkage, throttle linkage, and all engine safety features, are in perfect working condition.*

IT IS ABSOLUTELY THE OWNER'S SOLE RESPONSIBILITY TO: *A) Understand the operation of this system and its safety features. B) Check for proper operation of the system prior to accepting delivery of the vehicle from the installation facility. C) Check and maintain the condition of the vehicle and all items relative to the proper operation of this system and its safety features. D) Always leave the doors and windows closed and locked to protect against accidents and theft.*

DO NOT remote start the vehicle in a closed garage. *Make sure that the garage door is open or there is adequate ventilation. Failure to observe this rule could result in* ***injury or death*** *from poisonous Carbon Monoxide fumes.*

USING THE REMOTE TRANSMITTER



For RS-3G2
The transmitter supplied with this system has 3 buttons and a car 2 side button. The button configuration is Factory-set and unchangeable. See Page 13 for additional information on how to use your remote to operate a second vehicle equipped with an RS-3G2 series system.

For RS-4G2
The transmitter supplied with this system has 4 buttons and a car 2 side button. The button configuration is Factory-set and unchangeable. See Page 13 for additional information on how to use your remote to operate a second vehicle equipped with an RS-4G2 series system.

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PRE-INSTALLATION CONSIDERATIONS

BEFORE BEGINNING, check all vehicle manufacturer cautions and warnings regarding electrical service (AIR BAGS, ABS BRAKES, ENGINE / BODY COMPUTER AND BATTERY).

PLAN OUT YOUR INSTALLATION and determine most suitable locations for all components to be placed. These components include: the module itself, valet/program button, possible relays, and antenna/receiver (RS-1, RS-3 and RS-4 only, the RS-00 model does not include antenna or remotes.) Allow enough wire to create a service loop with strain relief, should servicing be required. This will also allow easier access and mounting.

DAMAGE to the CoolStart unit resulting from incorrect installation or failure to follow guidelines stated in this book will not be covered under warranty and will be subject to repair or replacement charges.

USE A VOLT OHM METER to test and locate all connections. Test Lights can damage a vehicle's computer systems.

ADDITIONAL PARTS, which are not included with this unit, may be needed for your particular vehicle. These items may include extra relays or Anti-Theft System Bypass modules.

INSTALLATION CAUTIONS & WARNINGS

DO NOT extend the Remote start ignition harness length. Mount the module so that main harness reaches all ignition switch wiring. Extending these wires could result in poor or improper performance.

DO NOT route any wiring that may become entangled with brake, gas pedals, steering column or any other moving parts in the vehicle.

DO NOT exceed the rated output current of any circuit on the Remote start module. Failure to observe this warning will result in damage to the unit not covered under warranty.

DO NOT remote start the vehicle in a closed garage! Make sure that the garage door is open or there is adequate ventilation. Failure to observe this rule could result in injury or death from poisonous Carbon Monoxide fumes.

WIRING Low Current 12 Pin Plug

YELLOW WHITE: (-) HORN CHIRP HONK OUTPUT

Connect to the LOW CURRENT Negative Horn Trigger wire usually located near the steering column. If the vehicle horn circuit requires 12V, then a relay is required. RELAY WIRING: Connect the Yellow/White wire to terminal #85, connect relay terminals #86 and #87 to 12V constant power. Connect terminal #30 to the 12V positive Horn activation wire.

BLACK: MAIN SYSTEM GROUND

Connect to chassis metal of the vehicle. An existing bolt or screw may provide an adequate ground, or drill a small hole, scrape away paint and attach using a sheet metal screw & star washer. This wire must be connected to a proper ground or undesirable and inconsistent operation will occur. Do not use Factory ground locations.

YELLOW BLACK: (-) IGNITION OUTPUT -or- GROUND OUT WHEN RUNNING

The Negative Ignition output / Ground Out when Running is used for a Anti-theft and Transponder Bypass modules. It can be used for a Anti grind / Starter Disable. As a Negative Ignition wire, this wire turns on when the remote start button is pressed and stays on through the duration of the remote start. When using this wire for an Anti grind/Starter disable, an optional Relay is needed to interrupt the Starter circuit. The starter disable circuit prevents accidental grinding of the starter if key is turned too far after a remote start. This required an optional Diode, see diagrams on NEXT PAGE.

STATUS LED

STATUS LED: Used for Remote Start Diagnostics – page 14 (Optional, requires Installation of LED)
LED will flash when locking your doors with remote.
LED will remain solid in Valet Service Mode.

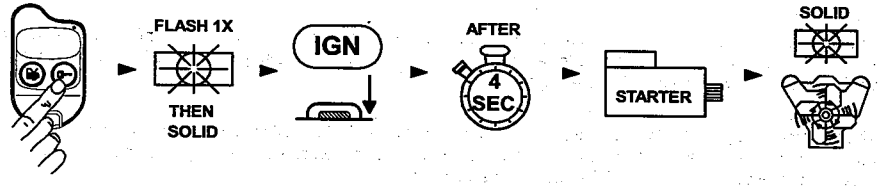
REMOTE ENGINE CONTROL

REMOTE START & TRUNK POP – Button Press Selection (Option # 6):
To eliminate the possibility of accidentally opening the trunk or starting the vehicle, there are (3) options for button press selection. This option will allow you to change whether the Remote starter and Trunk release activate by a:

1. Double button - ½ second presses.
2. *Single ½ second press (Default).
3. Press and Hold 2 seconds.

Default = 1 single press

REMOTE ENGINE STARTING - SUCCESSFUL START:
1) Press the remote start button for at least 1/2 second (*default). Parking lights flash once, return solid, and the Ignition/Acc circuits turn on.
2) After a few seconds the Starter Motor engages. The parking lights and Acc circuits will turn off while cranking.
3) Engine Starts and Runs. Parking Lights and ACC turns back on, and the doors lock.
4) Engine will remain running for programmed run time until reset with Brake pedal. If needed, the engine can be turned off with remote transmitter by pressing and releasing the Start button.



REMOTE ENGINE CONTROL

REMOTE ENGINE STARTING - UNSUCCESSFUL START
In the event that the engine does not start on the first attempt, the system shuts down for a few seconds, then attempts to restart the engine a 2nd and 3rd time. For hard starting engines, the unit will allow a starter crank time of up to 4 seconds maximum. This should provide ample cranking time for difficult starts, but is limited to 4 seconds to help prevent damage to the starter from over cranking.
1) If engine starts on 2nd or 3rd attempt, see steps 3 & 4 of "Successful Start" on page 4.
2) If Third attempt fails to start engine, the system will turn off and doors will remain locked. *NO FURTHER ATTEMPTS WILL BE MADE AUTOMATICALLY*

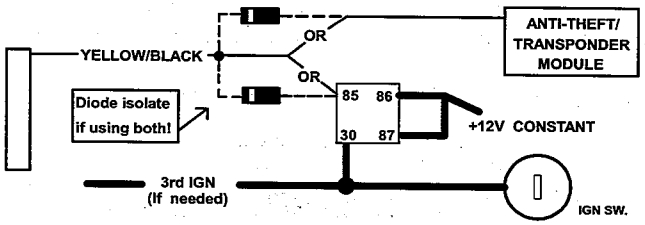
TURNING OFF A REMOTE STARTED ENGINE:
1) Engine is running in Remote Start (Parking lights ON).
2) Press and release the remote start button or double press (If option #6 is on).
3) Engine & parking lights OFF, Doors re-lock/re-arm.

ENTERING YOUR REMOTE STARTED VEHICLE:
1) With engine running, Unlock system with remote (If equipped) or open door with key.
2) Enter vehicle and be careful not to step on brake pedal! (Remote Start Reset)
3) Turn Ignition to ON/RUN position, then press brake pedal to reset the Remote Starter & Shift out of park.
4) Remote starter will reset instantly when the brake is pressed. Parking lights will turn off and the ignition key is now controlling your vehicle.

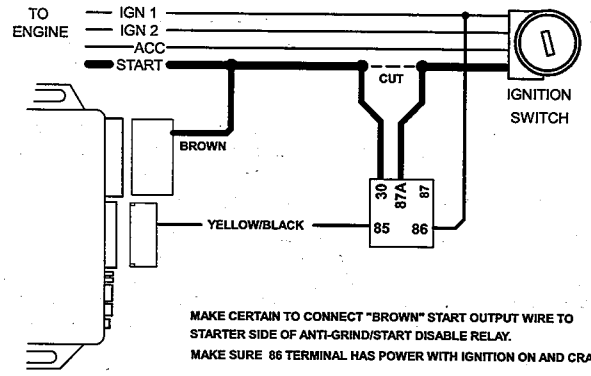
REMOTE START *RUN TIME RESET*:
The Remote Start Run Time is adjustable from 3 to 30 minute (option # 20). Some local cities have a run time limit for unattended vehicle. You can now reset the engine-run timer to allow for more running time after remote start has already occurred using the remote control. After a successful remote start, press both the Lock & Unlock buttons together for at least 2 seconds. The parking lights will flash 3 times and internal engine timer will reset back to zero minutes.

