

Installation Tips for your RS-251 + Honda-SL3 (1.a) Remote starter T0777 v1.3 4/10/14

Honda: ('03-'07 Accord),('01-'05 Civic),('02-'06 CRV),('03-'10 Element),('05-'10 Odyssey)

Acura: ('01-'03 EL),('02-'06 RSX),('04-'12 TL),('03-'08 TSX)

- ✚ 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, there are several safety tips in there that you need to know before you start. 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.
- ✓ 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, verify each using 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. Wiring
2. Programming
3. Test the system
4. Close it up!

- ❓ 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 only the needed wires you need from the remote starter. 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.

Reading your wiring chart

Each line of the wiring chart contains 3 pieces of information that you will need:

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

Wire function	Wire color in vehicle	Wire location in vehicle
Ignition 12 volts	BLUE/GREEN	IGNITION SWITCH HARNESS
Starter	RED/BLUE	IGNITION SWITCH HARNESS
Dome Light	BLACK/BLUE (+)	DRIVER KICK PANEL

Step 1 – Wiring

RS-251 remote starter wiring:

- The following table shows you the necessary wires to connect from the remote starter and what they connect to. Any wires on your remote start that are NOT listed in the table are NOT USED.

Remote Start Wire:	Connect to:	Found:	Color:
Red (6-pin harness)	Constant 12v (+)	Vehicle ignition harness	WHITE
Red/White (6-pin harness)	Constant 12v (+)	Vehicle ignition harness	WHITE
Pink (6-pin harness)	Ignition	Vehicle ignition harness	BLACK/YELLOW
Pink/White (6-pin harness)	*Ignition # 2, or accessory #2* (not present on all vehicles)	Vehicle ignition harness	(refer to your vehicle wiring chart)
Violet (6-pin harness)	starter	Vehicle ignition harness	BLACK/WHITE
Orange (6-pin harness)	Accessory	Vehicle ignition harness	BLACK/RED
White (14-pin harness)	positive (+) Parking Light wire ❗ The remote start has two parking light wires. <u>You will only use this one.</u>	At fuse box, Or drivers kick panel	Red/Black *This wire is RED/yellow for the Acura EL*
Black (14-pin harness)	System Ground	(solid metal in vehicle)	n/a
Black/White (14-pin harness)	Neutral Safety (If you have an automatic transmission, ground this wire)	(solid metal in vehicle)	n/a
Brown/Red (14-pin harness)	Brake switch	Above brake pedal	White/Black *this wire is RED/YELLOW for the Acura RSX*
Grey (14-pin harness)	Hood pin (included) (See installers tip #1 on page 7 of this tip sheet for more info) ❗ To prohibit the remote start from activating while the hood is open. *This is an important safety feature!*	Under hood	n/a
BLUE (3-pin RED plug)	HONDA-SL3 (-) when running	8-pin plug	BLUE
BLUE (3-pin BROWN plug)	Door Unlock	Driver's Kick Panel	Typically White/Green (refer to your vehicle wiring chart)
GREEN (3-pin BROWN plug)	Door Lock	Driver's Kick Panel	Typically White/Blue (refer to your vehicle wiring chart)
<i>The connections below MAY be needed</i>			
Light Green/Red (14-pin harness)	*OEM Alarm Disarm wire of vehicle* ❗ Use only if your car has a factory alarm system that gets tripped when you attempt to	Typically found at switch assembly inside driver door (refer to your vehicle	Typically WHITE (refer to your vehicle wiring chart)

