

# WARRANTY VALIDATION

PLEASE FILL OUT THIS FORM  
AND MAIL IT IN TO REGISTER YOUR WARRANTY

Your Name \_\_\_\_\_  
Address \_\_\_\_\_  
\_\_\_\_\_  
Email Address \_\_\_\_\_  
Dealer Name \_\_\_\_\_  
Address \_\_\_\_\_  
\_\_\_\_\_  
Date of Purchase \_\_\_/\_\_\_/\_\_\_ Model # \_\_\_\_\_  
Make/Model of Car \_\_\_\_\_  
Year of Car \_\_\_\_\_ V.I.N. # \_\_\_\_\_  
Final Quality Check By \_\_\_\_\_

Mail to: JBS Technologies  
225 Technology Way • Steubenville, Ohio 43952

## PROGRAMMING FUNCTIONS FOR YOUR WALLET OR GLOVE BOX

### ATTENTION:

We urge you to immediately place this card in your wallet.

#### Adding Additional Remotes

The hood must be open or the hood pin wire must be grounded. Then, press and hold Button #1 on the working transmitter for ten (10) seconds or until the ignition relay clicks or the check engine light flashes once, release Button #1. Press and release any button on the new remote control. The ignition relay will click or the check engine light will flash three (3) times. Close the hood or remove the hood pin wire from ground and try both remotes.

#### Tach/Tachless Option The brake must be depressed.

Press and hold Button #1 for 5 seconds or until the ignition relay clicks or the check engine light flashes once. Release. Press and release Button #1, the ignition relay clicks or the check engine light flashes once. The unit is now programmed for Tachless Mode. Press and release Button #2, the ignition relay clicks or the check engine light flashes twice. The unit is now programmed for Tach Mode. **NOTE:** The factory setting is Tachless Mode.

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Protected by one or more  
of the following patents:  
Patent #5, 459, 477 Patent #5, 612, 670  
Patent #5, 886, 622 Patent #5, 677, 664  
Patent #5, 942, 988 Patent #6, 101, 428  
Patent #6, 452, 772  
Other patents pending.

REMOTE STARTER • MODEL RS821 / RS851 / RS79

## SYSTEM FEATURES

<b>Two-Button Extended Range Remote Control</b>	Remotely start your car to run the heater or air conditioning from an extended distance.
<b>Two-Way Capability</b>	Works with your factory keyless remote transmitter or the transmitter included with this kit.
<b>Parking Light Confirmation</b>	Confirms that your vehicle has received a remote signal and will remain on if the engine is remotely started. <b>(Optional part #775 required.)</b>
<b>Code Learning</b>	Allows your remote starter to learn new remotes, should you want to add remotes, or if remotes are lost.
<b>Pre Programmed Run Time</b>	Unit is programmed to run for 15 minutes or stop at any time with the remote, by pressing the brake or by opening the hood.
<b>Pit Stop Mode</b>	Allows you to exit the vehicle while the engine remains running.
<b>Tach/Tachless Option</b>	A programmable feature that lets you decide to choose the easy to install tachless operation or the wire-in, tach operation.
<b>Limited Lifetime Warranty</b>	Guarantees life-long protection.

## SYSTEM COMPONENTS

Your system includes:	1- Warranty
1- Main Control Module with On-board Relay	1- Installation & Operation Guide
1- Two Button Remote Transmitter	1- Bonus Installation Kit
1- 9-Pin Wire Harness	• Installation Video
1- Hood Pin Switch	• Computer-friendly Test Light
1- Warning Sticker for Under the Hood	• Electrical Tape
6- Heavy Gauge Wires	• Wire Ties
	• Razor Knife

## REQUIRED TOOLS

Unless your remote starter includes a Bonus Installation Kit you will need the following items: a sharp knife, electrical tape and a computer-friendly test light. A 5/16 inch drill bit may be needed to install the hood pin switch. If the bottom of your dash on the driver's side will come off, you must remove it. If this is the case a screwdriver or a wrench may be needed.

## TECHNICAL ASSISTANCE

Should you need help. First check our website at [www.bulldogsecurity.com](http://www.bulldogsecurity.com) or call our toll-free Tech Support Hotline Monday through Friday 9AM-8PM and Saturday 10AM-4PM EST at 800-878-8007.

You must give the following information:

- Name
- Telephone Number with Area Code (Fax number if applicable)

# BULLDOG SECURITY

1- 800- 878- 8007

[www.bulldogsecurity.com](http://www.bulldogsecurity.com)

email: [techsupp@bulldogsecurity.com](mailto:techsupp@bulldogsecurity.com)

MADE IN AMERICA, GUARANTEED FOREVER



## OPERATING FUNCTIONS FOR YOUR WALLET OR GLOVE BOX

### ATTENTION:

We urge you to immediately place this card in your wallet.

