Installation Tips for your Excalibur Remote Start (for Honda and Acura Vehicles)

Thank you for purchasing your remote start from MyPushcart.com - an industry leader in providing remote starts to do-it-yourself installers since 1999. We've put this tip sheet together to help you with your installation.   The purpose of this sheet is to help you organize your installation - not to replace your installation manual. You will still need to refer to that.

If you provided us with your vehicle model/year at the time of purchase, you will have a wiring chart for your particular vehicle.   We're going to refer to that a lot.   If you do not have the wiring chart, email us at sales@mypushcart.com so we can send you a copy.   Be sure to include the model/year of your vehicle, your name and your sales order number.

Two very important things before you get started:
- Read the entire installation manual. There are several safety tips in there that you need to know before you start
- Avoid using a test light to probe wires.   Test lights can set off air bags if you probe the wrong wire.   Your vehicle wiring chart will identify the correct wires that you'll be tapping on to in your car.   If you must probe, use a digital multi-meter. They're inexpensive and won't set off air bags.

Overview

There are 4 basic steps to this remote start installation. We're going to address each of these:
1. Make your wiring connections for the remote start
2. Test the system
3. Program the bypass
4. Button it up!

❷ Need to know where all the components go? See Installer's Tip #1 on page 5

Step 1 – Wiring

When you open up your remote start, you're going to see a whole bunch of wires.   You're not going to use all of them. The remote starts are designed with wiring options for a variety of cars and no car is going to use all of them.   We're going to break the wiring down into three parts – your main power connections, what we'll call your 'secondary' connections for your remote start, and connections for the bypass module (if you're using one).

Here's where the vehicle wiring chart comes into play.   The wiring chart will help you locate the wires that you're going to need in your car.   Don't be intimidated by all the different wires listed on the chart – you're only going to be using a few of them. Your wiring chart will come from Crimestopper.

Reading your wiring chart

Each line of the wiring chart contains 3 pieces of information that you will need (continued on next page):

- The "Circuit" or "Wire/Function"
- The color of the wire in the car

- The location of the wire in the car

The illustrations below will show you where to find that information on your chart.

Making your wiring connections

The tables on the next 2 pages show you where to connect the wires from your remote start into the car. Any wires on your remote start that are NOT listed in the table are NOT USED.

Helpful Hint: In most cases, the wires on the remote start are way longer than needed.   Trim off excess wire when you make your connections, but leave some slack - this will allow you a little flexibility when it comes time to stow the remote start module after the installation is completed.   See Installer's Tip # 2 on Page 5 for tips on how to make your wiring connections

For EXCALIBUR Remote Starts

| Remote Start Wire		Connect to the wire for the circuit on the vehicle chart labeled:
Red/White (6-pin harness)		Constant 12 Volts
Red (6-pin harness)		Constant 12 Volts
Pink/White (6-pin harness)		Ignition 12-Volts
Violet (6-pin harness)		Starter
Orange (6-pin harness)		Accessory
Pink (6-pin harness)		Ignition # 2 (not present on all vehicles)
Blue (3-pin harness)		Unlock wire
Green (3-pin harness)		Lock wire
White/Black (12-pin harness)		Parking Lamp (IMPORTANT – SEE NOTE 1)
White (12-pin harness)		Parking Lamp (IMPORTANT – SEE NOTE 1)
Black (12-pin harness)		System Ground – connect this to a solid metal ground in the car
Brown/Red (12-pin harness)		Brake Light (also called "Brake Switch")
Black/White (12-pin harness)		Neutral Safety – if you have an automatic transmission, ground this wire
Grey (12-pin harness)		Hood Input (See NOTE 2)
		The connections below MAY be needed
Light Green/Red (12-pin harness)		OEM Alarm Disarm – *connect this if your car has a factory alarm system*
Violet/White (12-pin harness)		Tach Signal (See NOTE 3)

