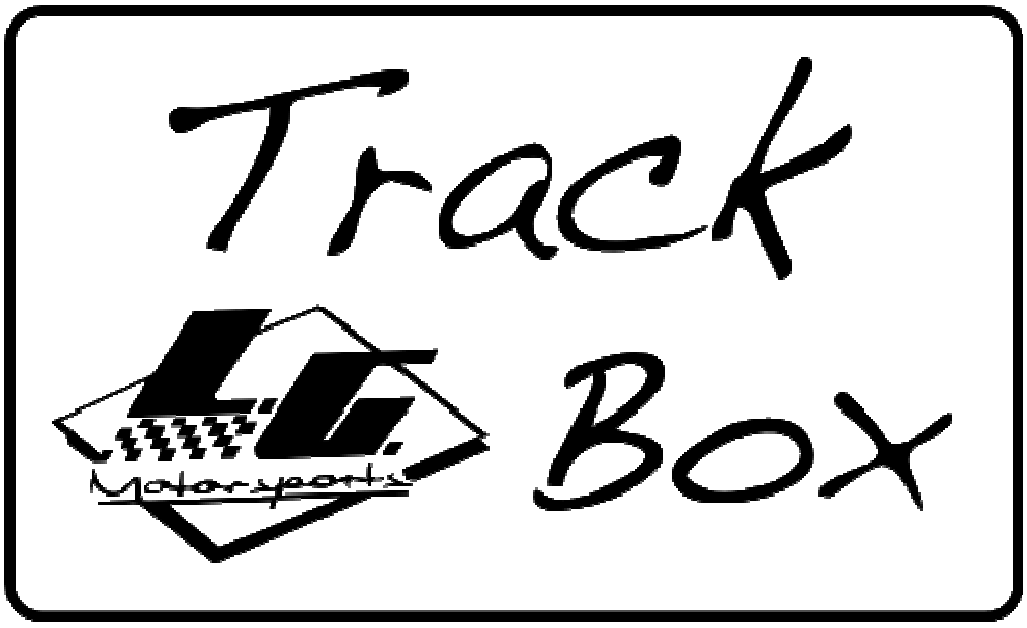

Operation and Installation instructions

2005-2013 Corvette

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TrackBox

Operation and Installation instructions

2005-13 Corvette

Thank you for purchasing the **TrackBox!** This innovative product will completely eliminate the need for tire pressure sensors to be present in the wheels of your vehicle. In addition, it sets your vehicle's default state at start-up to Traction and Active Handling "OFF". These features are intended for off road use only, such as at the race track or drag strip.

Your TrackBox should have come with everything shown in Figure 1 below:

Figure 1

1. TrackBox
2. TrackBox to vehicle wiring harness
3. Velcro
4. Shrink tubing
5. Wire joint connectors
6. QR instruction card

TrackBox Operation

Operation is simple. Once installed, the TrackBox will do two things:

1. Send the “tire pressure acceptable” message to vehicle's electronic brake control module (EBCM)
2. Set the default state of the Traction Control System (TCS) and Active Handling system (AH) to “OFF”.

The TPMS settings are active at all times when the TrackBox is installed. The TCS/AH setting defaults to “OFF”, but can easily be reactivated by pressing the TCS/AH button on the center console. Pressing the button once reactivates both systems and puts the vehicle back to OEM mode. In OEM mode, the button functions exactly as if the TrackBox were not installed; one press for TCS off, two presses for “Competition mode” and press and hold to return to “TCS and AH off”.

> **Important Note**: *when the TrackBox is installed in track mode, the tire pressures displayed in the vehicle DIC will reflect the current state of the system. This means any TPMS error messages from missing or unlearned sensors WILL be present. Pressures may read values, or “XX”. The TrackBox is working (blue led lit) and the ESC system is now isolated from the TPMS. You are now able to control the AH mode even when the TPMS shows you faulted sensors. When driving your vehicle on public roads it is important to return the TrackBox to OEM mode.*

TrackBox Installation

To ensure proper functionality, we recommend that the TrackBox product is installed by a certified LG Motorsports or Cortex Performance products dealer or installation shop. The TrackBox must be installed into the vehicle CAN bus between the BCM (Body Control module) and the vehicle harness. This allows it to communicate directly to the vehicle. The TrackBox must be mounted inside the passenger compartment. It is not designed to be mounted outside the vehicle or in the engine compartment where it can be exposed to high temperatures and the environment.

1. Disconnect the negative battery terminal on the vehicle.
2. Locate the BCM; in the passenger footwell of the vehicle, behind a flap of carpeting under the glove compartment (Figure 2).