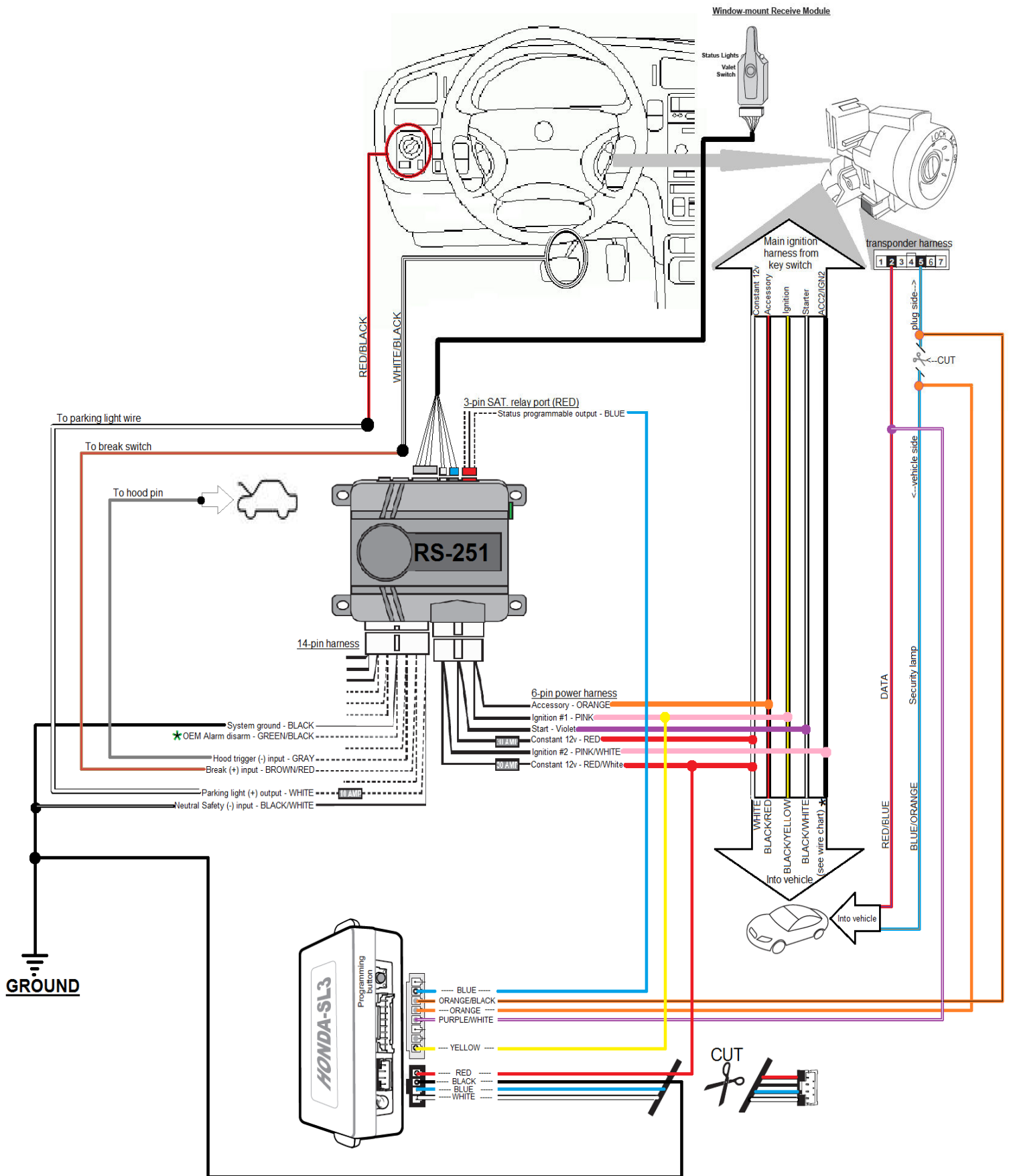
- Before proceeding, plug the antenna/programming button/LED into the remote start.

HONDA-SL3 bypass module wiring:

- Plug the 4 pin data cable into the HONDA-SL3 data port and cut off the plug(s) on the other side (you will need to use the red and black wires, the blue and white wires will **NOT** be used).
- The following table shows you the necessary wires to connect from the bypass module and what they connect to. Any wires on your module that are NOT listed in the table are NOT USED.

Bypass wire:	Connect to:	Color/Location
8-PIN PLUG		
BLUE	(-) status programmable output	BLUE (3-pin red SAT. relay plug of RS-251)
ORANGE/BLACK	Plug side of cut security lamp wire (see diagram)	BLUE/ORANGE (pin-5 of 7-pin transponder plug) *This wire is ORANGE for the Acura: TL*
ORANGE	Vehicle side of cut security lamp wire (see diagram)	BLUE/ORANGE (pin-5 of 7-pin transponder plug) *This wire is ORANGE for the Acura: TL*
PURPLE/WHITE	Vehicle DATA wire <ul style="list-style-type: none"> ■ Suggestion: Don't use tap connectors on the Data wire coming off the key switch connector. We suggest you either wrap and tape or solder and tape these connections. See Installer's Tip #2. 	RED/BLUE (pin-2 of 7-pin transponder plug) *This wire is WHITE for Honda: CRV and Element* *This wire is yellow for Acura: TL*
YELLOW	Ignition	PINK (6-pin plug of RS-251)
4-PIN DATA PLUG		
RED	Constant 12v (+)	RED (6-pin plug of RS-251)
BLACK	Ground	(solid metal in vehicle)

- The following diagram illustrates all of your needed connections. As always, it is the responsibility of the installer to verify all vehicle wiring using the vehicle wiring chart and a multi-meter:



Step 2 – Programming

The RS-251 remote starter should work with its default options as they are, so no programming is required for remote start operation. If you wish to change options to customize the functionality of the remote starter, a matrix of all programmable features and their options are below. For detailed information on each feature, please refer to the operation manual. Use the procedure below to make any necessary changes:

Step 1 Turn the ignition key “ON”, then “OFF”

Step 2 Within 5 seconds of step 1, press the valet switch 5 times to access user features (10 times to access installer features).

~ The parking lights and the status light (optional) will turn on.

Step 3 Within 10 seconds of step 2, press the valet switch the number of times corresponding with the desired feature’s number.

~ The status light (optional) and the parking lights will flash equal to the selected feature.

Step 4 Change the feature by pressing the brake pedal the same number of times that corresponds with the desired setting.

~ The status light (optional) and the parking lights will flash equal to the selected setting.

