

Installation Tips for your RS-360 + OL-MDB-CH6 (1) (for Jeep vehicles) T1227 v1.0 3/19/14

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 3 basic steps to this remote start installation. We're going to address each of these:

1. Make your remote start and bypass wiring connections
2. Program the bypass
3. Test the system and button 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 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 - Making your remote start and bypass wiring connections:

The following table shows 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.

Remote Start Wire:	Connect to the wire for the circuit on the vehicle chart labeled:
Red (6-pin harness)	Constant 12 Volts
Red/White (6-pin harness)	Constant 12 Volts
Pink (6-pin harness)	Ignition 12-Volts
Pink/White (6-pin harness)	Ignition # 2 (not present on all vehicles)
Violet (6-pin harness)	Starter
Orange (6-pin harness)	Accessory
White (12-pin harness)	(+) Parking Lamp (IMPORTANT - See NOTE 1)
White/Black (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
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)

- **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!

-Before proceeding, plug the antenna/programming button/LED into the remote start. See Installer’s Tip #1

-Plug the 4 pin data link connector into the data port of the bypass and the black data port of the RS-360.




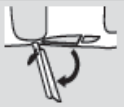
Bypass wire:	Connect to:	(See Page 3 for location and diagram)
White/Black	Key side of cut immobilizer ignition wire	(pin-4 immobilizer plug)
White/Red	Vehicle side of cut immobilizer ignition wire	(pin-4 immobilizer plug)
Pink	Vehicle side of cut immobilizer ignition wire	(pin-4 immobilizer plug)
Orange	Immobilizer DATA wire	(pin-2 immobilizer plug)

The following connection is needed only if your vehicle is equipped with factory security

Orange/Black	Ground	(SEE detect OEM alarm equipped vehicles section)
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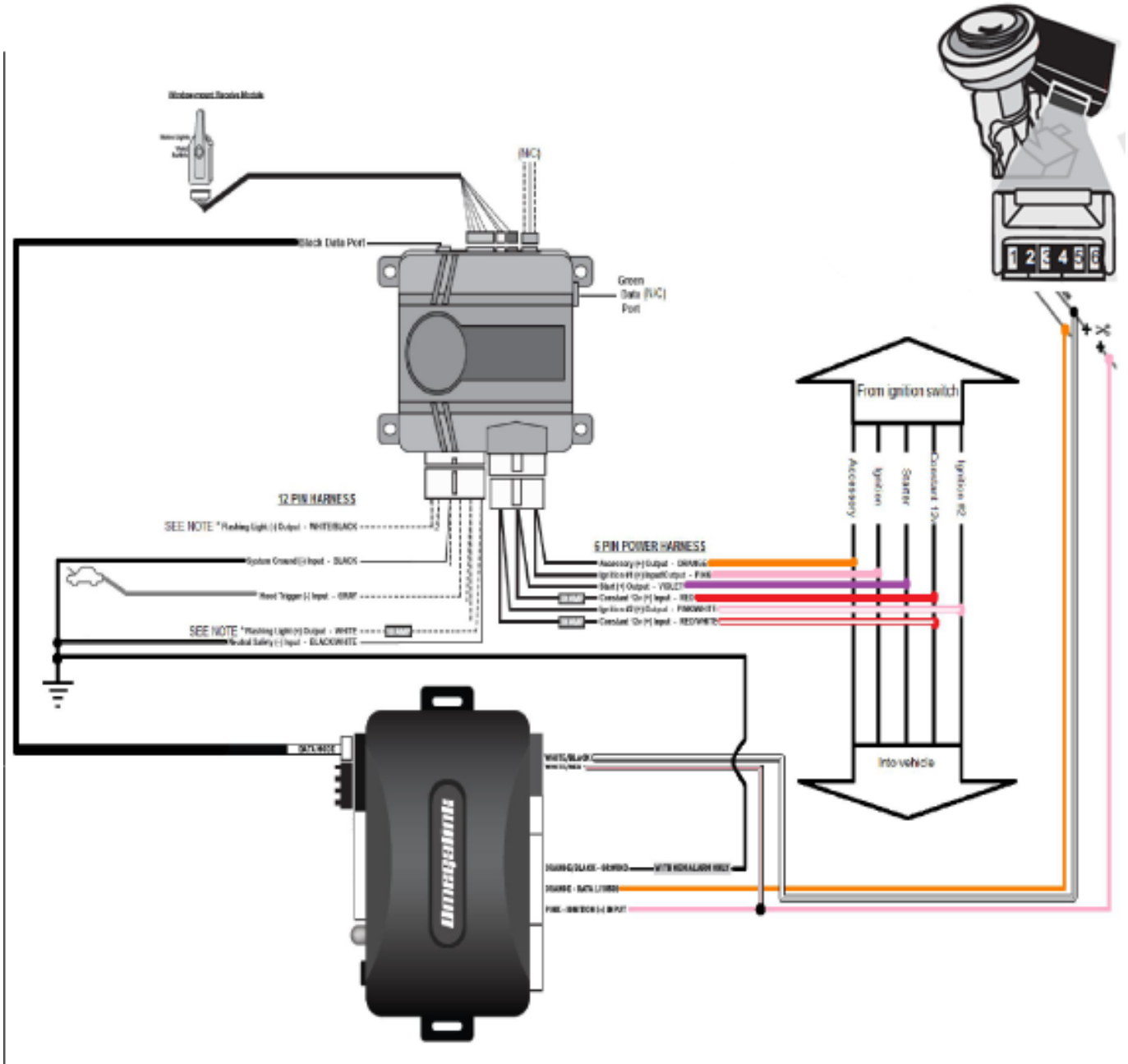
-Important: **DO NOT** use tap connectors on the data wire, solder or wrap and tape this connection.