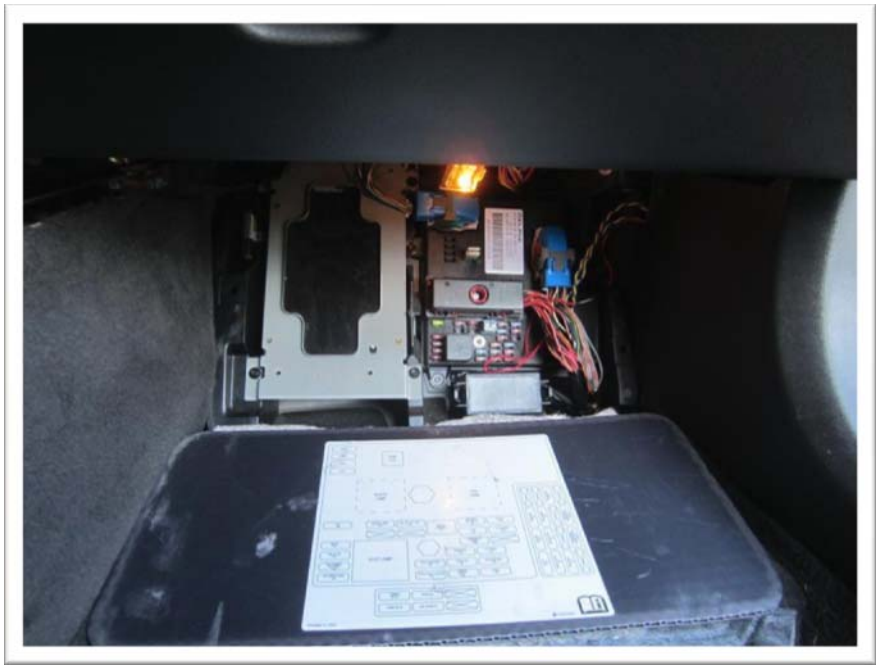


Figure 2

3. While not required, it is easier to access the necessary areas if the plastic rocker panel is removed. This is done by gently pulling the rear end of the panel upward to disengage each of the clips along its length. Then slide it out from under the dash trim piece along the front door sill. Figure 3 shows the trim piece to be removed and Figure 4 shows its location.

Figure 3

Figure 4

4. There are three connectors and a fuse panel in the BCM. (Figure 5) The blue shrouded connector in the upper right hand corner of the BCM (circled) needs to be removed to gain access to the wiring.

Figure 5

5. Unplug this connector by rotating the grey clip upward. You may need to pry the middle of it gently with a screwdriver to allow it to release. Remove the blue shroud from the connector to expose the wires.
6. Locate the “tan” and “tan/black stripe” wires from this connector. **Important: There are multiple tan wires in this connector. Make sure that you locate the four wires in location 1 and 2 (Tan/Blk), 19 and 20 (Tan), shown in Figure 6**.

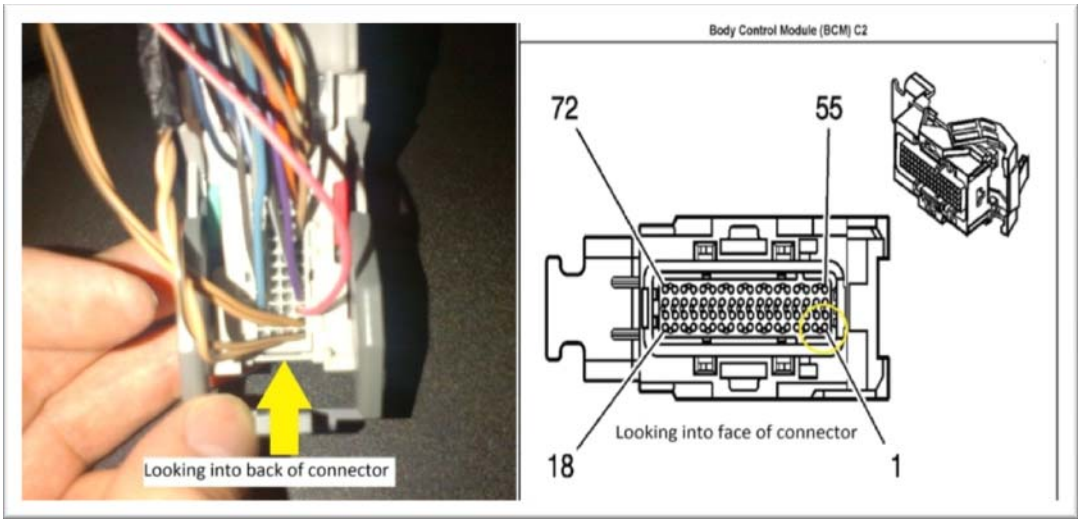


Figure 6

7. Once you have identified these four wires, they must be cut so that the TPMS controller can be installed. Leave yourself a few inches of wire to work with.
8. Strip about ½ inch of insulation from the end of each wire and slide a piece of the included shrink tubing over each end before connecting.
9. Wire pair (pin1 and pin2), and pair (pin3 and pin4) on the TrackBox harness come twisted together. They can be un-twisted a few inches to help installation, but not all the way. The red and black wire may be un-twisted as much as needed to install. The preferred method of installation is to solder the wires as shown below, but the included wire crimp connectors can be used if required. Connect the TrackBox harness into the vehicle harness as follows:

    - ✓ Step 1: Solder the two tan wires (pins 19 and 20) from the BCM connector together with the blue wire (pin1) from TrackBox harness. See figure 7

    - ✓ Step 2: Solder the two tan/black wires (pins 1 and 2) from the BCM connector together with the yellow/red wire (pin2) from the TrackBox harness. See figure 7

    - ✓ Step 3: Solder the two tan wires from the Vehicle Body Harness together with the blue wire (pin3) from TrackBox harness. See figure 7

    - ✓ Step 4: Solder the two tan/black wires from the Vehicle Body Harness together with the yellow/red wire (pin4) from TrackBox harness. See figure 7

    - ✓ Step 5: Connect the black wire (pin 5) to vehicle ground. There is a convenient ground located under the kick panel near the BCM, shown in figure 8. This black ground wire can be tapped into any of the existing black ground wires located in this area.

    - ✓ Step 6: Connect the red wire (pin6) to a constant 12V battery source. This wire must have power even when the vehicle ignition is “off”. A convenient power source is located right at the BCM connector shown in figure 9. The connector must first be unscrewed and then the

shroud must be removed (as seen in figure 10). The red wire should be tapped into the red/white wire shown in figure 11.

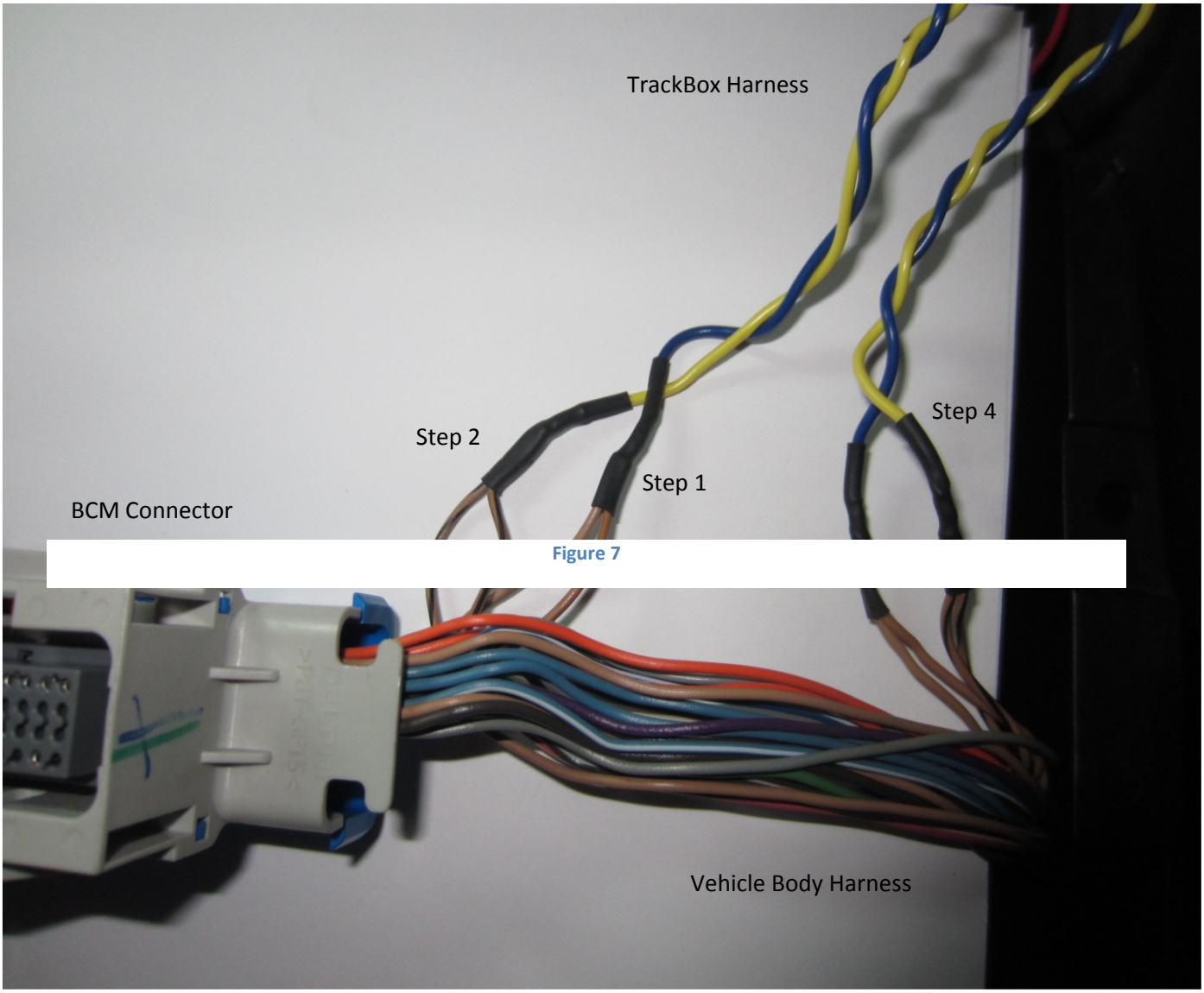
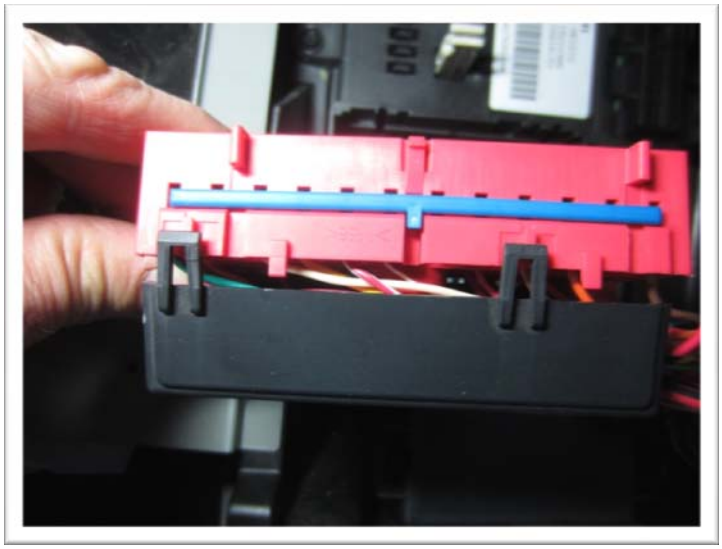


