

# INSTALLATION GUIDE

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## OWNER'S GUIDE

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### REMOTE STARTER MODELS RS82 AND RS85

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#### Technical Assistance

All tech personnel are expertly qualified to answer any technical questions.  
Technicians are available Monday through Friday from 9:00 a.m. until 8:00 p.m. and Saturday 10:00 a.m. until 4:00 p.m.

#### Address

288 Canton Avenue • Wintersville, Ohio 43953

#### Telephone

Phone: 740-264-4710 • 800-878-8007 • Fax: 740-264-7306

# SYSTEM FEATURES

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<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 (RS85 only) 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. (Optional part #775 required.)
<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

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Your system includes:

- 1- Main Control Module
- 1- Two Button Remote Transmitter
- 1- 11-Pin Wire Harness
- 1- 3-Pin 4-Relay Harness
- 1- Hood Pin Switch

- 1- Warranty
- 1- Warning Sticker for Under the Hood
- 1- Installation & Operation Guide
- 1- Bonus Installation Kit (with selected models including)
  - Installation Video
  - Computer-friendly Test Light
  - Electrical Tape
  - Wire Ties
  - Razor Knife

# REQUIRED TOOLS

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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

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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)
- 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

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**If your vehicle has an anti-theft system, you will need an additional module, Part #781 or #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, look at the **wiring chart on page 17 in this manual** and 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.**

For Model RS82 or RS85 follow the instructions until you reach page 13. For RS85 only, continue.

## PRECAUTIONS

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**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.

**DO NOT** use mechanical wiring connections, such as **crimp or snap together taps**. Follow instructions on below.

**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.**

### 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.

a) The key will only turn to start position when the gear selector is in park or neutral.

b) 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.

## USING YOUR TEST PROBE

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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 WIRING CONNECTIONS

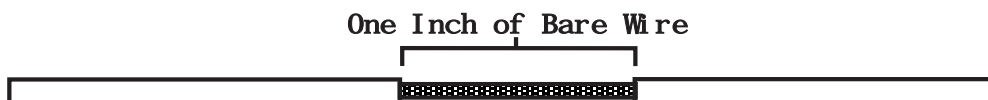
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**NOTE:** In most cases you should not cut your vehicle wire in two.

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



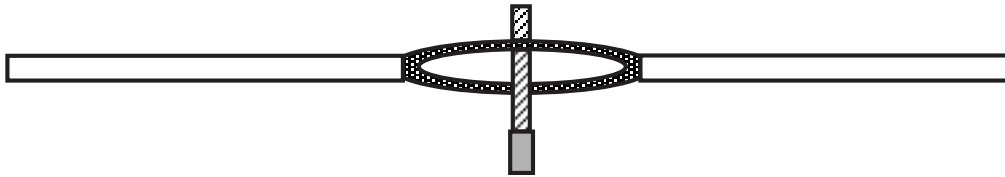
2. Strip back one inch of insulation on the wire you need to connect to.



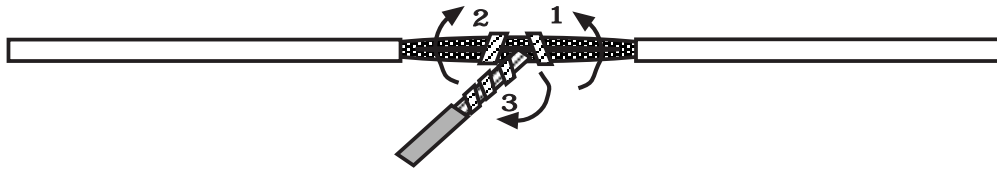
3. Separate the vehicle wire as shown. Make the separation large enough to fit the other wire through.



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.

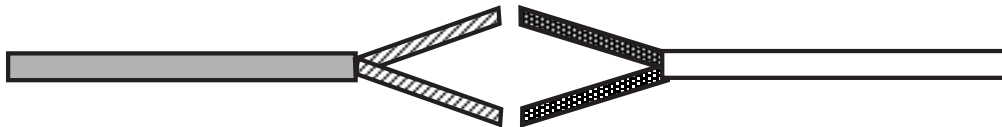


CAUTION: All wires must be wrapped with tape and wire tied.