### OPERATING INSTRUCTIONS

**Start (with RS82I remote)** Press and release button #1 the vehicle will remote start. **Start (with factory keyless entry remote)** Press and release the lock button on the remote 3 times, the vehicle will remote start. **Stop (with RS82I remote)** Press and release button #2 the vehicle's remote starter will shut down. **Stop (with factory keyless remote)** Press and release the lock button on the remote, the remote starter will shut down. **Pit Stop: Exiting the Car with the Engine Running (with RS82I remote)** Make sure the transmission is in park, press and release button #1 (start) before turning the ignition switch off. (The engine will remain running for 15 minutes.) **Pit stop: (with factory keyless entry remote)** Press and release the lock button on the remote 3 times before turning the ignition switch off. (The engine will remain running for 15 minutes.)

# VEHICLES WITH FACTORY ANTI-THEFT SYSTEMS (CONT.)

Manufacturer	Make/ Year	Anti-theft
PONTIAC	BONNEVILLE 89+	VATS
	FIREBIRD 88+	VATS
	GRAND AM 96-98	PASSLOCK 1
	GRAND AM 99+	PASSLOCK 2
	GRAND PRIX 92-96	VATS
	MONTANA 99+	TRANSPONDER
PORSCHÉ	ALL 97+	TRANSPONDER
	SAAB	TRANSPONDER
	SATURN	FACTORY
	2000+	TRANSPONDER
TOYOTA	AVALON 98+	TRANSPONDER
	CAMRY 98+	TRANSPONDER
	LAND CRUISER 98+	TRANSPONDER
	SOLARA 99+	TRANSPONDER
	SUPRA 98+	TRANSPONDER
VOLKSWAGON	BEETLE 98+	TRANSPONDER
	GOLF 98+	TRANSPONDER
	PASSAT 98+	TRANSPONDER
VOLVO	ALL 98+	TRANSPONDER

FCC ID: J3STXJS1194

This device complies with part 15 of the FCC Rules, Operation is subject to the following two conditions:  
 (1) This device may not cause harmful interference, and  
 (2) This device must accept any interference received, including interference that may cause undesired operation.

# TECHNICAL ASSISTANCE (CONT.)

- Year, Make, and Model of the vehicle
- The model you are installing
- The type of assistance you are requesting

If you give the above information you will be called back as soon as possible.

Please do not skip any steps.

## BEFORE YOU BEGIN

If your vehicle has an anti-theft system, you will need an additional module, Part #791.

Congratulations, you have purchased one of the most advanced remote starter systems ever made. Your new remote starter is a technological breakthrough utilizing the most advanced, state of the art technology and components. It is computer controlled and manufactured in the U.S.A. The dependability and variety of features make Bulldog Security the leader in the industry. Enjoy your new remote starter for years to come!

This remote system is designed to start your vehicle by sending a command signal from the remote transmitter. It is important that your installation be done in a well-ventilated area. It is the responsibility of the owner to ensure that the remote system is not used to start the vehicle in an undesired location.

It is recommended that a carbon monoxide detector be installed in the living area near a location where the vehicle may be garaged.

Since there are many different makes and models of vehicles, visit our website, [www.bulldogsecurity.com](http://www.bulldogsecurity.com).

Read this manual thoroughly before starting the installation. You must decide if the parking light option is desired. If so, an optional Part #775 will be needed.

### TACH/TACHLESS OPERATION

In most cases the decision to go with tachless mode will save time during the installation. If your vehicle is hard-starting then you should use tach mode.

MAKE SURE YOU PLACE THE WARNING STICKER UNDER YOUR HOOD.

## PRECAUTIONS

This system is designed for use with vehicles equipped with fuel-injected, gasoline engines with automatic transmissions only.

### SAFETY FIRST!

Never start your vehicle if it is indoors, if the keys are in the ignition and unless you're sure the car is in park. A periodic safety check is recommended to ensure that your system is in proper working order.

# PRECAUTIONS

**DO NOT** use mechanical wiring connections, such as crimp or snap together taps. Follow instructions on page 6-8.

**DO NOT** disconnect the battery if the vehicle has an anti-theft-coded radio or is equipped with an airbag. Doing so may cause a warning light to be displayed and may require a trip to the dealer to be corrected.

**DO NOT** leave the interior or exterior lights on for an extended period of time as it may cause battery drain. Remove the dome light fuse from the fuse box. **NOTE:** Starter systems do not work well with a partially discharged battery.

**DO NOT** mount the control module until all connections have been made and tested. Using wire ties or double sided tape, **MOUNT THE MODULE UNDER THE DASH.**

**PLEASE USE CAUTION: DO NOT CUT, PROBE OR DISCONNECT THE VEHICLE'S AIRBAG WIRES. THESE WIRES WILL ALMOST ALWAYS BE INSIDE A BRIGHT YELLOW TUBE LOCATED NEAR THE STEERING COLUMN HARNESS.**

## WARNING!

### GENERAL MOTORS REAR WHEEL DRIVE VEHICLES AND DODGE DAKOTAS

All General Motors rear wheel drive vehicles and Dodge Dakotas built prior to 1996 do not have an electrical Neutral Safety switch. They have a mechanical neutral safety switch. The mechanical neutral safety switch operates as follows.