WIRING Low Current 12 Pin Plug

YELLOW BLACK FOR NEGATIVE IGNITION OUTPUT: (Relay and/or Module not included)



ANTI-GRIND RELAY: (Relay not included)



MAKE CERTAIN TO CONNECT "BROWN" START OUTPUT WIRE TO STARTER SIDE OF ANTI-GRIND/START DISABLE RELAY.
MAKE SURE 86 TERMINAL HAS POWER WITH IGNITION ON AND CRANK

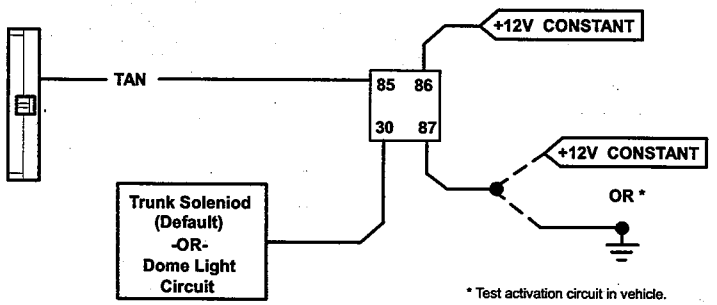
WIRING Low Current 12 Pin Plug

BROWN: (-) AUX OUTPUT (TRUNK POP) or DOME LIGHT ILLUMINATION OUTPUT
This output is programmable for 3 modes of operation. See Programming Option #9 Section.

1. 30 second Dome Light output.
2. Momentary ½ second output (Default).
3. Momentary Push and Hold. The output stays on until Transmitter button is released.

Note: Some vehicles like Lexus and Toyota require a 2 to 3 second output for the Trunk Pop to operate. This output is selectable for Momentary ½ second (default) or a Momentary Press and Hold function.

TRUNK OUTPUT or DOME LIGHT



* Test activation circuit in vehicle. Connect to+12V for Positive circuits or Ground for Negative circuits. Relay not included.

REMOTE ENGINE CONTROL

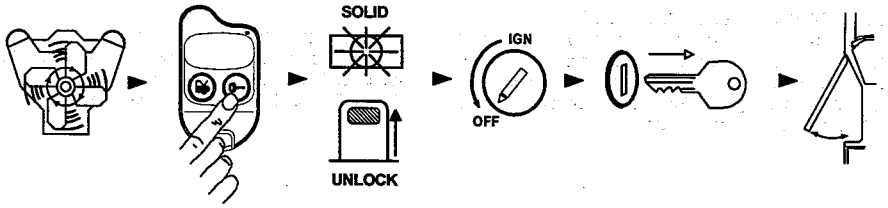
IDLE DOWN MODE:
This mode allows the unit to take over operation of the parked vehicle while the ignition key is removed and you exit the vehicle. The vehicle will remain running for the programmed time or until canceled. The Run Time choices are: 10, 20, 30 minutes or Infinity Run. ***Default = 20 minutes***

Examples:

- *You pull up to a convenience store for a quick stop, "Idle Down" mode keeps engine running when you exit the vehicle, (with keys in hand) remote lock doors or arm alarm. When you return, unlock, turn ignition ON and drive away.*

IDLE DOWN MODE - EXITING THE VEHICLE:

1) With vehicle engine running with key, press the Remote Start button for at least one second or twice if set for Double press.
2) Parking Lights will turn ON.
3) Doors will unlock, or if brake pedal is being depressed, doors will unlock when it is released.
4) Turn OFF Ignition and remove key. Engine should remain running.
5) Exit vehicle then remote lock doors if desired.
6) Engine will remain running for programmed run time or until you return (whichever comes first).



REMOTE ENGINE CONTROL

IDLE DOWN INFINITY RUN MODE
Idle Down can be programmed for INFINITY RUN. This allows the vehicle engine to remain running *INDEFINITELY*. This mode will allow the vehicle to be left running and unattended *without* the ignition key in the switch preventing the vehicle from being stolen. This mode can be beneficial to law enforcement or commercial trucks that need to remain running unattended for long periods of time.

SELECTABLE HOURLY COLD-START MODE (1-4 HOURS)
This mode allows the vehicle to be programmed to self-start every 1, 2, 3 or 4 hours and run for the programmed run time. This can be helpful during extremely cold conditions where engine fluid freeze-up is a concern.

THE VEHICLE MUST BE OUTDOORS OR IN A WELL VENTILATED AREA! Once this mode is set, the unit will start at the programmed hourly interval and run for the programmed run time. To reset this mode, either start the vehicle with the key or the remote control.

SELECTABLE HOURLY COLD-START MODE – EXITING THE VEHICLE:

1) Engine should be running with the Key. Press the Remote Start button for at least 1 second. Lights will turn on signaling the remote start has turned on and doors will unlock.
2) Within 10 seconds press and release the valet/program button once for each hourly increment (1 time = 1hour, 2X = 2 hours, 3X = every 3 hours, 4X = every 4 hours).
3) Parking Lights will turn ON when the button is pressed and flash once for each consecutive button press.
4) Turn Ignition switch OFF, remove key and exit the vehicle. Engine should remain running.
5) Once outside the vehicle, press and release the remote start button to turn off engine. The parking lights will flash the number of times indicating the hourly increment for confirmation. The vehicle will start by itself at the selected hourly increment until driven with key or started via the remote control.

LOCK with REMOTE START and After REMOTE START ABORT:
Option # 8 controls whether the system will automatically lock during and after a remote Start abort or time-out. There are 4 choices for this option:

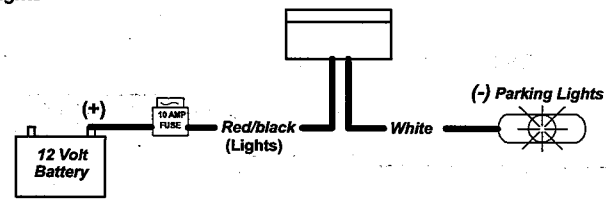
1. OFF
2. ***Lock with Remote Start Only - Default.***
3. Lock with Remote Start and Lock and with Remote Start Abort.
4. Lock with Remote Start Abort only.

WIRING Low Current 12 Pin Plug

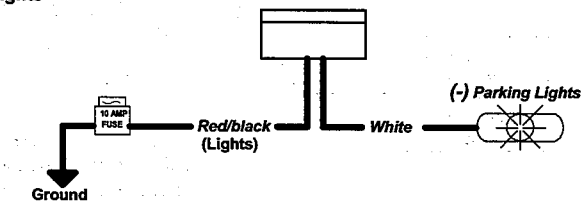
RED/BLACK: Input Source, 12 Volts or Ground
WHITE: PARKING LIGHT OUTPUT

The Parking Light circuit can be connected up as a high current positive or negative trigger. Connect to vehicle parking light circuit at the back of light switch or if this is not possible, connect directly to one of the parking lights at the front of the vehicle. If your vehicle has a multiplex lighting system, that will require a resistor connected in series with the white wire to the light switch. Use the Negative parking light circuit for Multiplex resistor lights.

Positive Parking Lights



Negative Parking Lights



WIRING Low Current 12 Pin Plug

GRAY: (-) NEGATIVE HOOD PIN SWITCH
Connect the Gray wire to a switch that is at ground when the hood is open. If an existing switch is not available, then we recommend one to be installed. When this wire is grounded, the remote start is inhibited. The unit will not attempt to start if hood is open. The hood can be opened after remote start without abort.

PINK: NEGATIVE GLOW PLUG
Connect Pink wire to indicator circuit that shows a (-) Signal while the WAIT TO START LAMP is on. When this wire is used, the system will wait until light turns off before attempting a remote start.

PURPLE: (12V) BRAKE RESET
Connect the Purple wire to the side of brake pedal switch that shows 12 volts ONLY when pedal is depressed. This is the wire that turns off the remote start once the driver's key is in the Ignition and turned to the ON position.

