Installation Instructions for the Plug & Play Chrysler/Dodge/Jeep Remote Start Package T2 w/MUX Relay (add-on)

Review the remote start installation manual for safety instructions!

Overview

Your kit consists of two modules – a remote start and a EVO-CHR interface module. The EVO-CHR is designed to make the installation of the remote start very easy. There are a LOT of wires in your kit. Because the EVO-CHR and remote start are designed to work together, you will only use a few of them.

You will be using the THAR-CHR2 harness.   When you refer to the installation instructions for the EVO-CHR, the only pages relevant to your installation will be those that specify THAR-CHR2 and "with Data-Link".

In addition, when you look at the wiring diagrams in the EVO-CHR manual, you will see two kinds of connections. Most of the connections are illustrated with 'dashed' lines. You will not need to make any of those connections.   The only connections you'll need to make are the ones shown with solid black lines. There are three of those – we'll address them a little later.

Here is what you will use:

- **In the remote start power harness:** This is the harness with the 6 large power wires. You will use only the two large red wires, the pink wire and the pink/white wire.   Connect the red wires to a constant +12-volt power source. This can be the battery, or more conveniently the power wire in your ignition switch harness. If you have provided us with the model/year of your car, your package will include a TechWeb wiring chart.   Look for the Wire/Function labeled "12 Volts".   That's the wire you connect to. You can connect the two red wires from the remote start to the same wire in the car. The pink wire gets connected to the yellow wire on the 14-pin harness that comes with the EVO-CHR. Instructions for the pink/white wire are on page 2.

- **In the remote start 12-pin harness:** You will only use the ground (black) wire, the white wire and the yellow/black wire. The grey wire is optional and we will refer to that later.

- **In the remote start 3-pin harness (with RED plug):** You will use the green 'activation' wire.   There is a section devoted to that later in this document.

- **The EVO-CHR 4-pin harness** will plug in to the remote start

- **In the EVO-CHR 14-pin harness:** You will only use only the yellow wire and the white/black wire. Connect the yellow to the pink wire on the remote start's main power harness. Instructions for the white/black wire are on page 2.

- **MUX relay –** Your vehicle requires an additional relay called a "MUX" relay. The relay is included in your kit.   See page 3 for installation tips.

Vehicle Wiring Information

If you included your vehicle model/year info with your payment, there should be a printout in your package that shows the color and location of various wires in your car.   If you do not have the printout, please email us at

auctions@mypushcart.com and we'll email back a copy.   Keep in mind that you will need very little of that information, but the chart is helpful in identifying your parking light wire color and polarity.

Starting the installation.

1. 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. Install the on-glass antenna and the programming switch. 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. Use a ¼" drill bit to make a hole for the programming switch. The top of the plastic kick panel on the left is a good location. Makes sure that the switch and the wires do not interfere with the parking brake. Plug the antenna and programming switch into the remote start module.

Installing the remote start module

The remote start module is typically installed under the dash. Choose a location that will enable you to connect all your wiring without interfering with any moving parts, such as the brake and gas pedals, parking brake or steering column.

2. Make these three wiring connections described earlier:
    a. The red power wires in the remote start's power harness to +12-volts
    b. The black wire in the remote start's 12-pin harness to ground
    c. The yellow wire from the EVO-CHR 14-pin harness to the pink wire in the remote start main power harness

3. Many newer vehicles have parking lights that automatically turn on when the vehicle is running. If your parking lights do NOT automatically turn on when the vehicle is running, but you do want them to turn on when you remote start, you'll need to make two connections.
    a. First, refer to your wiring chart and see if your parking light circuit is (+) or (-) polarity.   The red/black wire in the remote start 12-pin harness is used to set the remote start for the correct polarity output.
    b. If your parking light circuit is (+), connect the red/black wire to a (+) power source.   Tapping on to one of the large red wires in the remote start 6-pin harness is an easy way to do that.
    c. If your parking light circuit is (-), connect the red/black wire to ground.
    d. Once you've selected the polarity, connect the remote start's parking light wire (WHITE in the 12-pin harness) to the parking light wire in the vehicle.Connect the black Data-Link connector from the EVO-CHR to the data port on the remote start. Refer to the remote start installation manual for the location of the data port plug. Be sure not to plug it in upside down!
4. Now go to the middle of Page 6 in the EVO-CHR manual. It will show you the proper sequence for plugging in the t-harness and programming the EVO-CHR.
5. There is an LED included in the kit that can be used as a security deterrent. This is optional. If you want to use it, install the LED and plug it in to the remote start module.