- The key will only turn to start position when the gear selector is in park or neutral.
- The key can only be removed from the ignition switch when the gear selector is in the park position.

You must use special precautions with this system. For more information see page 13.

# USING YOUR TEST PROBE

To operate your test probe, connect the black clip to a good chassis ground. Connect the red clip to a good 12V positive source. If the test probe is connected correctly, both the green and the red lights will be dimly illuminated. If a positive source is probed, the red light will glow bright and the green light will go out. If a negative source is probed, the green light will glow bright and the red light will go out.

# MAKING CONNECTIONS

- Strip back two inches of insulation on the wire from the remote starter.

Two Inches of Bare Wire



- Strip back one inch of insulation on the wire you need to connect to.

One Inch of Bare Wire



- Separate the vehicle wire(s) as shown. Make the separation large enough to fit the other wire through.



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# VEHICLES WITH FACTORY ANTI-THEFT SYSTEMS (CONT.)

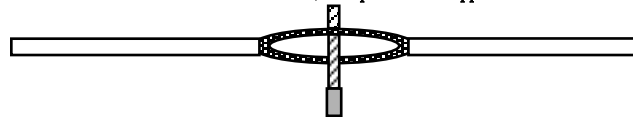
Manufacturer	Make/ Year	Anti-theft
	SIERRA 98+	PASSLOCK 2
	SONOMA 98+	PASSLOCK 2
	SUBURBAN 98+	PASSLOCK 2
	YUKON 98+	PASSLOCK 2
	YUKON XL 2000+	PASSLOCK 2
HONDA	ACCORD 98+	TRANSPONDER
	ODYSSEY 98+	TRANSPONDER
	PRELUDE 98+	TRANSPONDER
	S2000	TRANSPONDER
INFINITI	I30 98+	TRANSPONDER
	Q45 98+	TRANSPONDER
	QX4 98+	TRANSPONDER
JAGUAR	ALL 98+	TRANSPONDER
JEEP	GRAND CHEROKEE 99+	TRANSPONDER (GREY KEY ONLY)
	WRANGLER 99+	TRANSPONDER (GREY KEY ONLY)
LEXUS	ALL 97+	TRANSPONDER
LINCOLN	CONTINENTAL 97+	TRANSPONDER
	LS 2000+	TRANSPONDER
LINCOLN	MARK V3 97+	TRANSPONDER
	NAVIGATOR 97+	TRANSPONDER
	TOWN CAR 97+	TRANSPONDER
MERCEDES	ALL 97+	TRANSPONDER
MERCURY	COUGAR 99+	TRANSPONDER
	MOUNTAINEER 98+	TRANSPONDER (Some)
	MYSTIQUE 97+	TRANSPONDER (Some)
	SABLE 96+	TRANSPONDER
NISSAN	MAXIMA 98+	TRANSPONDER
OLDSMOBILE	ACHI EVA 95+	PASSLOCK 1
	ALERO 99+	PASSLOCK 2
	AURORA 95+	VATS
	BRAVADA 98+	PASSLOCK 2
	CUTLASS 97+	PASSLOCK 2
	NISSAN- EIGHT	VATS
	SILHOUETTE 99+	TRANSPONDER

# VEHICLES WITH FACTORY ANTI - THEFT SYSTEMS

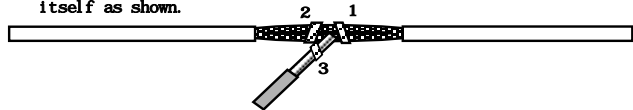
Manufacturer	Make/ Year	Anti - theft
	MALIBU 97+	PASSLOCK 2
	MONTE CARLO 96-99	VATS
	MONTE CARLO 2000+	PASSLOCK 2
	FULL - SIZE PU 98+	PASSLOCK 2
	S- 10 98+	PASSLOCK 2
	SAVANNAH 98+	PASSLOCK 2
	SUBURBAN 98+	PASSLOCK 2
	TAHOE 98+	PASSLOCK 2
	VAN 98+	PASSLOCK 2
	VENTURE 99+	TRANSPONDER
CHRYSLER	CONCORD 98+	TRANSPONDER
	LHS 98+	TRANSPONDER (GREY KEY ONLY)
	SEBRING CONTV. 98+	TRANSPONDER (GREY KEY ONLY)
DODGE	300M 99+	TRANSPONDER (GREY KEY ONLY)
	INTREPID 98+	TRANSPONDER (GREY KEY ONLY)
	NEON 2000+	TRANSPONDER (GREY KEY ONLY)
FORD	CONTOUR 97+	TRANSPONDER (Some)
	CROWN VICTORIA 98+	TRANSPONDER
	EXCURSION 2000+	TRANSPONDER
	EXPEDITION 97+	TRANSPONDER
	EXPLORER 97+	TRANSPONDER
	FOCUS 2000+	TRANSPONDER
	MUSTANG 98+	TRANSPONDER
	F150/250 98+	TRANSPONDER
	RANGER 99+	TRANSPONDER
	TAURUS 96+	TRANSPONDER
	WINDSTAR 2000+	TRANSPONDER
GMC	DENALI 99+	PASSLOCK 2
	ENVOY 99+	PASSLOCK 2
	S- 15 JIMMY 98+	PASSLOCK 2
	SAFARI 98+	PASSLOCK 2