ORANGE BLACK: (-) OEM DISARM OUTPUT
This wire provides a Ground pulse to disarm the vehicles' Factory anti-theft system prior to a Remote Start. Connect this wire to the vehicles' anti-theft disarm wire. This wire is sometimes found coming off the Driver's door key switch or at the Factory Anti-theft control module. This wire may not be needed if Factory Security only requires a door unlock pulse.

ORANGE: (-) OEM REARM OUTPUT
This wire provides a ground pulse to rearm the vehicles' FACTORY anti-theft system after a timed-out or aborted remote start. Connect this wire to the vehicles' anti-theft rearm wire or to the door pin circuit depending on your requirements. This wire may be needed to pulse the door pin circuit on vehicles with retained accessory power.

RED WHITE: TACHOMETER INPUT
When installing the system in Tach mode, this wire must be connected to a valid source of AC voltage. This wire allows the unit to sense the engine running and control the starter motor.

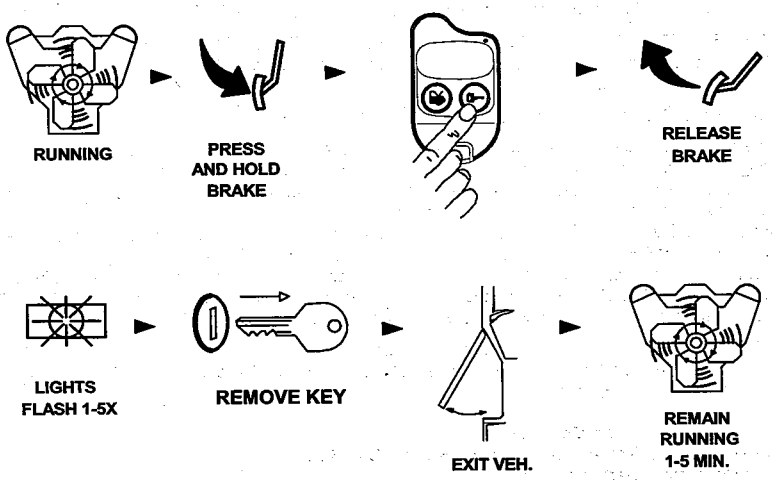
WIRING LED and Valet Switch

PROGRAM OVERRIDE SWITCH: 2 PIN PLUG (REQUIRED FOR PROGRAMMING & LEARNING REMOTES)
This switch is used for programming features, transmitters, valet mode, and to override the optional starter disable (if installed) in the event of a non-operating remote control.

TURBO TIMER MODE (Option 22)

The optional Turbo Timer mode allows the CoolStart system to keep a Turbo or Turbo Diesel vehicle running for 1, 3 or 5 minutes [selectively] after you remove the key and exit the vehicle. This is handy for turbo cool-down without the need for expensive turbo timers. The ***Default = OFF.***

To Activate Turbo Timer:
With the engine running by key, ***press Remote Start Button with brake pedal depressed.*** As you release the brake pedal, the Parking Lights and Status LED will blink the number of minutes for the Turbo Timer setting. The doors unlock after confirmation.



MANUAL TRANSMISSION MODE (Option 11)

MANUAL TRANSMISSION EXIT PROCEDURE (Option #11-1 and 11-3)

This system features a Manual Transmission Mode. When exiting the vehicle, there is safety check out procedure required for the manual transmission mode to work. There are 2 choices of operation,

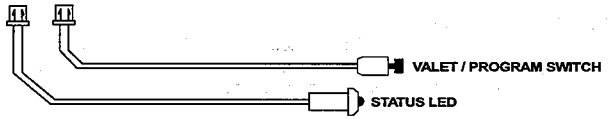
1. ***Option 11-1:*** With engine running and vehicle in neutral, set parking brake, then press "KEY" Icon on transmitter. The remote starter will turn on and take over operation of the vehicle.
2. ***Option 11-3:*** With engine running and vehicle in neutral, set parking brake. The remote starter will turn on and take over operation of the vehicle.
3. Remove key, exit vehicle (remote starter unit must "SEE" door opened, then closed with engine running).
4. Press Lock button within 10 seconds of closing door for "Idle Down" (engine stays running). Press Lock a 2nd time to cancel "Idle Down" (engine turns off) and set up Manual Transmission Mode.
5. Press Lock button after 10 seconds to Lock the doors and shut down the engine. From this point, the system will remote start the engine unless a door is opened.
6. Press the Remote Start Button after closing door to set up Manual Transmission Mode without Locking or Arming OEM Alarm System.

TURBO TIMER in Manual Transmission Mode:
For Turbo Timer, press brake pedal before setting parking brake, then press the Remote Start Icon (requires Turbo Timer Option # 22). After exiting vehicle, press lock button to set Manual Transmission Mode. The engine will remain running for the Turbo Time setting (1, 3 or 5 minutes).

CONVENIENCE AND SAFETY FEATURES

KEYLESS ENTRY (Power Door Locks, may require Data Module - Optional)
This system enables you to remotely lock and unlock the vehicle's doors (if equipped with power locks) via remote control for safety and convenience. Note: This feature may require extra labor and/or parts to install. Press the Lock or Unlock transmitter button as you leave or come near the vehicle. Parking lights will flash once for Lock and twice for Unlock. The parking lights will turn on for 30 seconds with Unlock to assist in locating and providing illumination near your vehicle when approaching at night for safety. The parking light also turns off with ignition on. If vehicle is running by the remote start system, the lights will flash, but return back to solid.

LED: 2 PIN PLUG
The LED is used as a VALET/PROGRAMMING indicator and it will also FLASH for use as security deterrent.

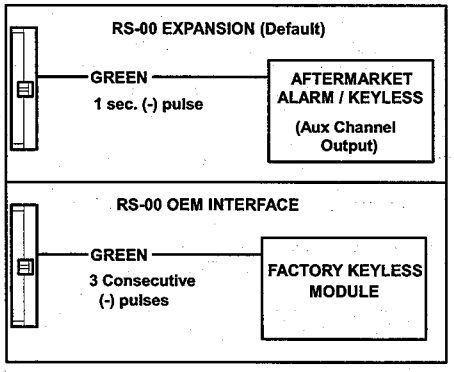


WIRING Low Current 3 Pin Plug

GREEN (-) START ACTIVATION INPUT or OEM INTERFACE (3 Pulse Start)
Option # 17 See descriptions & diagrams below.

Option 17-2 Default (-) Neg. Start Activation:
This wire allows a host (or parent) alarm's or keyless entry system to activate a Remote Start by sending a 1-Second Negative signal to the Green input wire to trigger a remote engine start or stop. Connect the Green wire to the host system's Auxiliary channel output wire.

Option 17-1 Alternate OEM Interface:
This mode allows the system to Remote Start or Stop when 3 successive Negative pulses are sent to the Green input wire. Connect the Green input wire to the Negative lock signal wire of the factory system. If your Factory OEM system does not have this type of signal, then a relay is required.



ORANGE/WHITE (-) ACCESSARY OUTPUT
Connect to relay for vehicles that require a 2nd Accessory circuit.

BLUE/ORANGE (-) STARTER OUTPUT
Some vehicle require a (-) Start Activation for "Push to Start".

POWER DOOR LOCK WIRING CONNECTOR

BLUE: (-) Negative pulse for UNLOCK
RED: 12V When using external relays (TERM 86)
GREEN: (-) Negative pulse for LOCK

DETERMINING DOOR LOCK TYPE: We recommend determining the type of locking system the vehicle has before connecting any wires. Incorrect connection may result in damage to the alarm and/or vehicle locking system. Door lock information is provided as a guide. Your vehicle may differ.

Crimestopper Door Lock Accessories:
CS-6600DLM: Dual-relay plug-in module for Reverse Polarity, Positive, or Aftermarket Motors.
CS-6500DLI: Plug-in pulse inverter that converts the Negative outputs of the system to Positive type for Positive Door Lock systems.
CS-610S1: Aftermarket door lock actuator (motor).

Negative Trigger (-): Many Imports; Late model Ford & General Motors
Negative trigger door lock systems send a Negative (Ground) pulse to existing factory relays to lock and unlock the vehicle doors.

Positive Trigger (+): Many General Motors; Chrysler / Dodge / Plymouth
Positive trigger door lock systems send a Positive (12V) pulse to existing factory relays to lock and unlock the vehicle doors.