- **NOTE 1** The remote start has two parking light wires. _You will only use one of them_. On your vehicle wiring chart, look up the wire for the parking lights. Next to the wire color will be either a "+" or a "-". If yours has the "+", then use the white wire. If it has a "-", use the white/black wire.
- **NOTE 2** The grey wire is used with a pin switch (included in your kit) to prohibit the remote start from activating while the hood is open. This is an important safety feature!
- **NOTE 3** Most vehicles will not require this connection. The remote start has a 'tach sensing' circuit built in. The purpose of that circuit (or the tach wire if you need it) is to enable the remote start to detect when the engine has started so it will stop cranking the starter. When you test your system, if the starter keeps cranking after the engine has started, you'll need to connect the tach wire. Once the wire is connected, take two additional steps: 1) Change "Installer Programming Option # 2 to the 'tach wire' setting (see page 11 in the installer's manual). 2) Program the tach circuit as shown on page 10 of the installation manual.

Your kit also includes a programming button. Plug the button into the remote start. For tips on where to install the button, see Installer's Tip #1 on Page 5.

TRUNK RELEASE NOTE: If your vehicle has a positive trigger (+) trunk release, we have included a relay with your kit. Refer to the following diagram for instructions on how to connect the relay that will enable your remote trunk pop feature.

If you see a (-) next to trunk release on your wiring diagram, you will not need the relay and can connect the aux output wire from the remote start directly to the trunk release wire in the vehicle.

If there is no data for trunk release in your wiring chart, then you have a manual pull-cable release that cannot be controlled by the remote start.
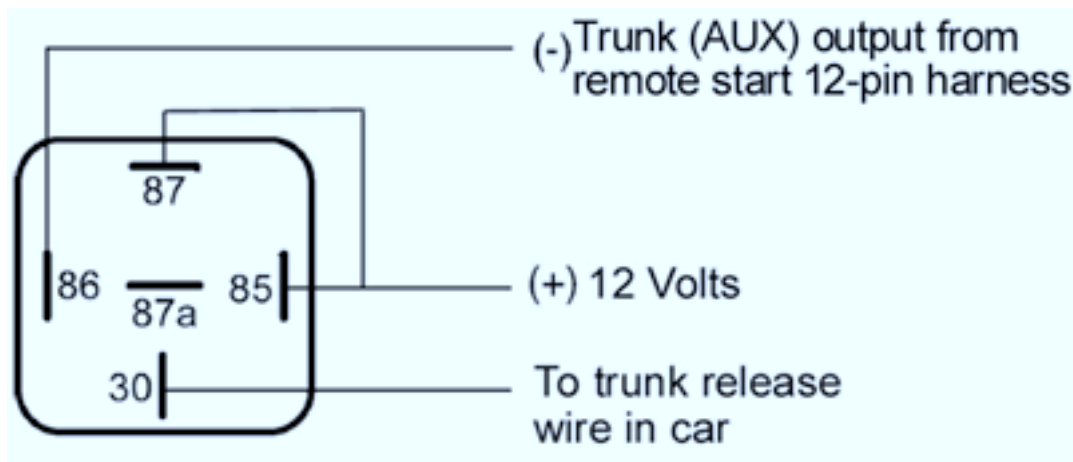
NOTE: the 12V source can be taken from the red wire on the 12 pin harness. Pin 87a on the relay is not used. Cut and cap that wire.

Installing your bypass

The IBH34 bypass connections will vary depending on the specific model Honda/Acura.   Refer to the installation instructions for the IBH34 that are included at the end of this document . There you will be able to see which wiring configuration is used for your car.

Here are some tips that are applicable regardless of which configuration you use:
- The red plug on the end of the brown wire gets plugged in to the 'Sat Relay Port' of your remote start.   This is how the remote start activates the bypass when it is needed.
- The Red wire gets connected to a constant +12v power source. You can tap it directly on to the large red wire in the remote start's 6-pin harness.
- The Black wire goes to ground

Suggestion: If possible, avoid using tap connectors on the Data wires coming off the key lock cylinder connector.   The wires are small and sometimes a tap connector won't make good contact.   We suggest you either wrap and tape or solder and tape these connections. See Installer's Tip #2 on page 5.