## MAKING CONNECTIONS (CONT.)

4. Insert the wire(s) from the starter through the hole as shown. If two or more wires are inserted, wrap them in opposite directions.



5. Wrap the wire around one side then the other and finally around itself as shown.



6. Use electrical tape to wrap. Be sure to cover the wire about two inches on either side of the connection. First pull the wire that you have just connected along side the wire you connected to, tape and wire tie them together. Use this method for all connections.

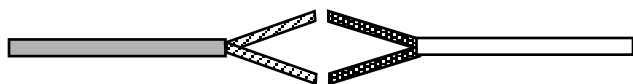


**CAUTION:** All wires must be wrapped with tape and wire tied.

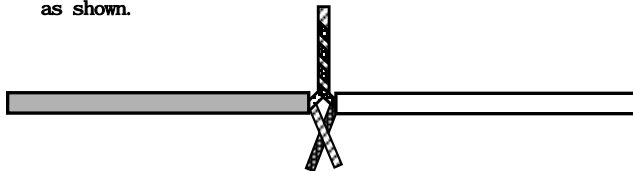
## MAKING END TO END CONNECTIONS

Use this method **ONLY** when connecting two separate wires end to end.

1. When tying two separate wires together at their ends, strip back 1" of insulation on both wires and separate the strands of wire as shown below.

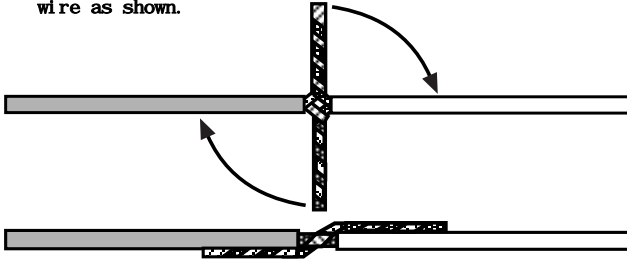


2. Twist upper wires together, twist lower wires together as shown.

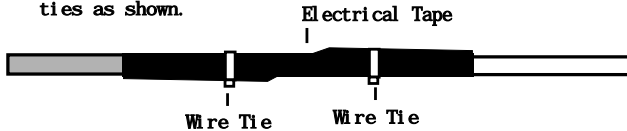


## MAKING CONNECTIONS (CONT.)

3. Lay upper twisted pair of wires over right wire as shown. Bring lower twisted pair of wires up to meet the left wire as shown.



4. Use electrical tape to wrap, be sure to cover about 2 inches on either side of connection. Secure with wire ties as shown.



## LOCATING & MAKING CONNECTIONS

For wiring charts please visit our website,  
[www.bulldogsecurity.com](http://www.bulldogsecurity.com).

Most of the wires you will be using will be in a taped or nylon sleeve coming from the ignition switch. You must find and remove about six inches of this outer covering for testing and connecting.

**CONSTANT POWER (RED) (+12V, key in any position including off)**  
 Make all connections as close to the ignition switch as possible. These wire(s) are in your vehicle's main ignition harness, usually located in the steering column coming from the ignition switch. Probe each wire with your provided test probe. The correct wire(s) will show +12V and the RED light will glow bright on the test probe when the ignition switch is in these 5 positions (ACC-LOCK-OFF-RUN-CRANK).

1. If your vehicle has only (1) constant power wire, attach both heavy gauge **RED** wires to it.
2. If your vehicle has (2) constant power wires, attach one **RED** wire to each.