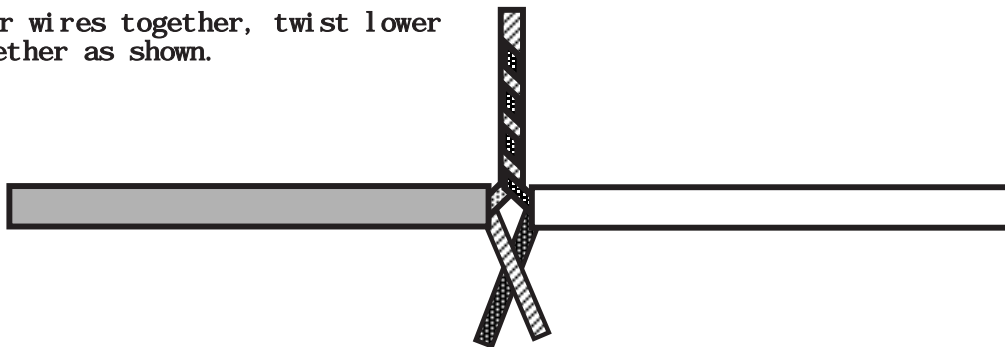
## MAKING END TO END CONNECTIONS

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

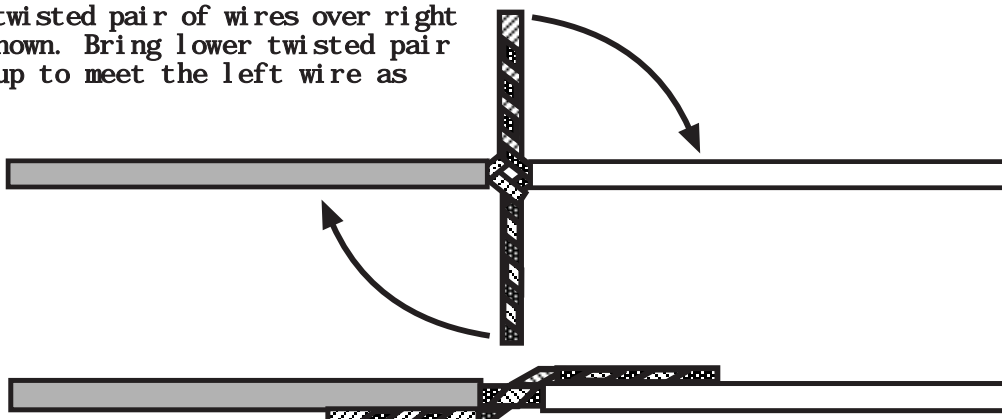
1. When tying two separate wires together at their ends, strip back one inch of insulation on both wires and separate the strands of wire as shown below.



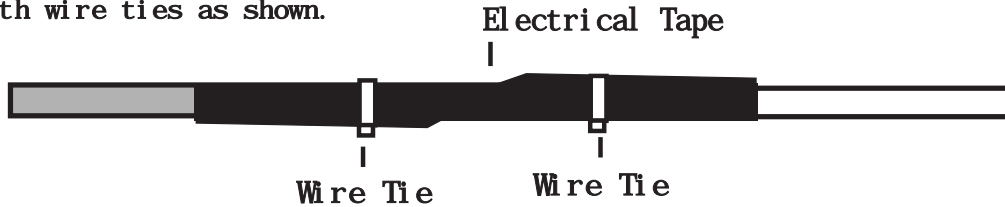
2. Twist upper wires together, twist lower wires together as shown.



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.