Step 2 – Program the Bypass

Instructions for programming your bypass are in the IBH34 installation manual. Programming is easy and only takes a few seconds.   You will need to have one valid key for programming.

Step 3 – Test the System

Once all your connections are made and the bypass is programmed, you should test the system before putting everything back together.

1. Remove your keys, then close the doors
2. Press the 'lock' and 'unlock' buttons on the new remote fob.   Make sure they control your door locks accordingly.
3. If you have connected the remote trunk pop feature, make sure that functions properly.
4. Press the 'start' button on the remote start's keyfob.   This should start the car.   Pressing the 'start' button again should shut it down.
5. Start the car again, then open the door and step on the brake pedal.   That should shut the car downagaon.

Step 4 – Close it Up!

Once the bypass has been programmed, give the system one final test.

Now gather up all your wiring and neatly bundle it together using zip ties or electrical tape. Find a secure place to put the remote start module and use zip ties to secure it.   **Make sure that the remote start wires are not near any moving parts on the steering wheel, pedals or emergency brake!**

Installer's Tips

Tip #1 – Where Everything Goes
There are 4 parts to your system:
1. *Remote start module* – the wiring for the module is done under the dash on the driver's side, so you'll want to install the module in that general area.   Before you start wiring, look for a location where there's some open space that will fit the module. Pay attention to moving parts like the pedals, e-brake and steering column.   Be sure to route your wiring away from those areas.
2. *Bypass module* – can be stowed along with the remote start.
3. *Programming button* – Requires a small screw hole.   Usually put in the driver's kick panel (that's the area forward of the door), the driver's side of the center console, or the underside of the dash.
4. *Hood Pin Switch* – An important safety component!   Requires a 3/8" hole.   Find a location in the engine compartment to mount the switch where the closed hood will keep the plunger in the switch depressed. This is what prevents the car from starting when the hood is open.

Tip #2 – How to make your wiring connections

It's very important that all your wiring connections be solid and secure.   All remote start connections are "tap on" connections. This means that you do not need to cut the wires in the car. You simply need to "tap on" to the wires in the car to make your connections.   Here are three different ways to do this:

Method 1 – Solder and tape

This is the method preferred by the best professional installers.   It makes for the most reliable connections, but it is also the most difficult to do.   Sometimes there isn't enough room in the wiring harness to safely solder a wire without damaging adjacent wires, but if you have the soldering skills, go for it.   To make a connection, strip back a section of the insulation on the wire in the car. On heavy gauge wires, 1" is about the right amount.   On lighter gauge wires, ½" is fine. Strip 1" of insulation off the end of the remote start wire.   Tin the bare section of wire in the car. Wrap the remote start wire around the tinned section and then carefully solder it in place.   Wrap the splice tightly with electrical tape.

Method 2 – Wrap and tape

This is the most popular method and is also very reliable.   Strip back a section of the insulation on the wire in the car. On heavy gauge wires, 1" is about the right amount.   On lighter gauge wires, ½" is fine. Strip 1" of insulation off the end of the remote start wire.   Separate the strands of the wire like this:

Pass the wire from the remote through the opening as shown below

Wrap the remote start wire around both sides of the car wire, then back around itself as shown below
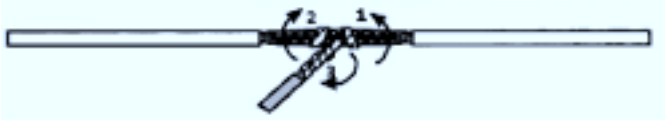
Use electrical tape to wrap the connection and secure the wires together.   A wire tie will help prevent the tape from unraveling in the future.

