

Installation Instructions for the Plug & Play Remote Start Package (EVOCHR4)

For JEEP Grand Cherokee 2008-2012

Review the remote start installation manual for safety instructions!

Overview

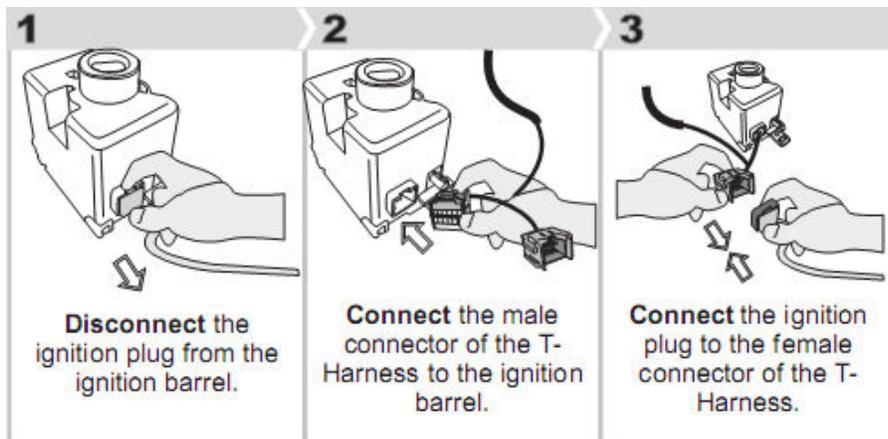
Your kit consists of two modules – a remote start and an EVO-ALL interface module. The EVO-ALL comes with a plug and play t-harness and is designed to make the installation of the remote start very easy. There are a LOT of wires in your kit. Because the EVO-ALL and remote start are designed to work together, you will use very few of them. The only connections into the vehicle that are not direct plug-ins are the OPTIONAL parking light & hood pin features.

STEP 1: Starting the installation

1. The bulk of the installation takes place right under the dash on the driver's side. Begin by removing the plastic panel at the bottom of the dash, above where the pedals are. The panel is held in with both bolts and clips. Be careful not to break the panel – especially in cold weather.
2. Install the on-glass antenna. Good locations for the antenna are at the top center of the windshield and along side the driver's side windshield pillar. Tuck the wire inside the headliner and/or plastic molding and run it down the underside of the dash, near the parking brake release. If you have side curtain air bags, be sure to route the wire so it is behind the air bag, not in front of it. Plug the antenna into the remote start module.
3. We recommend permanently mounting the programming button. Use a ¼" drill bit to make a hole - the top of the plastic kick panel on the left is a good location. Make sure that the switch and the wires do not interfere with the parking brake. Plug the programming switch into the remote start module.

STEP 2: Plug in the T-Harness

1. Locate the ignition plug in the ignition barrel
2. Disconnect the ignition plug from the ignition barrel
3. Connect the male connector of the T-harness to the ignition barrel
4. Connect the ignition plug to the female connector of the T-harness



STEP 3: Connecting the Remote Start & Bypass (See diagram on page 3)

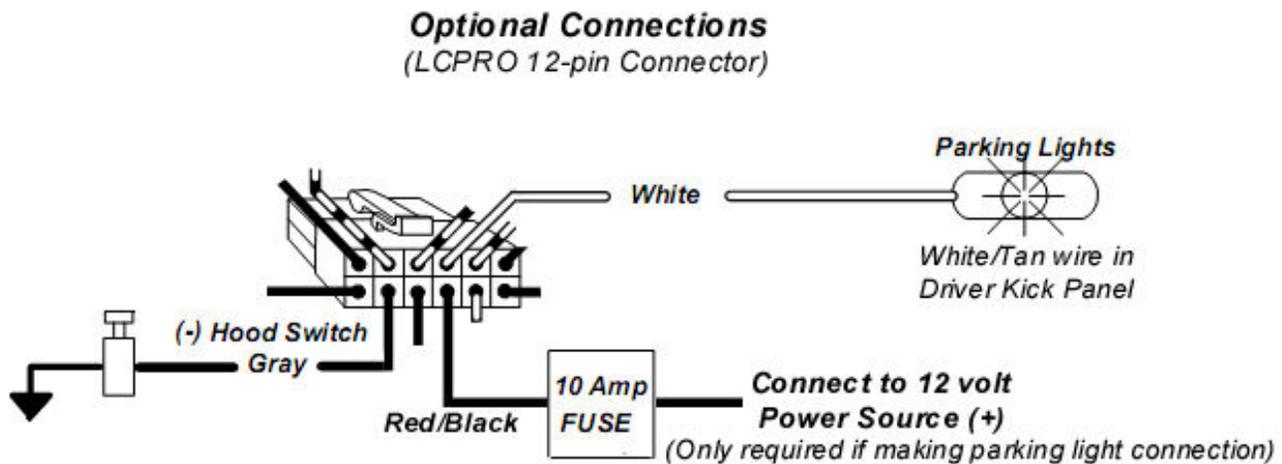
1. Connect the **pink** wire from the remote start 6-pin power harness to the **yellow** wire on the 20-pin harness on the EVO-ALL (pin A1) and the loose **yellow** wire on the T-harness. *NOTE: Do NOT plug the 20-pin connector into the EVO-ALL yet, you will do this during the programming sequence