## VEHICLES WITH FACTORY ANTI - THEFT SYSTEMS

Manufacturer	Make/ Year	Anti-theft	
ACURA	TL 99+	TRANSPONDER	
	CL 98+	TRANSPONDER	
	RL 99+	TRANSPONDER	
	INTEGRA 00 +	TRANSPONDER	
	NSX	TRANSPONDER	
AUDI	A4 00+	TRANSPONDER	
	A6 00+	TRANSPONDER	
	A8 98+	TRANSPONDER	
BMW	ALL 97+	TRANSPONDER	
BUICK	CENTURY 97+	VATS	
	LESABRE 90-96, 2000	VATS	
	PARK AVE 91-96	VATS	
	PARK AVE 97+	TRANSPONDER	
	REGAL 93-96	VATS (Some)	
	RIVIERA 93-99	VATS (Some)	
	ROADMASTER 93-96	VATS	
	SKYLARK 96-98	PASSLOCK 1	
	CADILLAC	ALLANTE 91-93	VATS
		BROUGHAM 90-96	VATS
CATERA 98+		TRANSPONDER	
DEVILLE 92-96		VATS	
DEVILLE 99+		TRANSPONDER	
ELDORADO 89-98		VATS	
ELDORADO 99+		VATS	
ESCALADE 99+		PASSLOCK 2	
FLEETWOOD 90-96		VATS	
SEVILLE 90-98		VATS	
CHEVROLET	SEVILLE 99+	TRANSPONDER	
	SLS/ STS 97+	TRANSPONDER	
	ASTRO 98+	PASSLOCK 2	
	BLAZER 98+	PASSLOCK 2	
	CAMARO 86+	VATS	
	CAVALIER 95-99	PASSLOCK 1	
	CAVALIER 2000+	PASSLOCK 2	
	CORVETTE 88+	VATS	
	EXPRESS 98+	PASSLOCK 2	
	IMPALA 2000+	PASSLOCK 2	
LUMINA 96+	VATS		

## HOW TO USE YOUR NEW REMOTE TRANSMITTER

### Start

Press and release Button #1 the vehicle will remote start.

### Stop

Press and release Button #2 the vehicle will shut down.

### Pit Stop: Exiting the Car with the Engine Running

Make sure the transmission is in park and the brake is not pressed then press and release Button #1 (start) before turning the ignition switch off. (The engine will remain running for 15 minutes or until the brake is pressed.)

### (Model RS85 Only)

#### Start

**Using the remote included in this kit:** Press and release Button #1.

**Using your factory keyless entry remote:** Press the Lock button three times.

**Using Aftermarket Alarm:** Press the second channel button on your remote transmitter.

#### Stop

**Using the remote included in this kit:** Press Button #2.

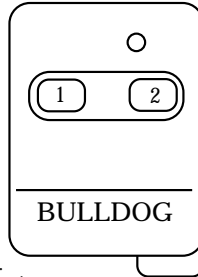
**Using your factory keyless entry remote:** Press Lock button.

**Using Aftermarket Alarm:** Press and release the second channel button on your remote transmitter.

### Pit Stop (Exiting the Car with the Engine Running)

**With your factory keyless remote:**

If the vehicle is running with the ignition key, a press to Lock button on the factory keyless will cause the parking lights to flash once (if connected). You can now turn off your ignition key, remove the key and exit the vehicle. The vehicle will remain running for 15 minutes. **NOTE: Some vehicle's factory keyless won't work if the engine is running. If your vehicle operates in this fashion, pit stop will not function.**



## LOCATING & MAKING CONNECTIONS

**IGNITION WIRE(S) (WHITE) and (WHITE WITH RED STRIPE) (+12V in run, crank and sometimes accessory)**

**Make all connections as close to the ignition switch as possible.**

The ignition wire(s) are also located in the main harness coming from the ignition switch. Check your chart for probable colors and probe each wire with your provided test probe. The correct ignition wire(s) will show +12V and the RED light will glow bright when the ignition switch is in the **RUN, CRANK** and sometimes in the **ACCESSORY** (newer GMs) position. The correct wires will not show +12V when in the **OFF** or **ACCESSORY** position (other than some GMs).

1. If your vehicle has only one (1) ignition wire, as most 1993 and older domestic and import vehicles do, connect the heavy gauge **WHITE** wire to the Ignition #1 wire in the ignition switch harness.
2. If your vehicle has two (2) ignition wires, connect the heavy gauge **WHITE STRIPE** wire as stated in step 1, then connect the heavy gauge **WHITE WITH RED STRIPE** wire to the Ignition #2 wire in the ignition switch harness.
3. If your vehicle has three (3) ignition wires, as some newer GMs, Fords and Chryslers do, connect the heavy gauge **WHITE** wire, Ignition #1 wire and Ignition #3 wire in the ignition switch harness all together.

**ACCESSORY WIRE(S) THAT POWER THE HEATER/BLOWER MOTOR (WHITE WITH BLACK STRIPE) (+12V in run or on positions). This wire is also in the main ignition switch harness. Make this connection as close to the ignition switch as possible.**

Most vehicles will have one (1) accessory wire; however **some** Fords, newer GM vehicles and Chrysler 94 and up will have two (2) or more accessory wires. Check your wire color chart and then verify these wire(s). The correct wire(s) will show +12V and the RED light will glow bright when the ignition switch is in the **ACC** or **RUN** or positions, but never **OFF** or **CRANK**.

1. If your vehicle has only one (1) accessory wire connect the heavy gauge **WHITE WITH BLACK STRIPE** wire to this wire.
2. If your vehicle has two (2) accessory wires (some GMs and most Fords), connect the **WHITE WITH BLACK STRIPE** wire to both accessory wires. At this time, if you did not use the Ignition #2 heavy gauge **WHITE WITH RED STRIPE** wire (if your vehicle does not have an Ignition #2 wire) you can take that **RED WITH WHITE STRIPE** wire and attach it to the Accessory #2 wire, this way you do not have to tie both the Accessory #1 wire and the Accessory #2 wires together on the **WHITE WITH BLACK STRIPE** wire from the main module.