Method #3 – "T-Taps"

T-taps are plastic clips that are squeezed onto the wires in the car.   The wire from the remote start goes into the tap and the whole thing is crimped together.   T-taps come in different sizes for different size wires. Use yellow t-taps for the larger wires in your main power harness.   Red t-taps are good for the smaller wires.   Tape and wire tie the connections as shown in the "wrap and tape" section above – that will prevent the t-taps from ever opening up.

We now have a "tap kit" available for purchase for those who prefer to use this method. The kit consists of two types of connectors -   The taps and insulated male spade connectors that plug into them. The taps attach to the wires in the car and the spade connectors attach to the wires on the remote start.   The spades then plug in to the taps.   A crimping tool is required.

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Please email to sales@mypushcart.com

XPRESSKIT™

PK — transponder BYPASS
DL — doorlock INTERFACE
DLPK — combo DOORLOCK & TRANSPONDER BYPASS
KI — key interface

ACURA

HONDA

MODEL: PKH34
HONDA / ACURA TRANSPONDER DATA OVERRIDE INTERFACE (NO KEY REQUIRED)

INSTALLATION GUIDE

PRODUCT DESCRIPTION

PKH34 is a fixed Honda and Acura Transponder Data Override Interface solution that works on all 2005-09 Honda and Acura vehicles, including select 2001-2004 models. 100% compatible with any remote start system, PKH34 is also the first BYPASSKIT fixed firmware solution to add an enhanced data security override activation port (D2D). The D2D activation port takes the PKH34 BYPASSKIT to another level of enhanced security when paired with any remote start system using the D2D communication protocol. D2D (data to data) is the same communication protocol used with the XPRESSKIT line of programmable vehicle modules, however in the case of the PKH34 the data port is used solely as secure data activation input when paired with a similarly equipped D2D remote start system. Security of the override module is enhanced by disabling all analogue inputs whenever the module detects communication with a D2D enabled remote start system. This prevents the override feature from being activated by any other method other than the remote start system.

PRODUCT FEATURES
- Enhanced D2D functionality provides a secure single wire data override
- Compatible with any remote car starter
- Compatible with manufacturer's anti-theft & security system
- Maintains integrity of manufacturer's anti-theft immobilizer system
- Compact design, easy to mount
- No Key Required for operation (NKR)
- Simple programming
- All temperature operation
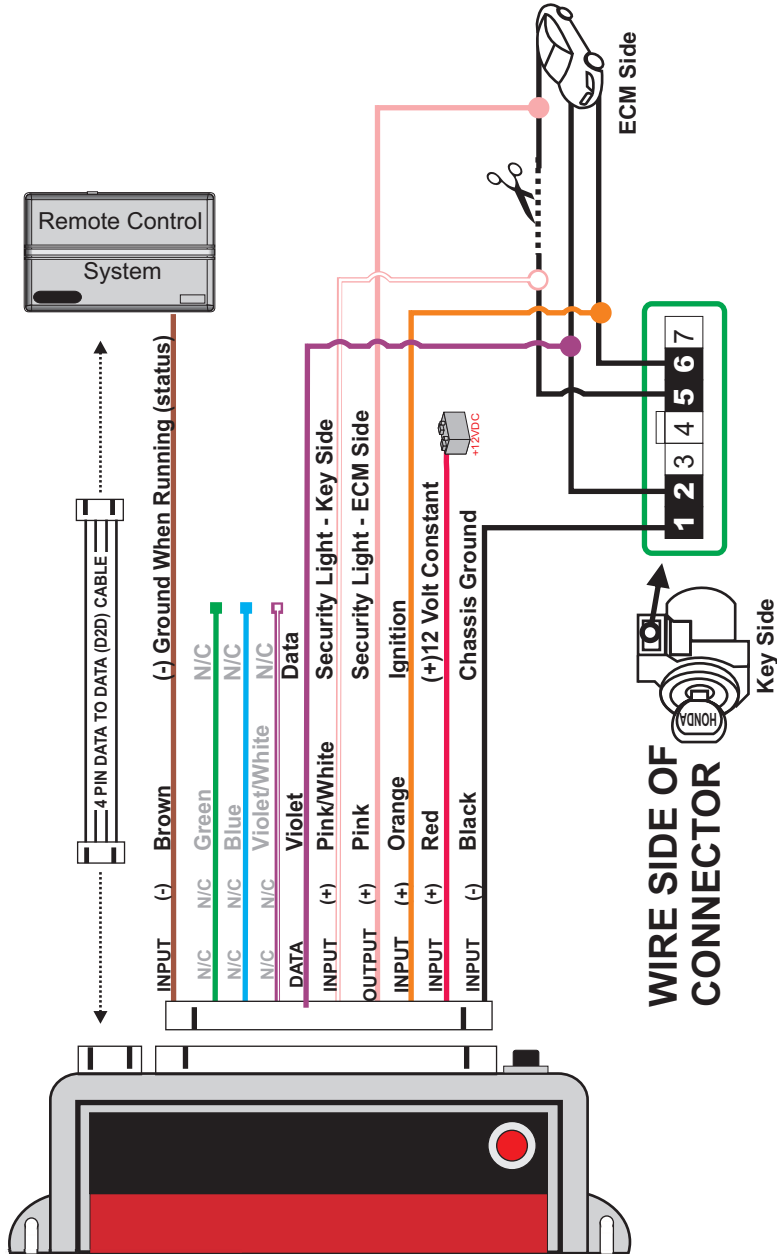
XPRESSKIT™
Full 2-Way D2D Compatible
VIPER CLIFFORD PYTHON AUTOSTART AVITAL