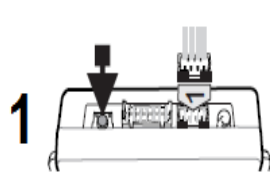

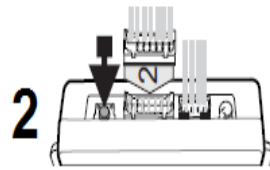
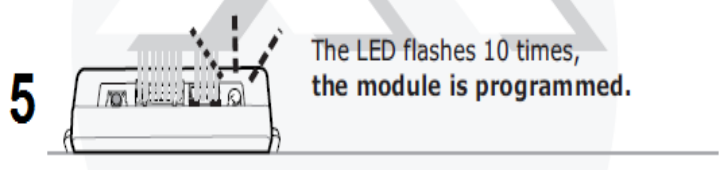

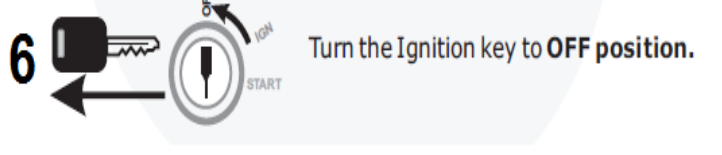
Step 5 If you wish to change more features, repeat steps 3 & 4 at this time.

Step 6 To exit programming, turn the ignition key “ON” then “OFF”. Or, you can wait 10 seconds for programming mode to expire. The lights will turn off.

User Feature Programming: Ignition on, off, press valet 5 times				
# Feature	Brake Pedal x 1	Brake Pedal x 2	Brake Pedal x 3	Brake Pedal x 4
1 Engine Run Time	10	5	15	20
2 RS Light Confirmation	Steady	Flashing		
Installer Feature Programming: Ignition on, off, press valet 10 times				
1 Remote Start Activation	1 press	2 presses	3 presses	4 presses
2 PINK/WHITE Wire Function	Ignition	Accessory	Start	
3 Engine Detection	Tachless Hi	Tachless Lo	Tach Wire	Datatach
	Crank Only (Brake Pedal x 5)			
4 Gas or Diesel Engine	Gas	Diesel (15 sec.)	Diesel (20 sec.)	Diesel (30 sec.)
5 Sat. Port Green Wire Function	Start	Pulse after start	Status	Dome Light
6 Sat. Port Blue Wire Function	Status	Ignition		
7 Crank Time	0.7 sec	1 sec	1.5 sec	2.25 sec
8 Door unlock output	0.8 sec	3 sec	Double Unlock	
9 Remote Start Unlock Control	Off	N/A	Unlock before start	
10 Turbo Timer	Off	1 min	2 min	3 min
11 N/A				
12 Data Port Protocol	D2D (Trilogix)	ADS (iData)		

HONDA-SL3 bypass module programming:

Once you have successfully made your connections, you'll want to program the bypass to sync it up with the vehicle. Perform the following steps to program your bypass module:

 <p>1</p>	<p>Press and hold the programming button. Insert connector 1 into the HONDA-SL3 interface.</p>	 <p>4 Turn the Ignition to the ON position.</p>
 <p>2</p>	<p>Insert connector 2 into the HONDA-SL3 interface.</p>	 <p>5 The LED flashes 10 times, the module is programmed.</p>
 <p>3</p>	<p>Release the programming button when the LED turns ON.</p>	 <p>6 Turn the Ignition key to OFF position.</p>

Step 3 - Test the System

Once all programming is done, you should test the system to make sure everything is working properly before you connect the activation wire and close up the installation.

1. With the key removed from the ignition, press the start button on your remote.
 - Parking lights and gauges should power up and in a moment, the vehicle should start.
2. Make sure the vehicle stays running, and that the climate controls are working.
3. Press the brake pedal.
 - The engine should shut down.
4. If your test is successful proceed to "step 4 - close it up" below.
 - If your test was unsuccessful, go back and re-check your wiring and programming.

Step 4 – close it up

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

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 ¼" 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.
5. *Status LED* – Not required for normal operation but can be helpful for troubleshooting. Can be mounted anywhere you like – or unplugged and not used once the installation is completed.
6. *Activation relay* – can be stowed along with the remote start.

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

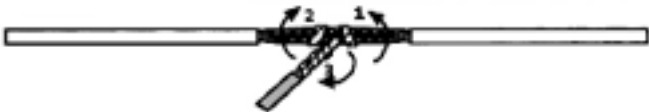
This is the most popular method and is also very reliable. Strip back a section of the insulation on the wire in the car. On heavy gauge wires, 1" is about the right amount. On lighter gauge wires, ½" is fine. Strip 1" of insulation off the end of the remote start wire. Separate the strands of the wire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

Using T-Taps

Use a pair of pliers to attach the quick-connects to the wires in your car. Hold the quick connect as shown below in Figure 1, then clamp it on to the wire as shown in Figure 2. There is a locking tab at the front of the connector (Figure 3) – make sure it is secure and locked in place when you are done.



Figure 1



Figure 2



Figure 3