Reverse Polarity: Many Ford/Lincoln/Mercury/Dodge/Chrysler/Plymouth and early 90's GM Trucks
Reverse Polarity systems use no relays, but instead the door lock/unlock motors are controlled directly from the lock and unlock switches in the door. The lock and unlock wires rest at Negative Ground when not in use. When the lock or unlock button is pressed, one of the circuits is "Lifted" and replaced with +12V causing a lock or unlock to occur.

Single Wire (Dual Voltage): Late model Chrysler/Dodge/Plymouth Vehicles, some 2000-UP GM
Dual Voltage systems have lock/unlock switches that send varying levels of Positive voltage OR Negative ground current to the SAME wire for both lock and unlock. When the vehicle's Body Computer Module (BCM) or door lock module senses different voltages on this wire, the system will either lock or unlock. Single wire door lock systems require relays and resistors.

Databus Systems 2003-UP GM Trucks & SUV's, '96-04 Jeep Grand Cherokee
Databus systems send low current "Data messages" to the door lock controllers on a network in order to lock and unlock the vehicle. To install aftermarket systems in these vehicles, an interface module is required that converts the regular lock/unlock pulses into "Data messages" to allow locking & unlocking. Interface modules are sold separately.

CONVENIENCE AND SAFETY FEATURES

AUTO LOCK / UNLOCK (Option # 2)
The Auto Lock feature controls whether the doors will automatically lock/unlock on your vehicle when driving or with turning the Ignition ON/OFF. If the Auto Lock feature is turned on, and your system is in "Tach" mode, then the doors should automatically lock as the engine RPM's increase (driving). If the Auto Lock feature is turned on, and your system is in "Smart Tachless" mode, then the doors will lock a few seconds after the Ignition is turned on. When the Auto Lock feature is turned on, the system will always unlock the doors when the Ignition is turned off. With this feature turned OFF, the system will not automatically lock or unlock the vehicle. See your installer for programming information on this feature.

REMOTE PANIC (Optional)
For personal safety this unit now includes a panic feature. To sound the vehicle car horn, press the Lock Button on the remote for more than 2 seconds. The vehicle horn will honk along with flashing parking lamps for 1 minute. Reset Remote Panic by pressing either the lock or unlock button. See next section for Horn Honk information.

HORN CHIRPS (Option # 7, 13 & 16)
If vehicle horns are connected to the system, they will provide audible confirmation chirps for lock and unlock and remote start. The chirp sound can be programmed from short to long to adjust for different sounding horns. Pressing the Lock or Unlock button (Programmable option for 1 or 2 Press) will provide a horn chirp for audible confirmation. The system can also be programmed to provide 3 chirps when a remote start is requested using the remote. Note: Horn honk/chirp feature may require extra labor and/or parts to install.

Option 7 = Chirps with Remote Start On/Off.
Option 13 = 1 or 2 button press for Chirp with Lock / Unlock.
Option 16 = Short, medium or long Chirp Pulse (15, 20 or 40 milliseconds).

REMOTE TRUNK RELEASE OR DOMELIGHT ILLUMINATION (Option 9)
This CoolStart system includes an output that can be programmed to remotely release a factory electronic trunk or illuminate the interior light when you unlock your vehicle for lighted entry at night. If you have the optional trunk pop installed, simply press and release the Trunk Button #3 on the transmitter to remotely open trunk. If your system is programmed for Dome Light illumination, then it will work automatically lighting the dome light for 30 seconds when you unlock your vehicle via the remote. The dome light will turn off after 30 seconds, or turning the key on (whichever comes first). The trunk Pop or Dome Light Illumination may require extra labor and/or parts to install.

CONVENIENCE AND SAFETY FEATURES

VALET MODE (Requires Installation of Valet Switch)
Before servicing your vehicle or handing the keys over to a Valet we recommend putting the unit into Valet Mode. The remote start function WILL NOT operate when in Valet Mode. To enter Valet mode, turn the key to the ON position, press and hold Program/Valet switch for 5-6 seconds. The LED will turn on solid when the system is in Valet Mode. To exit Valet Mode, perform this procedure again. The keyless entry will still function normally while in Valet Mode.

ANTI-GRIND (Optional, relay not included)
This Optional feature prevents the user from accidentally grinding the starter if the Ignition key is turned too far to the start position while engine is already running from the remote starter. The Anti-Grind requires the use of an external relay.

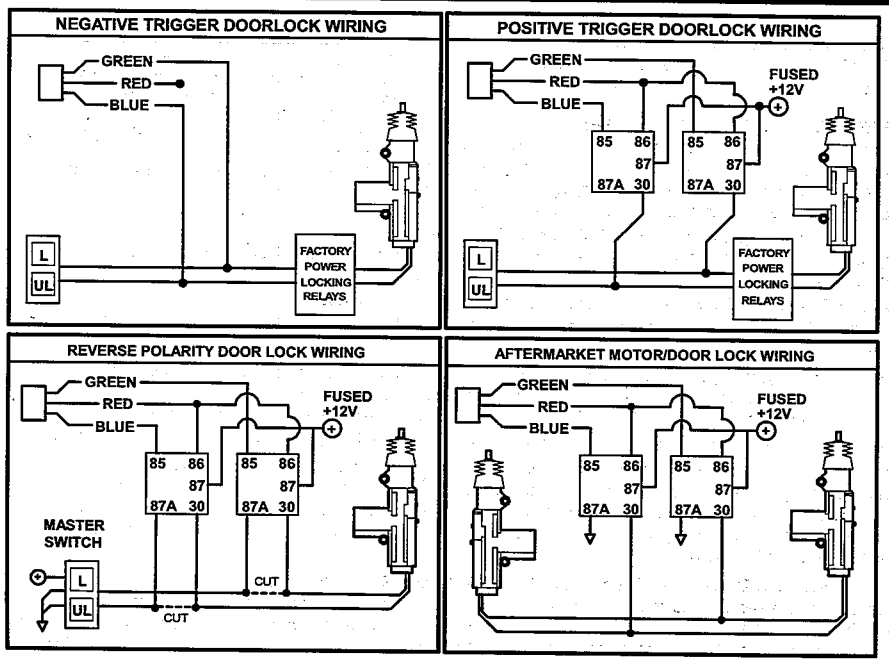
HOOD OPEN SAFETY (Requires hood pin switch)
Prevents the engine from being Remote Started when hood is open. Eliminates risk of injury to someone working under the hood of the vehicle with a properly working hood pin installed. The hood can be opened after a successful Remote Start, but not before. If Remote Start button is pressed with the hood open, the lights will flash once and the unit will not attempt a start.

BRAKE PEDAL RESET
Prevents starting or turns off a remote started vehicle when this circuit is active. Prevents Unauthorized Driving of Vehicle. This circuit shuts the system down immediately when brake pedal is pressed. Turn the ignition key to the "ON" position before the brake pedal is pressed.

OEM ALARM INTERFACE (May require optional Databus Module)
This feature is designed to Disarm and Re-arm Factory equipped security systems in conjunction with remote start and keyless entry (if needed for your vehicle). This feature will maintain the original integrity and security of your vehicle's factory equipped systems before, during, or after remote start. Some vehicles require an optional Databus module to operate a factory alarm or keyless entry.

NOTE: ***When changing, charging, or jumpstarting the vehicle's battery we recommend removing the main power fuses located on the heavy gauge RED wires near the remote start module.***

BASIC DOOR LOCK DIAGRAMS



"SMART TACHLESS" MODE

Your CoolStart system includes a unique voltage monitor called "Smart Tachless" mode. This mode allows this unit to efficiently start an engine without the use of a tach signal wire. These modules actively monitor the voltage level of the vehicle to control the starter motor each time a remote start is requested.

IMPORTANT NOTES:
(1) On the rare occasion that "Smart Tachless" mode does not operate satisfactorily, change the voltage reference level as described below, or use a different mode such as "Tach" mode, or "Timed Crank" mode.

"SMART TACHLESS" ADJUSTMENT:
In the event "Smart Tachless" over-cranks or under-cranks your starter, the settings can be changed. The purpose of adjusting the "Smart Tachless" Mode is to raise or lower the voltage reference threshold from the 93% default point. Raising or lowering this 93% point should increase or decrease your cranking time respectively. The adjustment range is from 79% to 100% in one percent increments. Follow steps below to adjust the reference level.