Directed ELECTRONICS, INC.

INSTALL "A": Honda & Acura Type "C"
Transponder Data Override Interface

ECM Side

Remote Control System

Key Side

WIRE SIDE OF CONNECTOR

HONDA

1 2 3 4 5 6 7

+12VDC

4 PIN DATA TO DATA (D2D) CABLE

Section A

Wire		Function
Brown	(−) INPUT	(−) Ground When Running (status)
Green	N/C N/C	N/C
Blue	N/C N/C	N/C
Violet/White	N/C N/C	N/C
Violet	DATA	Data
Pink/White	(+) INPUT	Security Light - Key Side
Pink	(+) OUTPUT	Security Light - ECM Side
Orange	(+) INPUT	Ignition
Red	(+) INPUT	(+)12 Volt Constant
Black	(−) INPUT	Chassis Ground

XPRESSKIT

Section B

INSTALL "A": WIRE GUIDE: CONNECTIONS

10 PIN HARNESS → **D2D =** Optional use of 4 Pin Data to Data (D2D) cable will replace the analogue wire (w2w) connection

PIN#	WIRE COLOR	D2D w2w	I/O STATUS	(-) /(+)	Connect Location	SPECIFIC WIRE CONNECTION LOCATION	ACTIVATION and/or FUNCTIONALITY
1	Brown	D2D w2w	Input	(-)	RCS	Ground When Running (status) Output of RCS	Immobilizer Bypass Via Data
2	Green	N/C	N/C	N/C	N/C	N/C	N/C
3	Blue	N/C	N/C	N/C	N/C	N/C	N/C
4	Violet/White	N/C	N/C	N/C	N/C	N/C	N/C
5	Violet	w2w	Data		Vehicle	Connect to vehicle Data wire PIN 2 **See Vehicle Wiring Reference Chart for wire colors**	Data Commands from Module to Vehicle
6	Pink/White	w2w	Input	(+)	Vehicle	Connect to vehicle security light wire PIN 5 (Key Side) **(See Vehicle Wiring Reference Chart for wire colors)**	Security Light Power Source Return
7	Pink	w2w	Output	(+)	Vehicle	Connect to vehicle security light wire PIN 5 (ECM Side) **(See Vehicle Wiring Reference Chart for wire colors)**	Security Light Power Source Supply
8	Orange	w2w	Input	(+)	Vehicle	Ignition Input Source	Ignition Input Source
9	Red	D2D w2w	Input	(+)	Vehicle	Constant (+) 12 Volt Source	Power Source
10	Black	D2D w2w	Input	(-)	Vehicle	Chassis Ground	Ground Source