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

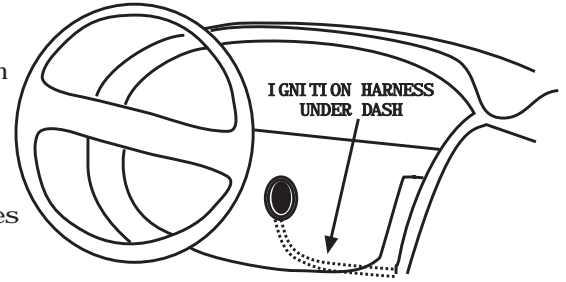
## LOCATING & MAKING CONNECTIONS

Please see the wiring chart on this website, [www.bulldogsecurity.com/wires.htm](http://www.bulldogsecurity.com/wires.htm).

### CONSTANT POWER (+12V, key in any position including off)

These wire(s) are in your vehicle's main ignition harness, usually located on the steering column coming from the ignition switch. Probe each wire with your test light. The correct wire(s) will show +12V 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 the **RED** wire from the 11-pin harness and both large **RED** wires from the 4-relay harness to the constant power wire in the vehicle.
2. If your vehicle has (2) constant power wires, attach the **RED** wire from the 11-pin harness and (1) large **RED** wire from the 4-relay harness to one of these constant power wires. Then connect the other large **RED** wire from the 4-relay harness to the second constant power wire in the vehicle.



### IGNITION WIRE(S) (+12V in run and crank position only)

The ignition wire(s) are also located in the main harness coming from the ignition switch. Probe each wire with your test light, the correct wire(s) will show +12V **only** when the ignition switch is in the **RUN AND CRANK** positions. The correct wires will not show +12V when in the **OFF** or **ACCESSORY** position. Most Ford, GM, and Chrysler vehicles 1994 and up have at least (2) ignition wires. Most foreign vehicles have only (1).

1. Strip back the **YELLOW WITH BLACK STRIPE** wire from the 11-pin harness and then strip back 1 inch of the **WHITE** wire from the 4-relay harness and twist both of these wires together.
2. Connect the **YELLOW WITH BLACK STRIPE** wire and the **WHITE** wire from step (1) to the ignition wire in the main harness.
3. If your vehicle has (2) ignition wires, connect the second **WHITE** wire from the 4-relay harness to it.
4. If your vehicle has (3) ignition wires (some GMs) connect the second **WHITE** wire from the 4-relay harness to both the second and third ignition wires in the vehicle.

**SPECIAL NOTE:** All 96 and newer GM trucks and SUVs have a second ignition wire (**WHITE** or **PINK WITH WHITE STRIPE** wire). This second ignition wire **must** be connected.

### ACCESSORY WIRE(S) THAT POWER THE HEATER/BLOWER MOTOR

(+12V in run or on positions) This wire is also in the main ignition switch harness usually located in the steering column. Make all connections as close to the ignition switch harness as possible.

Most vehicles will have (1) accessory wire; however **some** Fords, newer GM vehicles and Chrysler 94 and up will have (2) or more accessory wires. To locate these wire(s) probe for wire(s) that only show +12V when the ignition switch is in the **RUN** or **ON** positions. This wire(s) will not show +12V when the ignition switch is in any other position.

1. If your vehicle has only (1) accessory wire connect the **WHITE WITH BLACK STRIPE** wire from the 4-relay harness to this wire.
2. If your vehicle has (2) accessory wires, connect the **WHITE WITH BLACK STRIPE** wire to both.

### STARTER/CRANK WIRE (+12V only in the start position)

The starter/crank wire is also in the main harness. Locate the wire that shows +12V on your test light **only** in the cranking position. This wire will not show +12V in any other position. Attach the **YELLOW WITH BLACK STRIPE** wire from the 4-relay harness to this wire. **SPECIAL NOTE:** Most Nissan's have two crank wires. Connect both crank wires in the vehicle to the **YELLOW WITH BLACK STRIPE** wire from the relay harness.

### CHASSIS GROUND

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 11-pin harness securely as pictured. A good ground is required for your system in order for it to work properly.

Factory Bolt



Spade Connector

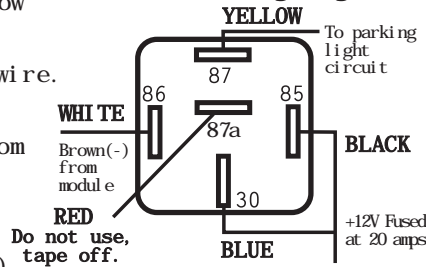
Black Ground Wire

Note: Remove any paint below the spade connector.