****STEPS 2-4 are for model years 2008-2010 ONLY. 2011-2012 vehicles skip directly to “Two Optional Features” section**

2. Locate the **yellow** wire on the on the female plug of the T-harness that is plugged into the ignition barrel. Cut the **yellow** wire, making sure to leave enough room on the portion connected to the plug to make a new wire connection.
3. Connect the **yellow/green** wire from the EVO-ALL 6-pin harness (pin D1) to the portion of the **cut yellow** wire that is connected to the T-harness plug. *NOTE: Do NOT plug the 6-pin connector into the EVO-ALL yet, you will do this during the programming sequence
4. Isolate the opposite portion of the **cut yellow** wire with electrical tape

Two Optional Features

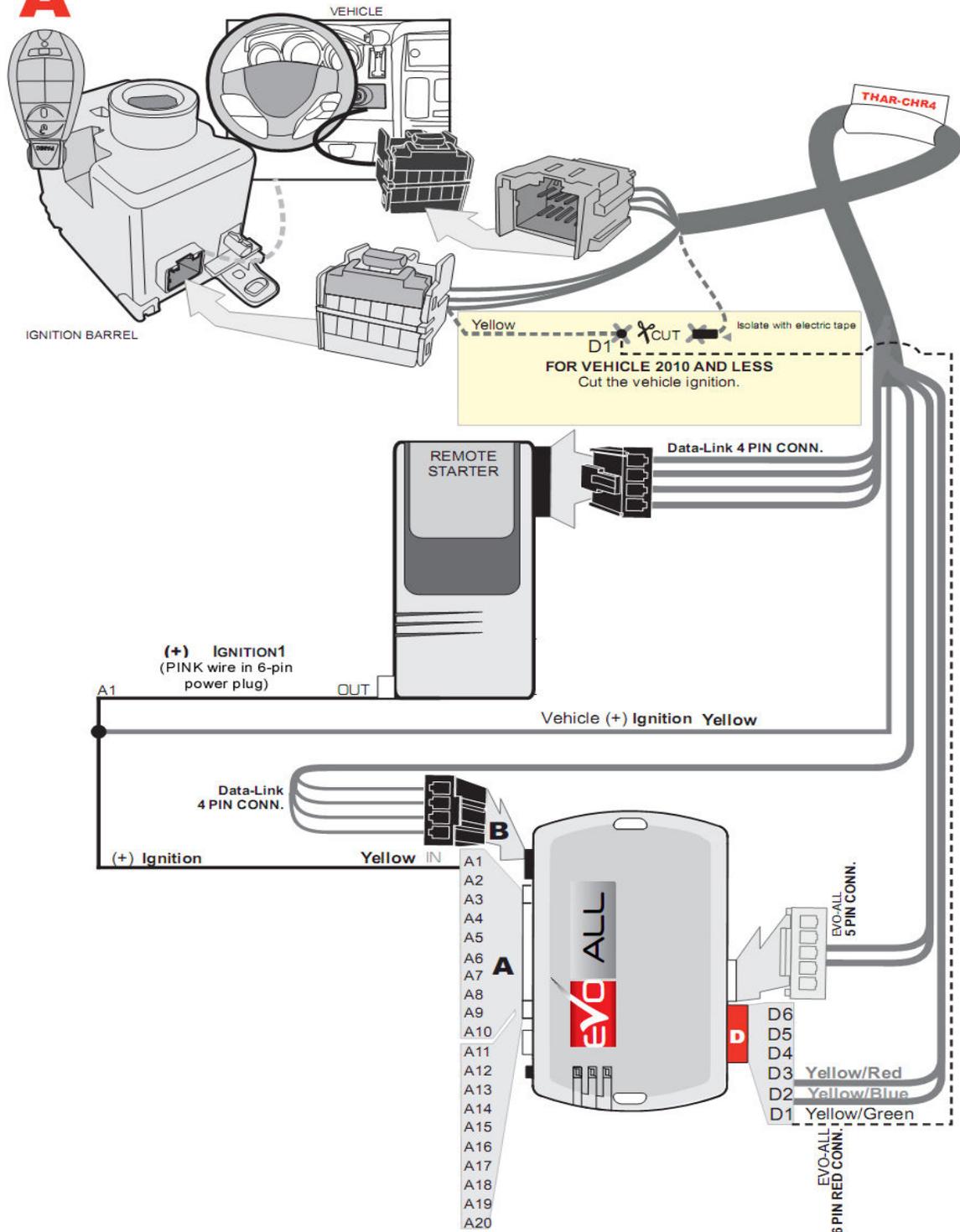
1. Hood Pin – Your remote start kit includes a spring loaded hood pin. While it is not essential to the operation of the remote start, it is an important safety device that prevents the starter from accidentally engaging while the hood is open. If you choose to use the hood pin, it connects to the remote start module via the grey wire in the remote start 12-pin harness. If you choose not to connect the grey wire to the hood pin, leave it accessible because you will need to be able to touch it to ground when you do your features programming for the remote start.
2. Parking Lights – The remote start has the capability of turning on your parking lights while the vehicle is running on the remote start. Many newer vehicles do this automatically, so connecting the parking lights via the remote start has no benefit. If your vehicle does not have this feature and you wish to have the remote start turn on your parking lights, do the following:
 - Locate the **red/black** wire in the LCPRO remote starter’s 12-pin harness and connect that wire to a +12v power source
 - Connect the **white** wire from the LCPRO remote starter’s 12-pin harness to the **white/tan** wire in your vehicle’s driver side kick panel