Legend   RCS = Remote Control System   N/C = No Connection   N/A = Not Applicable   W2W= analogue wire to wire   D2D= data 2 data

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INSTALL "A": VEHICLE WIRING REFERENCE CHART

VEHICLE	DATA	IGNITION	GROUND	SECURITY LIGHT
Acura EL 1.7 2001-2005	Red/Blue Pos.#2	Yellow/Black Pos.#6	Brown/ Yellow Pos.#1	Blue/Orange Pos.#5
Acura MDX 2003-2006	Red Pos.#2	Green/White Pos.#6	Brown/ Yellow Pos.#1	Blue/Orange Pos.#5
Acura RSX 2002-2006	Red/Blue Pos.#2	Yellow/Black Pos.#6	Brown/ Yellow Pos.#1	Blue/Orange Pos.#5
Acura TSX 2003-2008	Red/Blue Pos.#2	Black/Yellow Pos.#6	Brown/ Yellow Pos.#1	Blue/Orange Pos.#5
Acura TL 2004-2008	Red/Blue Pos.#2	Blue/Black Pos.#6	Brown/ Yellow Pos.#1	Blue/Orange Pos.#5
Honda Accord 2003-2007	Red/Blue Pos.#2	Black/Yellow Pos.#6	Brown/ Yellow Pos.#1	Blue/Orange Pos.#5
Honda Civic 2001-2005	Red/Blue Pos.#2	Yellow/Black Pos.#6	Brown/ Yellow Pos.#1	Blue/Orange Pos.#5
Honda CRV 2003-2006	White Pos.#2	Yellow/Black Pos.#6	Brown/ Yellow Pos.#1	Blue/Orange Pos.#5
Honda Element 2003-2007	White Pos.#2	Black/Yellow Pos.#6	Brown/ Yellow Pos.#1	Blue/Orange Pos.#5
Honda Pilot 2005-2008	Red/Green Pos.#2	Red/White Pos.#6	Brown/ Yellow Pos.#1	Blue/Orange Pos.#5
Honda Odyssey 2005-2009	Red/Blue Pos.#2	Black/Yellow Pos.#6	Black Pos.#1	Blue/Orange Pos.#5
Honda Ridgeline 2006-2009	Red/Blue Pos.#2	Green/Black Pos.#6	Brown/ Yellow Pos.#1	Blue/Orange Pos.#5
Honda Fit 2007-2008	Light Green/Black Pos.#2	Black/Yellow Pos.#6	Brown/ Yellow Pos.#1	Red/Black Pos.#5