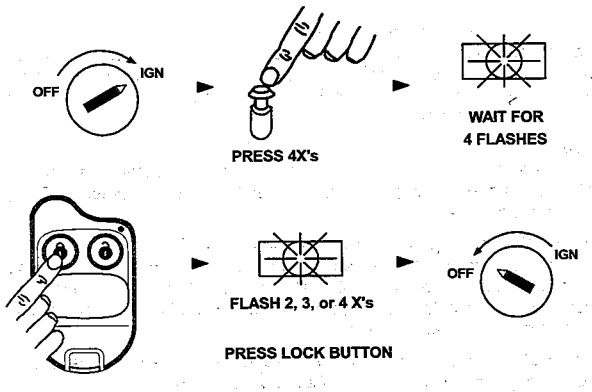
1. Open hood (or ground Gray hood pin wire if no hood pin is installed)
2. Turn the key to the ON position (Pink wire must be connected!)
3. Press program button 5 times, after a few seconds the unit will flash the lights and/or honk horn 5 times.
4. Carefully press the program button 21 times to get to option level 21. You must get a light flash and/or horn honk after each press. If the lights didn't flash and/or horn does not honk, then the unit did not register your button press. Only count the light flash and/or horn honk.
5. Press the Lock Button #1 on the remote to decrease by 1% (lights will flash and/or horn honk 1X for each press); Press the Unlock Button #2 to increase by 1% (lights will flash and/or honk horn 2X for each press); Press the Trunk Button #3 to reset to 93% (lights will flash 3X). The unit will stop providing light flashes when you reach the bottom (79%) or the top (100%) of the adjustment range. If you lost track, then just press Button #3 to reset back to 93% and begin raising or lower again.
6. Turn Ignition OFF, Close hood (or un-ground the Gray hood pin wire) and check operation.

NOTE: This Smart Tachless adjustment feature is not available on the RS-00 Model that has no remote transmitters or antenna. If you must use this feature on a RS-00, then a remote and an antenna module from an RS-3 or RS-4 must be used to set the desired level. Once programmed, remove antenna.

TRANSMITTER PROGRAMMING

Note: All transmitter codes must be learned at time of programming!! The RS-4G2 learns up to 4 different transmitter codes.

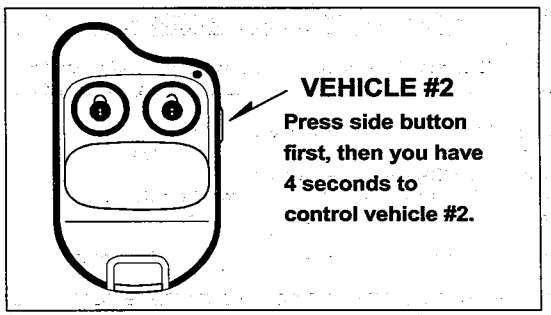
1. Turn Ignition Key to the ON position.
2. Press Programming button 4 times, then after a few seconds the unit flashes the parking lights 4 times.
3. Press button #1 of the transmitter to be coded. You should get 2 light flashes indicating the unit is waiting for a 2nd code, then press button #1 of a second transmitter, the unit will flash 3 times indicating its waiting for the 3rd code and so on. If all 4 codes are learned, the unit will automatically exit code learning mode, otherwise turn key off. See diagram below.



2-VEHICLE OPERATION & PROGRAMMING

A single Remote Control can control two different vehicles.

SETUP:
Follow the "Transmitter Programming" steps on the second vehicle below. Program Car #2's existing remotes, then quickly press the Car #2 side button on your remote before pressing the lock button on your remote to program it to Car #2. Once your remote is programmed to the second vehicle, press the car #2 side button on your remote first, and within 4 seconds press any of the 4 function buttons on your remote. You can keep pressing function buttons to control car #2 as long as it is within the 4-second window. After 3 seconds have elapsed, the remote will revert back to Car #1 control.



TACH FINDER & USEFUL TIPS

TACH FINDER MODE:

This Tach Finder mode can assist in locating a Tach source for your installation. When following the steps, the unit will begin to flash the parking lights if you have the Red/White wire connected to a tach source. If lights do not flash, then try another wire until you locate a tach signal that will cause the Parking lights to flash. NOTE: On some vehicles equipped with daytime running lights, it may be difficult to see any flashing parking lights. In this case your only notification will be the slight "ticking" sound coming from the module's flashing light relay.

TACH FINDER STEPS:

1. Open hood (or ground Gray hood pin wire if no hood pin is installed)
2. Start Engine with the key.
3. Press the Program button for 2 seconds
4. Lights will begin flashing if the Red/White wire is connected to a valid tach source. If not try a different tach wire.
5. Once Tach is located then turn off engine and close hood to abort (Remove Gray hood pin wire from ground).
6. Now follow the Tach Programming steps.

TACH FINDER TIP: Cold Weather / High Idle Simulation:

The tach finder mode can also be used to help determine how your CoolStart system may operate in a cold weather situation. Once you have a valid tach source programmed into your system, follow test steps below.

1. Go into the tach finder mode.
2. You should have a consistent light flash (like directional or emergency flashers).
3. Slowly raise the RPM level on your vehicle to simulate a "warm-up idle" that is higher than the normal idle level. If and when the lights STOP flashing. Means that this is the point at which the tach signal is out of range of the system.
4. We recommend that you bring the RPM level up to around 1000 RPM's to simulate a cold morning idle.
5. If the lights stop flashing, then we recommend using another tach source. This may help prevent the engine from starting and stalling in the morning or cold weather.
6. If lights flash with engine off, you're connected to a vehicle data wire.

TACH PROGRAMMING & TACH SIGNALS

INTRODUCTION
This system has 3 methods of monitoring the engine running. Option #1 controls how the system monitors the engine running.

1. ***Tach Reference Mode – Monitors Engine R.P.M.*** - Most reliable method, see Tach programming below.
2. ***Tachless Mode - Default.*** When vehicle is remote started, the battery voltage rate will go up because the Alternator starts working. The Tachless Mode is adjustable in 1% increments thru Option 21.
3. Not Used.
4. **Hybrid Mode –** For electric motors that are computer controlled. This provides a 2 second crank output to activate the start sequence on Hybrid vehicle. Don't use on vehicles with gas or diesel engine, doesn't monitor stalled engine or low battery voltage.

Tach Reference Mode: Provides reliable remote starting performance though engine speed sensing. When using Tach Reference Mode, the WHITE/RED wire is used for Tach signal [Engine RPM] input. Most modern engines include various points where the Engine Speed [Tach] or A/C signal may be obtained. Tach Signal examples: Fuel Injection Solenoids, Negative (-) side of ignition coil, at the Distributor or Ignition Control Module, Coil Pack, Engine Computer, or Crankshaft Sensor. Sometimes an Alternator Stator pin can be used. These Tach Signal locations mentioned are provided as a guide, your vehicle may differ. Some locations will NOT be a good location for Tach source due to RF noise or Computer Data.

Note: When using a Databus module for Tach signal, don't connect up the Tach wire. This will create a conflict. The System can only use one Tach source.

TACH PROGRAMMING:

1. Red White wire should be connected to a valid Tach source.
2. Start engine with key.
3. Press program button 5 times, then wait for 5 light flashes and/or 5 horn honks.
4. Push program button once.more. (You must get one light flash and/or honk after button is pressed.) This unit is now at option #1-Tach Learning.
5. Press the #1 Lock Button on remote transmitter. The unit will read the Tach source and flash the lights and or honk once for program confirmation. (On models without remote transmitters, press the brake pedal in this step.)
6. If lights do not flash for confirmation, then try another tach source or try the tach finder to locate another wire

NO FACTORY KEYLESS ENTRY AFTER REMOTE START

Most new cars Do Not allow the factory Remote Keyless Entry to function with the Ignition ON. This means you can't use the factory remote to lock or unlock the doors. After remote start you have to use the keys to unlock the door. Also, many new vehicles unlock the doors when disarming the factory alarm. This leaves the doors unlocked while Remote Started. To resolve this problem, have your installer connect the door locks to the Remote Start Keyless Entry. The Remote Starter with Re-Lock the doors after remote starting.

Model RS-3G2 and RS-4G2
When you return to a remote started vehicle, just press the Unlock button on the remote control.

Note: There are 3 Remote Start Options (see page 4). The options are: 1/2 second press (Default), 2 second press or Double button press.