Figure 7

Figure 7



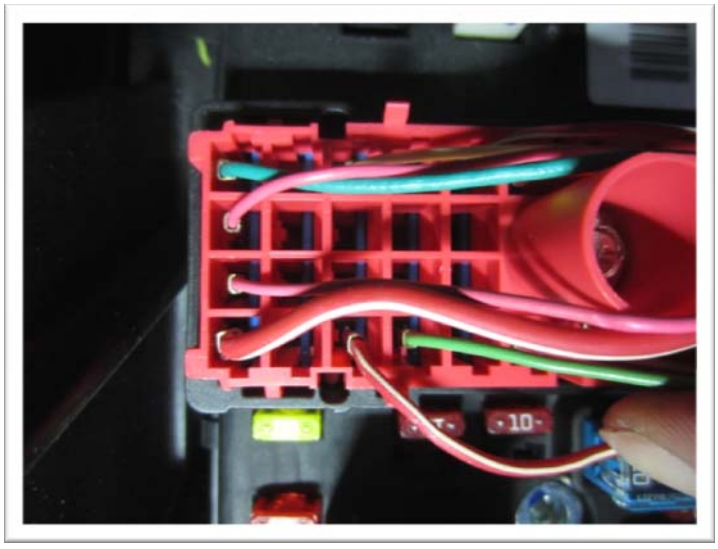

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Figure 10

Figure 11

10. For all connections, slide the shrink tubing over the solder joint and apply heat via a heat gun to shrink it tightly against the wiring.
11. Reconnect the negative battery terminal on the vehicle.
12. Insert the connector into the TrackBox “Street mode” position (figure 12)

Figure 12

13. To verify that your wiring is correct, simply start the car. It should start and function as normal with no error messages present (unless there were any pre-existing conditions causing a warning lamp), as shown in Figure 13.

Figure 13

14. Once the wiring has been verified, turn off the vehicle. Plug the harness into the TrackBox "Track mode" position (figure 12).
15. Restart the vehicle. It should start and function as normal, but the "Traction and Active Handling-OFF " message will show in the DIC as shown in Figure 14.

Figure 14

Note: Proper functionality can be verified by pressing the ESC button, as outlined in the Operation section of this document. Pressing it one time should turn both systems on, and all warnings and lamps should be OFF.

16. If step 13 through 15 were successful, affix the TrackBox into its permanent location. Using the supplied Velcro, attach one side to the TrackBox and one piece to the vehicle in the location you prefer. Choose a location where the TrackBox will not be disturbed and can get appropriate airflow. One convenient location is under the stereo amplifier just left of the BCM, shown in Figure 15. Ensure the wires do not rub on anything which could damage the insulation.

Figure 15