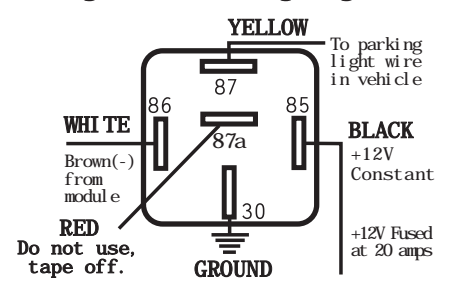
### Parking Light Output (-) (Optional Part #775 required)

Probe the wire(s) coming from your headlamp switch. Find the wire that will show +12V when the parking lights are ON and ground when the lights are OFF. Connect the **YELLOW** wire from Part #775 to this wire. Connect the **BROWN** wire from the 11-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.

#### Positive Parking Lights



#### Negative Parking Lights



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 and positive or neutral when the parking lights are off. 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 - Some vehicles require "key on".

The brake wire is located on the switch near and above the brake pedal. The correct wire will show (+12V) on the test light only when the brake is pressed. Connect the **BLUE WITH BLACK STRIPE** from the 11-pin harness to this wire.

### ANTENNA

For best results, run the antenna (**YELLOW WITH BLACK TIP** in the 11-pin harness) as straight as possible. **Do not place the antenna next to any metal parts or the vehicle's main computer control.**

### FACTORY ALARM SHUT DOWN WIRE (FASD)

If your vehicle is equipped with a factory alarm system (as most vehicles with a factory keyless entry are) and you can disarm your factory alarm by using the key in the door you will need to use the FASD wire. 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 door key. This wire will usually show a positive voltage before turning the key. **NOTE:** Some factory disarm wires remain neutral (shows no voltage) before you turn the key to unlock instead of +12v positive. Connect the **RED WITH BLACK STRIPE** wire from the 11-pin harness to this wire.

### HOOD PIN SWITCH (Mandatory Hookup)

This feature will keep the engine from starting or shut off the engine when the hood is opened when remote started. 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 11-pin harness into the bottom of the hood pin switch.

### TACH INPUT (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 11-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 (For Aftermarket Alarms)

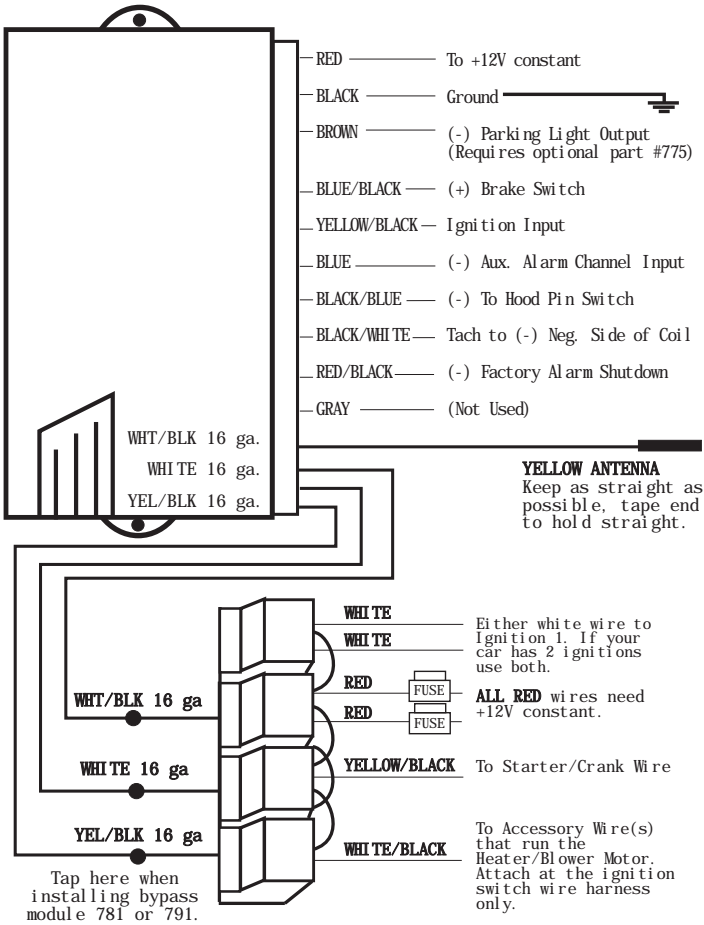
If you use this starter with an aftermarket alarm, connect the **BLUE** wire from the 11-pin harness to the second or third channel output of your existing alarm. When the output is activated, a signal will activate the remote starter.