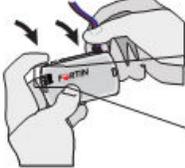
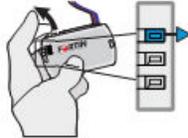
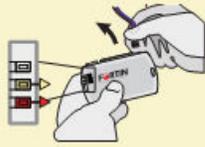
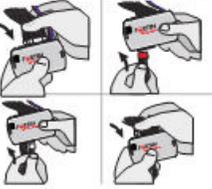
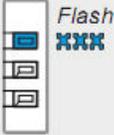
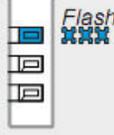
THAR-CHR4

CONNECTION

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STEP 4: Program The Bypass

1  <p>Press and hold the programming button:</p>				 <p>Insert the 4 Pin (Data-Link) connector.</p>				<p>The LED's will alternate between BLUE, RED and YELLOW flashes.</p>				 <p>Release the programming button when the LED is BLUE</p>				<p>If the LED is not solid BLUE disconnect the 4 Pin connector (Data-Link) and go back to beginning of step 1.</p> 				2  <p>Insert the required remaining connectors: 20 pin (White), 5 pin (White), 6 pin (Red), 2 pin (White),</p>			
3  <p>Turn the Ignition to the ON/RUN position.</p>		 <p>Flash XXX</p> <p>The BLUE LED will flash rapidly.</p>		 <p>Turn the Ignition to the OFF position.</p>		 <p>Flash XXX</p> <p>The BLUE LED will flash rapidly.</p>		5 With OEM remote or Without OEM remote															
 <p>Press the LOCK button on the vehicles OEM remote.</p>				 <p>Press and release the programming button on the EVO once.</p>																			
 <p>The BLUE LED will turn off.</p>		 <p>The module is now programmed.</p>																					

STEP 5: Finish up!

Test all functions. After confirming that everything works properly, secure the remote start module and all the wires connected to it. Make sure none of the wires interferes with any of the moving parts under the dash. Replace the plastic panel that surrounds the ignition switch.

Cap off or tape the ends of any wires you're not using to prevent accidental grounding or other contact. Be particularly careful with the unused heavy-gauge wires in the remote start's power harness. 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.

Installer's Tips

Tip #1 – Programming Options

There are a variety of useful programming options available for your remote starters such as “engine run time”, “idle down timer”, etc. Instructions for how to program these options can be found on pages 15-16 of the installation instructions manual for your LCPRO remote start. Descriptions for each of the options available can be found on pages 17-21.

Tip #2 – 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. *Valet Switch* – 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 #3 – 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, 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. 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.

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