Mux Relay Installation

Some Chrysler vehicles require an additional relay called a "MUX" relay. The relay is included in your kit.   Here's some easy-to-follow step by step instructions:

1. Locate the 5-pin power connector in the vehicle – it's near the key cylinder and is shown on the wiring diagram in the EVO-CHR manual.
2. Yellow tap-on connectors supplied with the relay, Using a pair of pliers (see page 3), attach one connector to each of the 3 wires shown on the diagram and labeled as "(+) Ignition", "(+) Starter", and "(+) 12v Battery".
3. Cut the wire shown as the "MUX" wire.   Make the cut a few inches away from the plug so you have a little working room.

4. Plug your wires into the tap-on connectors:
   - The pink/white wire from the remote start into the tap-on connector that is on the "(+) Ignition" wire
   - The brown wire from the remote start into the tap-on connector that is on the "(+) Starter" wire
   - The black wire from the relay harness into the tap-on connector that is on the "(+) 12v Battery" wire

5. Connect the remaining wires on the relay wiring socket:
   a. The red wire from the relay wiring socket to the half of the MUX wire that is still attached to the 5-pin power plug in the car
   b. The blue wire from the relay wiring socket to the other half of the MUX wire
   c. The white wire from relay wiring socket to the yellow/black wire on the remote start's 12-pin harness
   d. The yellow wire from relay wiring socket to the white/black wire in the EVO-CHR 12-pin harness

Activation Wire

Your remote start will be activated by pressing your factory remote 'lock' button 3 times in succession. The remote start accomplishes this with a connection from its 'activation wire' (Green wire in the 3-pin harness with the red plug) to the 'motor lock' wire in the vehicle. This is the wire that goes directly to the motor in your door. In Chrysler vehicles, it is typically found in the driver's kick panel. Please refer to your vehicle wiring chart for the exact location and wire color.

Helpful hint: Don't make this connection until you've completed and tested the rest of the installation.

Another Helpful Hint: We have had rare instances where an additional relay is required for the activation wire. We have included the relay in your kit, but it is highly unlikely you will need it. If it is determined that you need to use the relay, see "Installation Tip #2" on page four for wiring instructions.

Motor Lock Wire Colors:

Vehicle		Wire Color	Wire Location
Chrysler 300-300C	2005-2007	Light Green	Driver's Kick Panel
Chrysler PT Cruiser	2008-2010	Tan/Dark Blue	Driver's Kick Panel
Chrysler Sebring	2007	Tan/Dark Blue	Driver's Kick Panel
Dodge Caliber	2007	Light Green/Tan	Driver's Kick Panel
Dodge Charger	2006-2007	Light Green	@ Cluster
Dodge Magnum	2005-2008	Light Green	Driver's Kick Panel
Dodge Ram	2006-2007	Light Green	Driver's Kick Panel
Jeep Commander	2006-2007	Light Green/Light Blue	Driver's Kick Panel
Jeep Compass	2007	Tan/Dark Blue	Driver's Kick Panel
Jeep Grand Cherokee	2005-2007	Light Green/Light Blue	Driver's Kick Panel

One decision……

The grey wire in the remote start's 12-pin harness serves two functions. It is used when you program your remote start's optional features, and when used in conjunction with the pin switch provided in the kit it is a safety circuit to prevent the remote start from starting the vehicle with the hood open. If you want to use the safety feature, you can either connect the grey wire to an existing hood pin that connects to ground when the hood is opened, or you can install the pin switch provided in the kit. It is recommended that you connect this wire.

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.

Finish up!

1. Program your remote start for '3 pulse' activation.   Instructions are on page 15 of the remote start installation manual. Change option #17 to '3 Press'.
2. Test all functions. To start the car, take your green activation wire and touch it to ground three times.   After the third touch, your ignition should turn on, and then the car will start.   Press the brake pedal to turn the car off. 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.
3. 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.
4. Connect the green activation wire to the "motor

Helpful Notes:

The wiring diagrams in the EVO-CHR manual give you a good overview of the entire installation.   Note that you will NOT be connecting all the wiring connections shown with dotted lines.   Those connections are all made internally with the Data-Link system.   The only connections you will be making in to the vehicle are the ones shown with solid black lines (12v Battery, Parking Lights) and ground. In addition, you will make the one connection shown in the diagram between the EVO-CHR and the remote start module.

Installation Tip #1:

Use a pair of pliers to attach the tap-on connectors 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. We've included a piece of wire an extra quick-connect so you can try it before you start working on the car.

Figure 1

Figure 2

Figure 3

Installation Tip #2:

If you need to add the relay to the Motor Lock wire, connect it as follows:

Pin 30 – to green activation wire on remote start
Pin 85 – To 'Motor Lock' in vehicle
Pin 86 - Ground
Pin 87 - Ground
Pin 87a – not used – pull out the wire.