INSTALLATION NOTES:
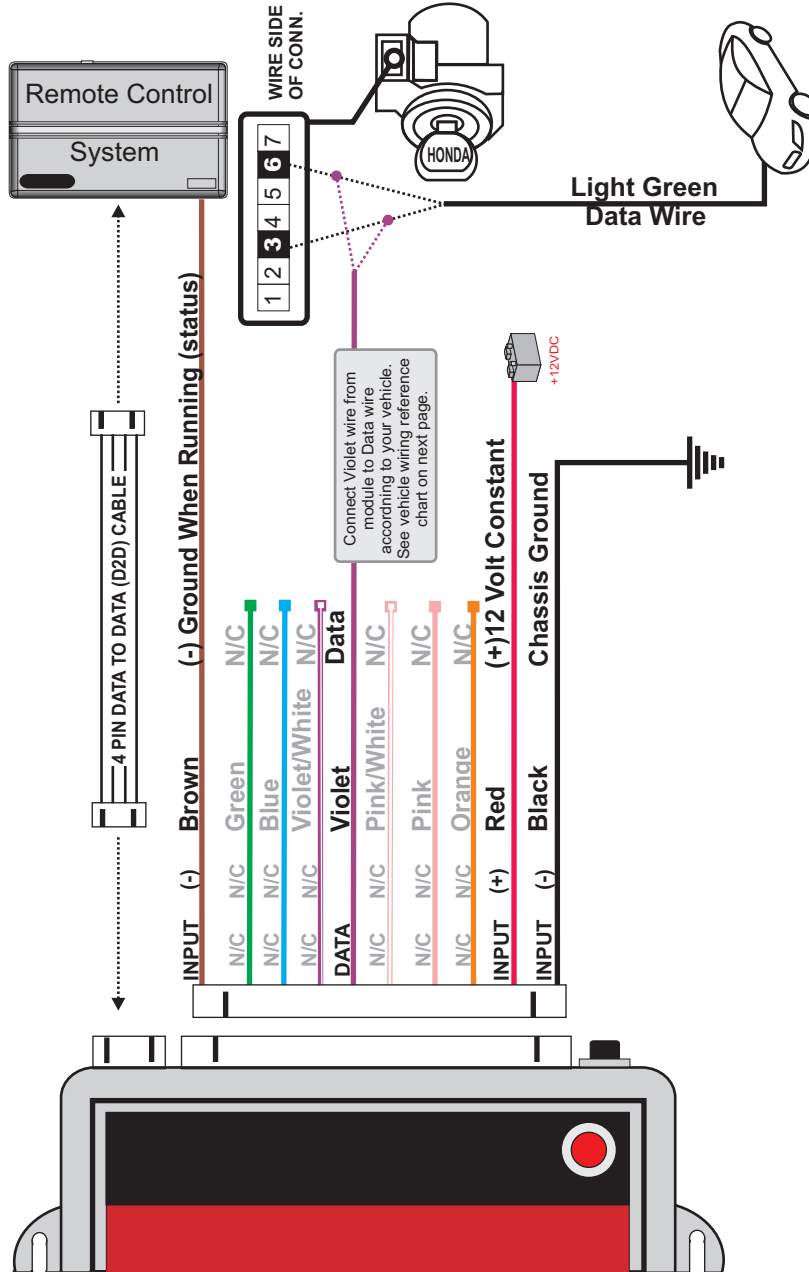
Honda Accord: Connector in vehicle is **WHITE**.

INSTALL "A": VEHICLE PROGRAMMING

1) Once module has been properly connected, press and hold programming button.
2) Turn the ignition key to ON position, LED should blink.
3) Release programming button, module is now programmed.

*To RESET, press and hold the programming button while you connect the unit. LED comes on. When LED goes off, release button.

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INSTALL "B": Honda & Acura Type "D"
Transponder Data Override Interface

Remote Control

System

WIRE SIDE OF CONN.

1 2 3 4 5 6 7

HONDA

Light Green Data Wire

Connect Violet wire from module to Data wire according to your vehicle. See vehicle wiring reference chart on next page.

+12VDC

Section A
See Wire Connection Guide for detailed information regarding wire functionality

4 PIN DATA TO DATA (D2D) CABLE

	Wire	Function
INPUT (-)	**Brown**	**(-) Ground When Running (status)**
N/C	Green	N/C
N/C	Blue	N/C
N/C	Violet/White	N/C
DATA	**Violet**	**Data**
N/C	Pink/White	N/C
N/C	Pink	N/C
N/C	Orange	N/C
INPUT (+)	**Red**	**(+)12 Volt Constant**
INPUT (-)	**Black**	**Chassis Ground**