**STARTER/CRANK WIRE (YELLOW WITH BLACK STRIPE) (+12V in the start position only)**

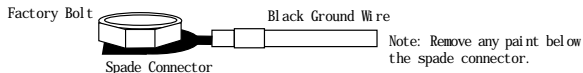
**Make all connections as close to the ignition switch as possible.**

The starter/crank wire is also in the main harness. Check your chart for probable colors and verify the wire. The correct wire(s) will show +12V and the RED light will glow bright **only** in the **crank** position. This wire will not show +12V in any other position. Attach the **YELLOW WITH BLACK STRIPE** wire to it. **NOTE:** Most Nissans will have two (2) starter/crank wires. Both must be connected to the **YELLOW WITH BLACK STRIPE** wire. **NOTE:** Some vehicles use two starter/crank wires (mostly Nissans and Audis). In this case, connect both wires from the ignition switch harness to the **YELLOW WITH BLACK STRIPE** wires from the main module.

# LOCATING & MAKING CONNECTIONS

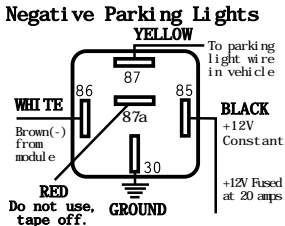
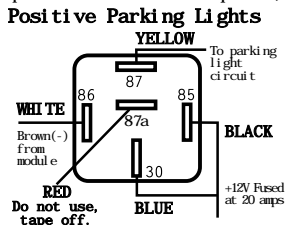
## CHASSIS GROUND (BLACK)

Locate an easy to get to bolt or screw located under the driver's side of the dash and attach the **BLACK** ground wire from the 9-pin harness securely as pictured.



## PARKING LIGHT OUTPUT (-) (BROWN) (Optional Part #775 required)

Probe the wire(s) coming from your headlamp switch. Find a wire that will show +12V only when the parking lights are ON, then switch the controller to the headlight position and test the same wire. It should have power in the parking light position and the headlight position. Turn the light switch OFF, the +12V should then turn OFF also. This is the correct wire. Connect the **YELLOW** wire from Part #775 to this wire. Connect the **BROWN** wire from the 9-pin harness to the **WHITE** wire on Part #775. Connect the **BLACK** and the **BLUE** wires from part #775 to +12V constant fused at 20 amps. See "positive" diagram.



If your vehicle has a negative (-) parking output. When probing the wire(s) coming from your headlight switch, find a wire that shows (-) negative or ground when the parking lights are on, then switch the controller to the headlight position and test this same wire. It should have (-) negative or ground in the parking light position and the headlight position. Turn the light switch off, the (-) negative or ground should then turn off also. This is the correct wire. Connect the **YELLOW** wire from Part #775 to this wire. Connect the **BROWN** wire from the 4-pin harness to the **WHITE** wire on Part #775 connect the **BLACK** wire to 12V constant fused at 20 amps and connect the **BLUE** wire from Part #775 to ground. See "negative" diagram.

## BRAKE INPUT (BLUE WITH BLACK STRIPE)

The brake wire is located on the switch near and above the brake pedal, if you cannot locate this wire at the brake switch, you will then need to locate a wire at the rear window brake light or at the brake light system in the rear of the vehicle. The correct wire will show +12V only when the brake is pressed. Connect the **BLUE WITH BLACK STRIPE** from the 9-pin harness to this wire.

## ANTENNA (YELLOW)

For best results, run the antenna (**YELLOW WITH BLACK TIP** in the 9-pin harness) as straight as possible. **Do not place the antenna next to any metal parts or the vehicle's main computer control.**

# OPERATOR PROGRAMMING INSTRUCTIONS

## ADDING ADDITIONAL REMOTES:

The hood must be open. If you do not have the hood pin switch installed in the vehicle, you will need to put the hood pin wire (**BLACK WITH BLUE STRIPE**) to ground during programming for the unit to learn a new remote. After the unit has learned the new remote, remove this wire from ground and tape up.

## WITH A WORKING REMOTE CONTROL:

Press and hold Button #1 on the working remote for at least 6 seconds or until the ignition relay clicks or the check engine light flashes on the dash once. Release Button #1. Press and release any button on the new remote. The ignition relay clicks or the check engine light will flash 3 times confirming that the new remote was learned. Close the hood or remove the **BLACK WITH BLUE STRIPE** wire from ground and try the new remote.

## WITHOUT A WORKING REMOTE CONTROL:

To program in a new (replacement) remote without a working remote, you will need to unplug the main unit from under the dash, wait one minute, plug it back in and use the new remote.