REMOTE START DIAGNOSTICS

If the system flashes the LED and Parking Lights one to seven times and doesn't attempt remote. The LED will continue to flashing the error code until the ignition is turned on, it means the following:

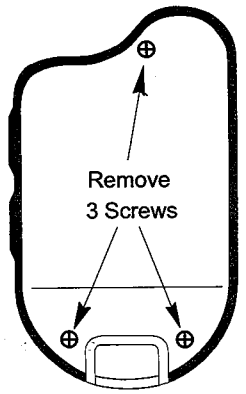
1 Parking Light Flash (1 LED Flash) = Problem with Brake Switch.
2 Parking Light Flashes (2 LED Flashes) = Problem with Hood Switch.
3 Parking Light Flashes (Solid LED) = Valet Service Mode.
5 Parking Light Flashes (5 LED Flashes) = Ignition On before Remote Start.
7 Parking Light Flashes (7 LED Flashes) = Manual Transmission Error.

Be sure to tell your installer the Diagnostic code when taking vehicle in for service

SYSTEM IS UNSUCCESSFUL AT REMOTE START DURING EXTREME COLD CONDITIONS:
Please be aware that during sub-freezing conditions your remote starter may take more that one attempt to start, or it may not successfully start the vehicle after 3 attempts. During these conditions the vehicle may not properly start even using the key, therefore trying to start by the remote would also be unsuccessful.

BATTERY REPLACEMENT

To replace the battery: Simply remove the 3 screws on back of the transmitter and open the case. Remove the battery and replace. The replacement battery is GP23A.



DIESEL GLOW PLUG DELAY

This feature provides a solution for diesel vehicles without having to connect to the Glow Plug-Wait to Start Circuit. This may be needed for various reasons. If your vehicle does not have a viable Wait to Start Circuit, or you cannot locate and identify the circuit, then change your system to Diesel Glow Plug Delay mode. You can choose from a selection of pre-cranking delay times. Once this mode is activated, the system will NO LONGER monitor the PINK glow plug input wire and will use a delay setting chosen by the installer in the option chart.

NOTES: This feature is OFF by default and must be programmed before use. Once this feature is turned ON, the Pink Glow plug input wire is not used. The Remote start unit will always wait the programmed time before cranking EVEN IF the glow plug warms up first. There are 3 different Delay times available for use: 10, 15, or 20 seconds. SEE OPTION PROGRAMMING CHART on Pages 15-16.

HOW TO USE THIS FEATURE:
1. See the Option Programming section on Pages 15-16 and change Option #19 from Monitor Glow Plug Light to one of the delayed time values. (Default setting is to always monitor the PINK Glow Plug input wire.)
2. Once this option has changed, the system will wait for the selected time before cranking.

OPTION PROGRAMMING

This CoolStart unit has over 24 programmable control options to customize the system for various operating features and installer preferences. Examine the chart on the pages 15-16 along with reading the descriptions that follow on pages 17-20. You may change one option at a time, or program multiple options in one session. If you start with the lowest option and continue on to higher options, you do not need to repeat steps #1-3 each time. For example, you can change Option #2 to "ON", then you can continue pressing the program button to get to a higher number option and change it as well. You can only go from low to higher options numbers in one session.

OPTION PROGRAMMING CHART BEGINS ON NEXT PAGE

OPTION PROGRAMMING

To Engage Option Programming:

1. Turn Ignition Key to the ON position. Do not start vehicle.
2. Press the Program / Valet button 5 times. Wait for the unit to flash the lights and/or horn honk 5 times.
3. Push the valet program button the number of times that corresponds to the option number desired (1-24X). You must get a light flash and/or honk after each button press. If the system did not flash the lights and/or honk, then it did not register your press. Press carefully and do not lose count.
4. ***For RS-1, RS-3, RS-4:*** When you reach the desired option #, Press button #1 Lock or #2 Unlock to change the option. (Some option numbers use ALL 4 remote buttons to select settings)
5. ***For RS-00, RS-1:*** (No Lock button) Tap the brake pedal to toggle through the option values: Tap brake once (lights flash 1X) Tap the brake pedal again (Lights flash 2X) tap 3 or 4 times for options that have 3 or 4 values.
6. When finished, turn Ignition OFF, and check for changed features.

OPTION PROGRAMMING TABLE

Option #	Option Description	TX Button #1	*TX Button #2 Default Value*	TX Button #3	TX Button #4
1	Engine Monitoring	Tach	*Tachless*		Hybrid
2	Autolock with RPM / Ignition	ON	*OFF*		
3	Door Lock Pulse	3 Seconds	*0.50 Seconds*	Double Unlock	"Wake Up" pulse with Unlock
4	Pink/white Wire Selection	ACC	*IGN*	START	
5	Data Port Protocol OFA or SL Series	OFA Series	*SL Series*		
6	Remote Start & Trunk Release Button Selection	Double Button Press	*½ Second Press*	Press and Hold	
7	Horn Chirps on Remote Start	ON	*OFF*		

2-Way DATA PORT

Some vehicles require a Databus Module to Bypass the factory Immobilizer and operate the keyless entry

Databus modules are used to communicate with the vehicles computer at the OBD2 Data connector or Canbus wires. This reduces installation error. Crimestopper Systems with DP Series have a direct Data Port Plug-In for the Databus bypass module. This eliminates conventional wiring between the Alarm/Remote Starter and the bypass interface module.

Features Include

- Transponder Immobilizer.
- PassLock Immobilizer.
- O.E.M. Alarm Control.
- R.A.P. Shutdown.
- Power Door Locks.
- Priority Unlock.
- Trunk Release.
- Parking Lights.
- Courtesy Lights.
- Tachometer.
- Heated Seats.
- Rear Defrost.
- Driver 1 and 2 Memory presets.

The actual features controlled depend on the vehicle and Databus module.

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OPTION PROGRAMMING TABLE

Option #	Option Description	TX Button #1	*TX Button #2 Default Value*	TX Button #3	TX Button #4
8	Lock with Remote Start / Abort	OFF	*Lock after Remote Start*	Lock after Remote Start / Arm OEM Alarm with Abort	Lock / Arm OEM Alarm with Abort
9	Brown wire function	Dome Light	*Trunk pop*	Press and Hold	
10	Unlock before Remote Start (to Disarm OEM Alarm)	ON	*OFF*		
11	Transmission Type	Manual Transmission with Remote Control	*OFF*	Manual Transmission set with Hand Brake	
12	Idle Down Timer	10 Minutes	*20 Minutes*	30 Minutes	Infinity Run
13	Horn Chirp Confirmation	1 Press	*2 Press*		
14	Unlock with Trunk Pop	Unlock/Trunk Pop	*Trunk Pop only*		
15	30 Sec. Park Lights with Unlock	OFF	*ON*		
16	Horn Pulse (Chirp)	15 milliseconds	*20 milliseconds*	40 milliseconds	
17	OEM Interface Green input wire	3 pulse	*1 Pulse*		
18	Starter Cranking Time	1.2 Sec.	*.75 Sec.*	1.6 Sec.	3.6 Sec.
19	Diesel Glow Plug Delay	10 Seconds	*Monitor Glow Plug*	15 Seconds	20 Seconds
20	Remote Start Engine Run Time	10 Minutes	*20 Minutes*	30 Minutes	3 Minutes
21	Smart Tachless Voltage Adjustment 79-100%	-1%	+1%	Set to 93% default	
22	Turbo Timer Mode	1 Minute	*OFF*	3 Minutes	5 Minutes
23	RS-1 or RS-4 Selection	RS-1 / Start Button 2 Sec. press = Unlock	*RS-3 / RS-4*		
24	Reset Options to Default		*Reset All Options*		

OPTION DESCRIPTIONS

1. Engine Monitoring:
This option controls how the system monitors the engine running. You can program for Tachless mode that monitors battery voltage, Tach mode in which the unit uses a Tach signal (RPM) or for Timed Crank as an alternative. There are 4 choices for this option:

1. Engine R.P.M. (Tach) - Most reliable method. Tach must be programmed for this option to work.
2. ***Tachless Mode - Default.*** When vehicle is remote started, the battery voltage rate will go up because the Alternator starts working. The Tachless Mode is adjustable in 1% increments thru Option 21.
3. Blank – No Function
4. Hybrid Mode – For electric motors that are computer controlled. This provides a 3.6 second crank output to activate the start sequence on Hybrid vehicle. Don't use on vehicles with gas or diesel engine, doesn't monitor engine running or low battery voltage. Option #18 allows you to shorten starter crank time if necessary.