DETECT OEM ALARM EQUIPPED VEHICLES

WITH OEM KEYFOB	WITHOUT OEM KEYFOB
<p>1 Close hood and trunk/hatch. Enter vehicle. Close all doors.</p>	<p>1 Open driver’s door window. Close hood and trunk/hatch. Close all doors.</p>
<p>2 Press LOCK twice on OEM fob.  x2</p> <p>Wait 60 seconds.</p>	<p>2 LOCK driver’s door twice using OEM key.  x2</p> <p>Wait 60 seconds.</p>
<p>3  Open driver’s door.</p> <p>Alarm goes on, OEM alarm equipped vehicle.</p>	<p>3  Open driver’s door using handle located inside vehicle.</p> <p>Alarm goes on, OEM alarm equipped vehicle.</p>



-The diagram on the next page illustrates all of your needed connections:


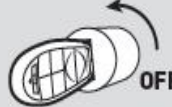
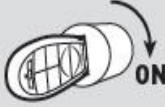



Transponder plug located next to key cylinder



Step 2 - Program the Bypass:

First, select “DATA MODE” in installation mode selection, then proceed with the module programming procedure:

INSTALLATION MODE SELECTION	
<p>1</p>  <p>Press and release programming button to select installation mode.</p> <p>LED flashes (1X) once = DATA MODE LED flashes (2X) twice = STANDARD HARDWIRE MODE</p>	<p>2</p>  <p>Press and hold programming button until LED turns solid GREEN to register selection.</p>

MODULE PROGRAMMING PROCEDURE	
<p>1</p>  <p>Insert key into ignition.</p>	<p>5</p>  <p>Turn key to OFF position.</p>
<p>2</p>  <p>Turn key to ON position.</p>	<p>6</p>  <p>Remove key.</p>
<p>3</p>  <p>LED will turn solid RED.</p>	<p>7</p> <p>Module Programming Procedure completed.</p>
<p>4</p>  <p>Wait, it may take up to 20 seconds. LED will turn solid GREEN then will turn OFF.</p>	

Step 3 - Test the system and close it up!

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

1. Press the ‘lock’ and ‘unlock’ buttons on your remote and confirm that the door locks are operating properly.
 2. Press the “start” button on your remote to start the vehicle. The gauges should power up and a in a moment, the vehicle should start. Make sure the vehicle stays running for longer than 10 seconds, and that your climate controls are functional.
- Stop the engine by stepping on the brake.

Once you’ve completed testing the system, it’s time to close it up.

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. *Bypass module* – can be stowed along with the remote start.
2. *Antenna/Programming button/Status LED* – This typically mounts to the windshield in one of the top corners or behind the rearview mirror. Find a location with clearance and is within its wire reach that is in a visible spot and mount with the double sided tape that is on the back.
3. *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

-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.

-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, 1/2" 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

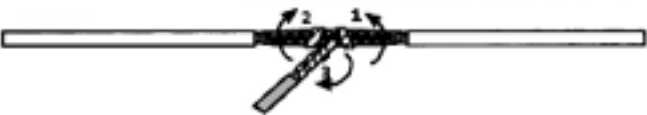
This is the most popular method and is also very reliable. Strip back a section of the insulation on the wire in the car. On heavy gauge wires, 1" is about the right amount. On lighter gauge wires, 1/2" is fine. Strip 1" of insulation off the end of the remote start wire. Separate the strands of the 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.

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.