## Tach/Tachless Option

**Press and hold the brake.**

Press and hold Button #1 on the remote for approximately six (6) seconds or until the relay clicks or the check engine light on the dash flashes once. Release Button #1, press and release Button #1 again. The relay clicks or check engine light on the dash flashes twice. The unit is now programmed for TACH option. Press and release Button #1 again, the relay clicks or the check engine light on the dash flashes once. The unit is programmed for back to TACHLESS option. **NOTE:** The factory setting is Tachless option.

## Programming to Start your Vehicle with your Factory Keyless Entry

Press and hold the brake, press and hold Button #1 on the Bulldog Security remote until the parking lights flash once (if connected) or for approximately six (6) seconds or until the unit clicks or flashes. Release. Press Button #2. The parking lights will flash once (if connected). **NOTE: A relay Part #775 is required to make this operate using the factory keyless transmitter. The relay is required to convert the positive door lock signal to a negative output for the RS85.**

## Programming for Aftermarket Alarm Starting (RS85I ONLY)

Press and hold the brake, press and hold Button #1 on the Bulldog Security remote until the parking lights flash once (if connected) or press and hold this button for approximately six (6) seconds. Release. Press Button #2 the parking lights will flash twice (if connected). The unit is now programmed for starting from your aftermarket alarm.

## Auxiliary Input (RS85I ONLY)

**(For your factory keyless or aftermarket alarm)**

When connecting this unit to a factory keyless entry system, you must locate the door lock wire that tests as a positive when you press the lock button on the factory remote. A relay Part #775 will be needed to convert the positive output from the door lock to a negative for the RS85. If the wire negative when you press the lock button on the factory remote, you can tie directly into the **BLUE** wire.

This wire is usually located in the driver's kick panel in the harness that is coming from the driver's door.

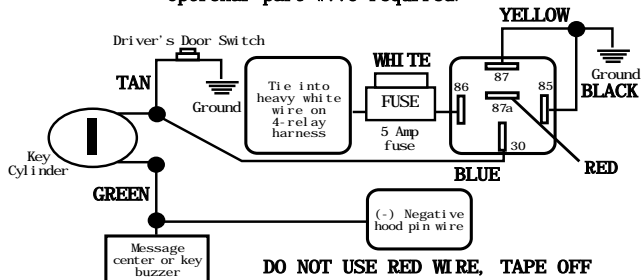
# NEUTRAL SAFETY SWITCH

## MECHANICAL NEUTRAL SAFETY SWITCH

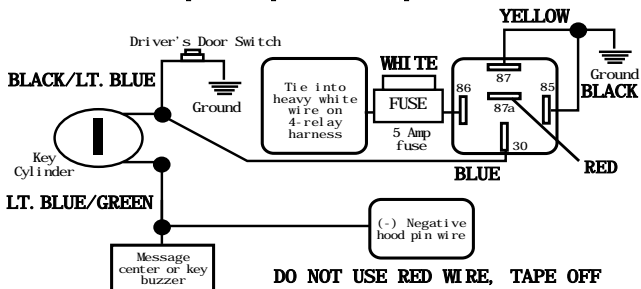
When installing a Bulldog remote starter on GM vehicles or Dodge Dakotas built prior to 1996, you must:

Use the diagram below to create a circuit that will prevent the remote starter from starting the vehicle unless the key is removed from the ignition switch.

### PRE-1996 GM REAR-WHEEL DRIVES WITH PURPLE CRANK WIRE Optional part #775 required.



### PRE-1996 DODGE DAKOTAS Optional part #775 required.



# LOCATING & MAKING CONNECTIONS

## FACTORY ALARM SHUT DOWN WIRE (FASD) (-) (RED WITH BLACK STRIPE)

If your vehicle is equipped with a factory alarm system (as most vehicles with a factory keyless entry are) or, if your vehicle DOES NOT have a factory remote control that honks the horn when locking and unlocking the doors, or when you use the key in the driver's door, you DO NOT get a light on the dash that says "security" then mostly you will not need to use this wire. If your vehicle is so equipped, probe for a small gauge wire (usually found in the driver's side kick panel) that shows (-) ground when the door lock cylinder is turned to the unlock position using the key. This wire will usually show a (+) positive voltage before turning the key. **NOTE:** Some factory disarm wires remain neutral before you turn the key to unlock instead of +12v positive. Connect the **RED WITH BLACK STRIPE** wire from the 9-pin harness to this wire.

## HOOD PIN SWITCH (BLACK WITH BLUE STRIPE)

This feature will keep the engine from starting, or shut off the engine when the hood is opened (this is **ONLY** when in remote start mode, this hoodpin switch has no control over an engine when started with the ignition key or under normal operation). Locate a good chassis ground, if at all possible do not install the pin switch in the rain gutter. Drill a 5/16 hole, insert the pin switch into the hole and tighten. Check for the hood adjustment, there is approximately 1/4" adjustment in the pin switch. Close the hood easy, making sure that the pin switch is not keeping the hood from closing all the way, if it does, cut off approximately 1/8" of the black plastic off of the top of the hoodpin switch and try closing the hood again. Check to make sure that the hoodpin switch remains neutral when the hood is closed and shows ground when the hood is open. Plug the **BLACK WITH BLUE STRIPE** wire from the 9-pin harness into the bottom of the hood pin switch.