2. Auto Lock / Unlock:
This feature controls whether the doors will automatically lock when the ignition is turned on and unlock when the ignition is turned off. If the system is in Tach mode, then the doors will lock as the engine RPM's increase (driving). Some vehicles already have this feature from the factory you should turn off this option. *Doors will not lock if they are open to prevent locking the keys in.* There are 4 choices:

1. OFF = No Lock or Unlock with ignition.
2. ***Ignition ON = Lock, Ignition OFF = Unlock - Default.***

3. DOOR LOCKS:
This option sets how the door lock circuit works. There are 4 choices:

1. 3 Second Lock and Unlock - For older European vehicles that require a long lock and unlock pulse to operate Vacuum door lock systems.
2. ***0.8 Second Lock and Unlock - Default.***
3. Double Unlock – This feature may be required to interface with a factory alarm or keyless entry system. The first pulse disarms the factory alarm; the 2nd pulse unlocks the doors.
4. "Wake Up" pulse on Unlock - 0.8 second unlock with Ignition pulse to wake up a BCM. This is also called "SLAM LOCK" This feature may be required to interface with a factory alarm or keyless entry system.

OPTION DESCRIPTIONS

4. PINK / WHITE WIRE SELECTION:
This option controls the Pink / White wire function.
1. Pink / White = Accessory 2
2. ***Pink / White = Ignition 2 - Default.***
3. Pink / White = Start 2

5. Data Port Protocol:
This option controls the Data Port Protocol for OFA Series modules or SL Series modules. The default is set for SL Series Protocol. This option has no effect on conventional wiring of Bypass modules. Both OFA series and SL series are now 2-Way Protocol. ***Default = SL Series***

6. Remote Start & Auxiliary Output – Button Press Selection:
To eliminate the possibility of accidentally opening the trunk or starting the vehicle, there are (3) options for button press selection. This option will allow you to change whether the Remote starter and Trunk release activate by a:
1. Double button - ½ second presses.
2. ***Single ½ second press - Default.***
3. Press and Hold 2 seconds.

7. Horn Chirps on Remote Start:
This option allows the unit to provide 3 short chirps for audible confirmation of a remote start. The horn output wire must be connected for this feature. ***Default = OFF.***

8. Lock During After Remote Start:
This option controls whether the unit will automatically lock during and after a remote Start abort or time-out. There are 4 choices for this option:
1. OFF
2. ***Lock with Remote Start Only - Default.***
3. Lock with Remote Start and Lock / Arm with Remote Start Abort - Default.
4. Lock / Arm with Remote Start Abort only

9. Brown Wire Function: AUX 1 - Trunk Pop or Dome Light Output:
This option controls how the Brown output wire of the unit functions, either for Trunk pop or for Dome light illumination.
Default = Trunk Pop

OPTION DESCRIPTIONS

10. Unlock Before Remote Start:
This option is used to disarm an OEM Alarm System before Remote Start. ***Default = OFF***

11. TRANSMISSION TYPE: Requires Tach Wire connected and programmed
This option selects automatic or manual transmission mode
1. Manual Shift Transmission - Requires Remote Start Button pressed with (-) Hand Brake Activated.
2. ***Automatic Transmission – Default.***
3. Manual Shift Transmission – Starts Exit procedure with (-) Hand Brake Set and engine running.

12. Idle Down Run Time:
This feature allows the remote starter to take over operation of a parked vehicle when the ignition key is removed and you exit the vehicle. The vehicle will remain running for the programmed time or until canceled. The choices are: 10, 20, 30 minutes or Infinity Run. ***Default = 20 minutes.***

13. Horn Chirp with Lock and Unlock - 1 or 2 Button Press
This option allows the system to chirp the vehicle horn for Lock/Unlock confirmation on 1 button press or a 2nd press within 3 seconds. The horn output must be connected to use this feature. ***Default = 2 Press.***

14. Unlock With Trunk Pop or Trunk Pop Only:
This option controls whether the system will provide an Unlock / Disarm pulse when the Trunk release is activated from the remote control. This may be required to prevent unnecessary triggering of a factory alarm on some vehicles. ***Default = OFF.***

15. Park Lights ON 30 Seconds with Unlock:
Keeps parking lights on with remote unlock to assist in locating and providing illumination near your vehicle when approaching at night for safety. The parking light also turns off with ignition on. ***Default = ON.***

16. Horn Pulse Chip:
This option allows adjustment the "CHIRP" pulse duration of the car horns.
1. 15 milliseconds.
2. 20 milliseconds - ***Default.***
3. 40 milliseconds.

OPTION DESCRIPTIONS

17 OEM Interface (RS-00 Add on Model): ***Default = 1 Pulse.***
Green Wire (-) Start Trigger Selection. When using an Aftermarket Host Alarm or Keyless Entry System: Leave the setting as "1 pulse" and connect the Green wire to the (-) Auxiliary output wire of the Alarm or Keyless Entry System. For Factory Keyless entry systems (without a (-) Negative auxiliary output), change the option to "3 Pulse". Pressing the Factory remote lock button 3 times will produce 3 short negative signals to trigger a remote start.

18. Starter Cranking Time:
This option controls the starter crank time. Choices are 1.2, 0.8, 1.6 or 3.6 seconds. ***Default = 0.8 seconds.***

19. Diesel Glow Plug Delay:
This option controls the system's Diesel vehicle interface. Using this option you can control whether the unit monitors the vehicle's glow plug circuit using the Pink input wire (Default), or you may select a specific delay time before cranking. Selections: 10, 15 or 20 seconds. ***Default = Monitor Pink Wire.***

20. Remote Start Run Time:
This option controls the engine run time for remote start. Use the buttons on the remote control to set a choice of 10, 20, 30, or 3 minutes. ***Default = 20 minutes.***

21. Smart Tachless Voltage Adjustment:
This option controls the voltage reference point when using smart Tachless mode. Pressing the Lock or Unlock buttons on the remote raises or lowers the reference level in 1% increments from 79%-100%. Button #3 resets the unit to the factory default reference point of 93%. The default 93% setting works for most vehicles.

22. TURBO TIMER: Using Remote Start Button
The optional Turbo Timer mode allows the CoolStart system to keep a Turbo or Turbo Diesel vehicle running for 1, 3 or 5 minutes [selectively] after you remove the key and exit the vehicle. This is handy for turbo cool-down without the need for expensive turbo timers. The ***Default = OFF.***

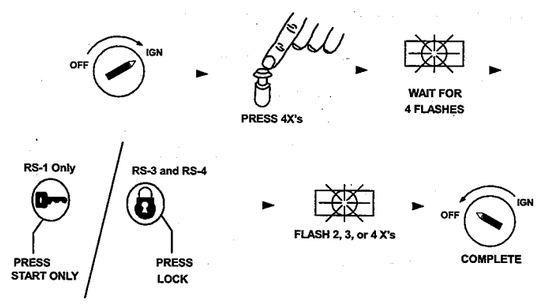
23. RS-1 G2 / RS-4 G2: ***Default = RS-4 G2***
While remote started, this option allows the remote start button to unlock the doors with a 2 second press.

24. Option Reset: (RESTORE TO DEFAULT)
This option restores all programmable options to factory default. The unit will flash the lights 2 times and all values will be reset to factory original settings.

TRANSMITTER PROGRAMMING

Transmitter Programming: (Excludes RS-00 model without remotes)
Notes: Remote Transmitters/Transceivers come pre-programmed from the Factory. When re-learning remotes or adding remotes, ALL your system's remote codes must be learned at time of programming!! These systems allow storage of up to 4 different remote codes in memory.

1. Turn Ignition Key to the ON position. (Do not start vehicle).
2. Press Program/Valet button 4 times. Wait for the unit to flash the parking lights and/or honk horn exactly 4 times.
3. RS-3, RS-4: Press Lock Button #1 (Start button of RS-1) of the transmitter to be learned. You should get 2 light flashes and 2 horn honks indicating the code has been learned. Now the unit is waiting for a 2nd code, so repeat this step as needed with up to 3 additional remotes. The unit will flash the lights in succession after each code learned for up to 4 codes. (3 flashes after the 2nd code, 4 flashes after the 3rd code and 0 for 4th code.) If all 4 codes are learned, the unit will automatically exit code learning mode, otherwise turn key OFF.



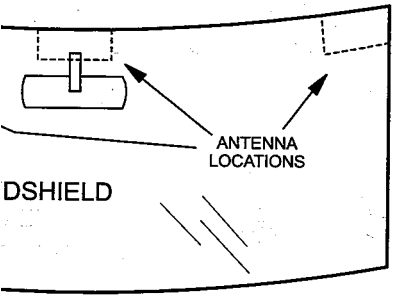
ICLE PROGRAMMING

or 2 vehicle operation. A single remote can control two independent

e all 4 remotes for programming. For the first vehicle (remotes 1 & 2)
or second vehicle (remotes 3 & 4) press the Transmitter side button.
u now have 4 seconds to press the Lock button while in learn mode.
after the other) before exiting learn procedure.