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Section B

INSTALL "B": WIRE GUIDE: CONNECTIONS

10 PIN HARNESS — D2D = Optional use of 4 Pin Data to Data (D2D) cable will replace the analogue wire (w2w) connection

PIN#	WIRE COLOR	D2D w2w	I/O STATUS	(-)/(+)	Connect Location	SPECIFIC WIRE CONNECTION LOCATION	ACTIVATION and/or FUNCTIONALITY
1	Brown	D2D w2w	Input	(-)	RCS	Ground When Running (status) Output of RCS	Immobilizer Bypass Via Data
2	Green	N/C	N/C	N/C	N/C	N/C	N/C
3	Blue	N/C	N/C	N/C	N/C	N/C	N/C
4	Violet/White	N/C	N/C	N/C	N/C	N/C	N/C
5	Violet	w2w	Data		Vehicle	Connect to Light Green Data Wire PIN 3 or 6 of the White 7 PIN connector located on key cylinder.	Data Commands from Module to Vehicle
6	Pink/White	N/C	N/C	N/C	N/C	N/C	N/C
7	Pink	N/C	N/C	N/C	N/C	N/C	N/C
8	Orange	N/C	N/C	N/C	N/C	N/C	N/C
9	Red	D2D w2w	Input	(+)	Vehicle	Constant (+) 12 Volt Source	Power Source
10	Black	D2D w2w	Input	(-)	Vehicle	Chassis Ground	Ground Source

Legend   RCS = Remote Control System   N/C = No Connection   N/A = Not Applicable   W2W= analogue wire to wire   D2D= data 2 data

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INSTALL "B": VEHICLE WIRING REFERENCE CHART

VEHICLE	DATA
Acura CSX **2006-2009**	Light Green Pos.#3
Acura MDX **2007-2009**	Light Green Pos.#3
Acura RDX **2007-2009**	Light Green Pos.#3
Acura TL **2009**	Light Green Pos.#6
Acura TSX **2007-2009**	Light Green Pos.#6
Honda Accord **2008-2009**	Light Green Pos.#6
Honda Civic **2006-2009**	Light Green Pos.#3
Honda CRV **2007-2009**	Light Green Pos.#3
Honda Fit **2009**	Light Green Pos.#3
Honda Pilot **2009**	Light Green Pos.#3
Honda Pilot **2010-2011**	Pink Pos.#6

INSTALL "B": VEHICLE PROGRAMMING

1) Once module has been properly connected, turn key to **IGNITION** position, LED goes on.
2) After LED turns **OFF,** module is now programmed.

*To RESET, press and hold button and plug in module. LED comes on.
When LED goes off, release button.

LIMITED ONE-YEAR CONSUMER WARRANTY

For a period of ONE YEAR from the date of purchase of a Directed Electronics remote start or security product, Directed Electronics. ("DIRECTED") promises to the original purchaser, to repair or replace with a comparable reconditioned piece, the security or remote start accessory piece (hereinafter the "Part"), which proves to be defective in workmanship or material under normal use, provided the following conditions are met: the Part was purchased from an authorized DIRECTED dealer; and the Part is returned to DIRECTED, postage prepaid, along with a clear, legible copy of the receipt or bill of sale bearing the following information: consumer's name, address, telephone number, the authorized licensed dealer's name and complete product and Part description.

This warranty is nontransferable and is automatically void if the Part has been modified or used in a manner contrary to its intended purpose or the Part has been damaged by accident, unreasonable use, neglect, improper service, installation or other causes not arising out of defect in materials or construction.

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This Interface kit / Data Bus Interface part has been tested on the listed vehicles. Other vehicles will be added to the select vehicle list upon completion of compatibility testing. Visit website for latest vehicle application guide. <u>DISCLAIMER</u>: Under no circumstances shall the manufacturer or the distributors of the bypass kit / data bus interface part(s) be held liable for any consequential damages sustained in connection with the part(s) installation. The manufacturer and it's distributors will not, nor will they authorize any representative or any other individual to assume obligation or liability in relation to the interface kit / data bus interface part(s) other than its replacement. N.B.:Under no circumstances shall the manufacturer and distributors of this product be liable for consequential damages sustained in connection with this product and neither assumes nor authorizes any representative or other person to assume for it any obligation or liability other than the replacement of this product only.

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