## TACH INPUT (BLACK WITH WHITE STRIPE) (Optional)

By this time, you should have determined the way you want your vehicle to start (tach or tachless). Tachless uses voltage electronic signals and timing to work. Tach types use a signal directly from the ignition coil. If you have chosen the TACHLESS start option, simply proceed to the next step and skip the following instructions. Make sure you tape this wire up if not used. For TACH mode connect the **BLACK WITH WHITE STRIPE** wire from the 9-pin harness to the negative side of the coil or the tach wire at the coil pack under the hood. To find the coil pack follow the spark plug wires back to their beginning point. To operate in tach mode, make sure to program tach option. See programming tach option page 14.

## AUXILIARY INPUT (BLUE) (For Aftermarket Alarms)

If you use this starter with an aftermarket alarm, connect the **BLUE** wire from the 9-pin harness to the second or third channel output of your existing alarm. When the output is activated, a signal will activate the remote starter.

# LOCATING & MAKING CONNECTIONS

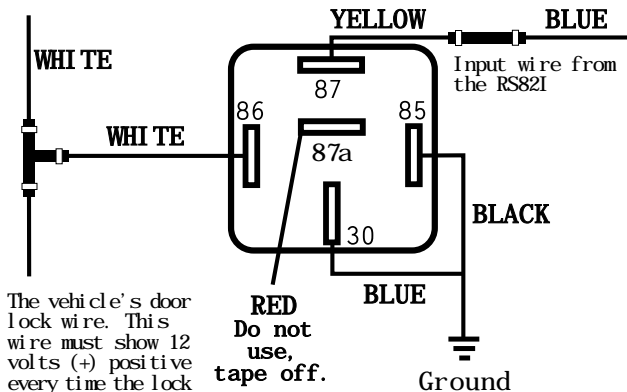
## AUXILIARY INPUT

(For your factory keyless or aftermarket alarm)

When connecting this unit to a factory keyless entry system, you must locate the door lock wire that tests as a positive when you press the lock button on the factory remote. A relay Part #775 will be needed to convert the positive output from the door lock to a negative for the RS85. If the wire negative when you press the lock button on the factory remote, you can tie directly into the **BLUE** wire.

## CONNECTING THE RS82I/RS85I TO FACTORY KEYLESS ENTRY REMOTE USING THE #775 RELAY

This feature must be programmed, see page 15.

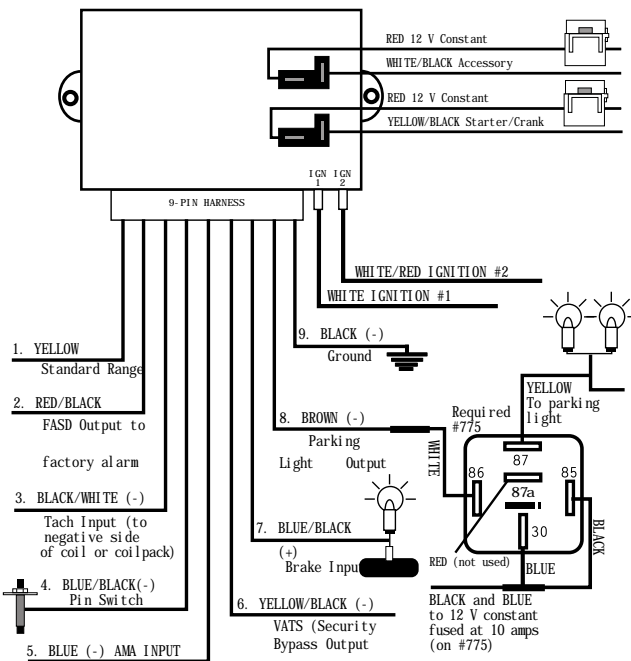


The vehicle's door lock wire. This wire must show 12 volts (+) positive every time the lock button on the factory remote is pressed.

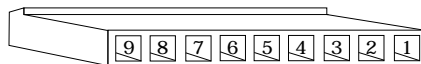
## SECURITY BYPASS OUTPUT (-)

This YELLOW WITH BLACK STRIPE WIRE will be used to operate a security bypass module when required. The YELLOW WITH BLACK STRIPE wire will hold a ground output the entire time the remote starter is activated. Connect this wire to the BLUE wire on the #791 or #793 bypass module, or the WHITE wire on the #721 or #781 bypass module.

# CONNECTING THE 9-PIN HARNESS



9-PIN HARNESS



Press the start button, if the unit receives a signal and your vehicle does not start and run you may have a factory anti-theft system. Refer to pages 16-19 to see if this applies to your vehicle.