TENNA DIAGRAM

one inch away from metal surface.



MANUAL TRANSMISSION MODE

MANUAL TRANSMISSION INSTALLATION:
PINK WIRE = (-) Door Switch (default = Glow Plug)
GREEN WIRE = (-) Hand Brake (default = OEM Start)

After programming Option #11-1 or #11-3 for manual transmission mode, the Door Trigger and Hand Brake wire must be connected for the manual transmission remote start procedure. The Pink "Glow Plug" wire becomes a Door Pin input and the Green "OEM Start" wire becomes a Hand Brake input that must be used for the manual transmission remote start procedure. A Databus module can also supply the Door and Hand Brake status signal on most late model vehicles. Please check Databus module features before connecting door and hand brake wires. A door opening will now cancel a remote start that was previously "set-up" by the user. The Hand Brake and Door Trigger is a safety feature to cancel a remote start. **Note: You can't use the interior lights as a door trigger if the interior lights turn on with ignition off.**

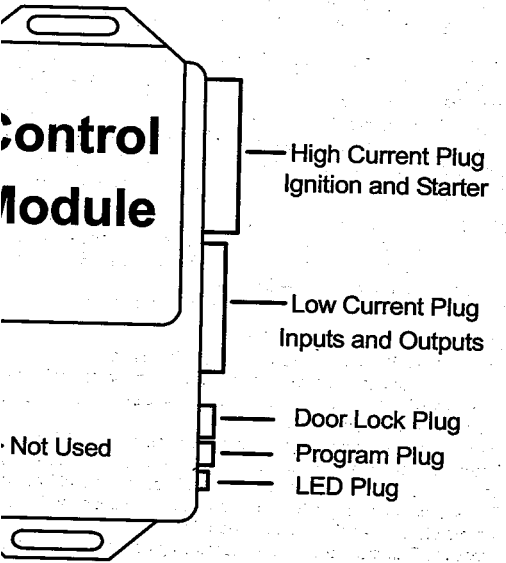
OPTION 11 - TRANSMISSION TYPE: Manual Transmission Requires Tach Wire Connected and programmed.
This option selects automatic or manual transmission mode - 3 Choices of operation.

4. Manual Shift Transmission - Requires Remote Start Button pressed with (-) Hand Brake set.
5. ***Automatic Transmission – Default.***
6. Manual Shift Transmission – Starts Exit procedure with (-) Hand Brake Set and engine running.

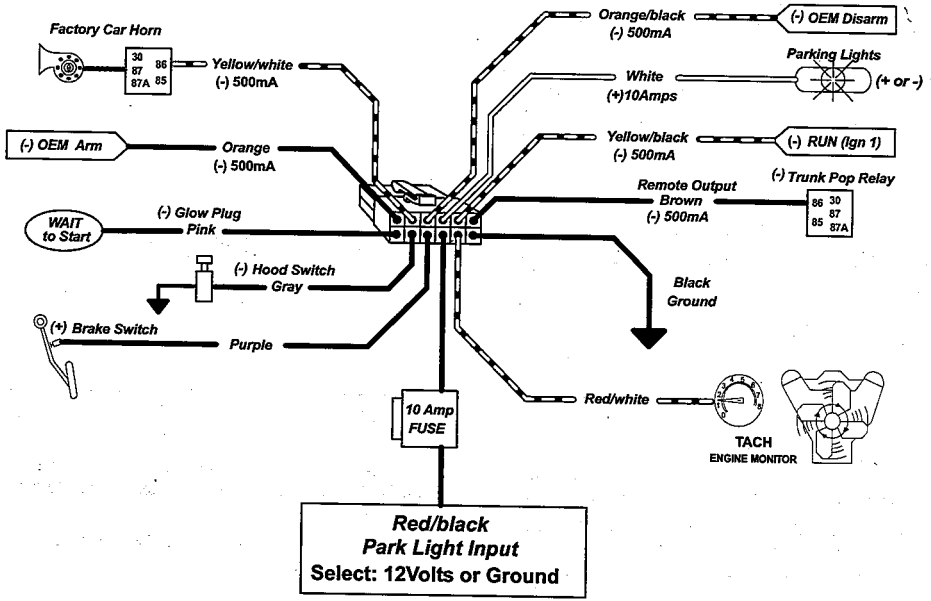
Manual Transmission Exit Procedure:

1. ***Option 11-1:*** With engine running and vehicle in neutral, set parking brake, then press "Idle Down" Icon or remote start on transmitter. The remote starter will turn on and take over operation of the vehicle.
2. ***Option 11-3:*** With engine running and vehicle in neutral, set parking brake. The remote starter will turn on and take over operation of the vehicle.
3. Remove key, exit vehicle (remote starter unit must "SEE" door opened, then closed with engine running).
4. Press Lock button within 10 seconds of closing door for "Idle Down" (engine stays running). Press Lock a 2nd time to cancel "Idle Down" (engine turns off) and set up Manual Transmission Mode.
5. Press Lock button after 10 seconds to Lock the doors and shut down the engine. From this point, the system will remote start the engine unless a door is opened.
6. Press the Remote Start Button after closing door to set up Manual Transmission Mode without Locking or Arming OEM Alarm System.

ECTOR PLUG DIAGRAM



RS-1 G2 / RS-3 G2 / RS-4 G2



NOTE: The Generation 2 connection has changed from previous units. The Jumper has been removed for the Parking Lights. The wire colors have changed.

E START DIAGNOSTICS

one to seven times and doesn't attempt remote. The LED will continue to on, it means the following:

Brake Switch.
with Hood Switch.
Mode.
On before Remote Start.
Transmission Error.

PIN HIGH-CURRENT CONNECTOR

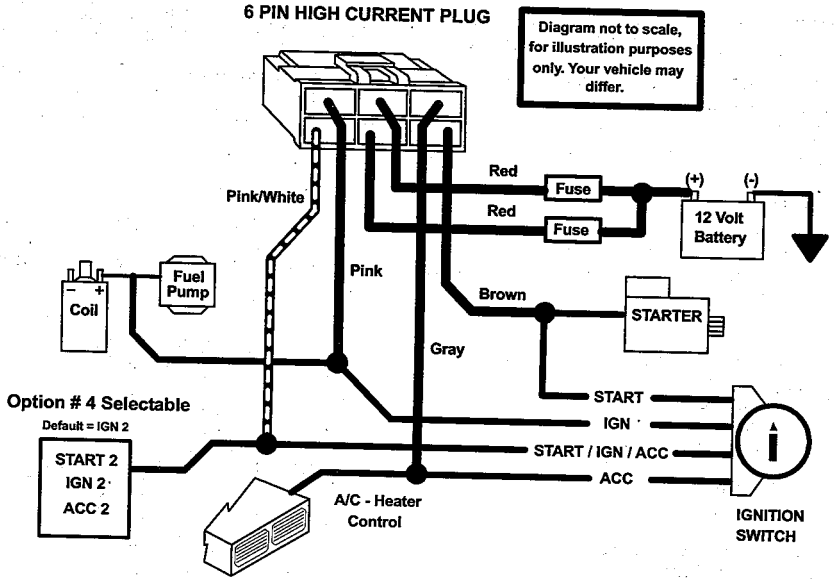
ed):
ant Power. We recommend the BATTERY POSITIVE TERMINAL.

ONLY while the STARTER MOTOR is CRANKING.

essory Power for systems such as HEAT and A/C. Typically, this wire S OUT WHEN CRANKING, then returns as the engine starts and runs.

Ignition Power for systems such as Spark and Fuel. Typically, this wire AYS ON WHEN CRANKING, and continues ON as the vehicle runs.

20A (Option 4):
can be configured as a Second IGN, ACC or STARTER output. Use e DEFAULT setting is IGNITION.



NOTE: The Generation 2 Connection has changed from previous units. The Jumpers have been removed for the PINK/WHITE Wire Function. Option # 4 Selects ACC 2, IGN 2 or START 2.

ATA PORT

directly Plug-In our Data Port Bypass Modules. There are 2 types of
efault is set for SL series Protocol. Please refer to Databus
t Protocol must be programmed for the correct module.

a Port

the factory Immobilizer and operate the keyless entry

vehicles computer at the OBD2 Data connector or Canbus wires.
ns with DP Series have a direct Data Port Plug-In for the Databus
between the Alarm/Remote Starter and the bypass interface

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e and Databus module.