### AUXILIARY INPUT (For Model RS85 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.

# CONNECTING THE 11-PIN HARNESS & 4-RELAY HARNESS



**CAUTION:** Before connecting the 11-pin harness to the module, double check all connections to be sure they are secure and properly wrapped with electrical tape. Plug the 11-pin harness into the main control module. Connect the 3-pin harness from the 4-relay harness to the module. **NOTE:** The **GRAY** wire in the 11-pin harness will not be used. Wires that are not used are to be taped up, not clipped or removed.

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.

# MODEL RS82 OPERATOR PROGRAMMING INSTRUCTIONS

## Adding Additional Remotes

The hood must be open. Then, press and hold Button #1 on the working transmitter for six (6) 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, the new remote will now work.

## 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 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.

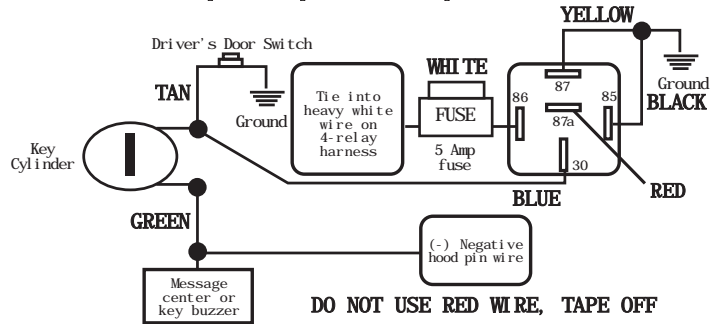
# NEUTRAL SAFETY SWITCH

## MECHANICAL NEUTRAL SAFETY SWITCH

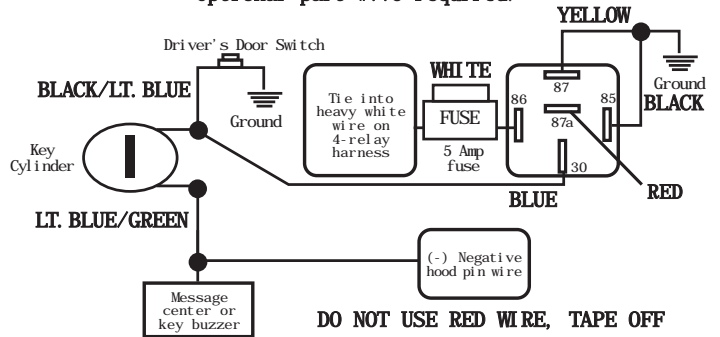
When installing a Bulldog remote starter on GM vehicles or Dodge Dakotas built prior to 1996, you must:

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.



# MODEL RS85 OPERATOR PROGRAMMING INSTRUCTIONS

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## ALL OF THE FUNCTIONS AND PROGRAMMING OF THE RS82, PLUS:

### 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

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 (For Model RS85 Only)

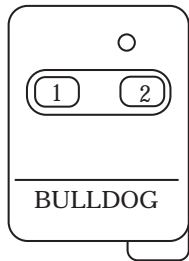
### (For your factory keyless or aftermarket alarm)

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.

## HOW TO USE YOUR REMOTE TRANSMITTER

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**BUTTON #1**  
Remote starts your vehicle from up to 400 feet away.

**BUTTON #2**  
Turns off your remote starter.

### 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.**