

GM INSTALLATION INSTRUCTIONS
Chevrolet Impala 2006 to 2014
PN: SI 340TK 06

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SECURE-IDLE is an ignition switch bypass device designed to provide all the electrical functions that the OEM ignition switch normally provides. For proper operation and long term performance, **DO NOT deviate from the wire connection instructions.**

For each wire connection, remove approximately one half inch of insulation from the OEM wire, but **DO NOT cut through the wire.** Cutting the wires causes high resistance and a possible failure point. Strip approximately one half inch of insulation from the end of the SECURE-IDLE wires to be attached to the OEM wires. Wrap the SECURE-IDLE wire around the bare area of the OEM wire and solder the connection. Tape the connection thoroughly after it cools.

DO NOT use scotch lock type pinch through connectors. These connectors cannot handle the higher amperages of the ignition circuits, and will void the SECURE-IDLE warranty.

Use the wiring diagram to locate the correct wire and pin location on the backside of this page.

Installation

1. Remove the lower dash panel under the steering column to access the OEM ignition switch which is mounted on the steering column. Mount the SECURE-IDLE unit near the ignition switch.
2. Locate a good metal ground and connect the **Black** SECURE-IDLE wire.
3. Locate the OEM ignition switch and wiring. Remove the insulation from the **RED/WHITE** wire pin 2 and attach the **RED** 14 Ga. SECURE-IDLE wire according to the above instructions. This OEM wire will be hot all the time.
4. Locate the **BROWN** wire, Pin 3, Attach the **YELLOW** 14 Ga. SECURE-IDLE wire according to the instructions. This OEM wire will be hot in **RUN** and **ACC**.
5. Locate the **PINK** wire, Pin 1 Attach the **RED** 18 Ga. SECURE-IDLE wire according to the instructions. This OEM wire will be hot in run.
6. Locate the **WHITE** wire, Pin 5, Attach the **WHITE** 14 Ga. SECURE-IDLE wire according to the instructions. This OEM wire is the **KEY** in Circuit
7. OEM Pin 5 and 6 are not used.
8. The **BROWN** SECURE-IDLE wire is the control wire. This wire must see a ground to operate and engage the SECURE-IDLE unit, then to disengage or reset the unit; this wire must see either an OPEN Circuit or a +12 volt signal. There are several options for this wire depending on how the department wants the vehicle to operate.

Option 1: To shut down with the brake pedal. Using an auxiliary relay, attach the **BROWN** SECURE-IDLE wire to Pin 87a, Ground Pin 30 and Pin 85, attach a wire to pin 86 and run it to the third brake light feed wire.

Option 2: (for police package vehicles only) for automatic control where the brake circuit will not shut it off, using an auxiliary relay, attach the **BROWN** wire to pin 87a, Ground Pin 30 and 85, attach a wire to Pin 86 and run it to the Police Package upfitter wire (**YELLOW/BLACK** blunt cut) at the right kick panel.

Testing the SECURE-IDLE Unit

1. With the shift lever in **PARK** start the vehicle. Push and release the **RED** push button switch. This activates the SECURE-IDLE unit. You will hear a single click when the button is pushed.

2. Turn the key to the **OFF** position. The vehicle will remain running. Test all OEM electrical functions, ie: blower motor, power windows, radio, etc.

3. Turn the key to the **START** position, the starter motor should not crank.

TO SHUT DOWN OR RESET

4. OPTION 1: With the vehicle running and the SECURE-IDLE unit engaged and the Ignition Key in the **OFF** position, depress the brake pedal, this will shut the vehicle off.

5. Start the vehicle; activate the SECURE-IDLE unit by pushing and releasing the **RED** push button. Turn the ignition key to the **OFF** position, the vehicle will remain running. Turn the ignition switch to the **RUN** position, depress the brake pedal. This will reset the SECURE-IDLE unit and the vehicle will be back under OEM Ignition Switch Control, (Normal Operation). Turn the ignition switch to the off position, the vehicle will shut off.

6. OPTION 2: With the vehicle running push the **RED** push button switch. This activates the SECURE-IDLE unit. Turn the key to the **OFF** position. The vehicle will remain running.

7. Recheck all **RUN** and **ACCESSORY** electrical functions while the vehicle is under SECURE-IDLE control.

8. With the brakes applied, insert the key and turn to the **ON** or **RUN** position. Move the gear shift lever from **PARK** to **DRIVE** then back to **PARK**. This resets the SECURE-IDLE unit and the vehicle is now back under OEM ignition switch control.

9. Turn the key to the **OFF** position and the engine will stop.

10. Tie wrap all loose wires and replace the removed panels.

11. To disable the SECURE-IDLE unit, pull apart the quick disconnect. It is located on the **RED** 10 Ga. wire coming out of the SECURE-IDLE unit.

12. Instruct all drivers on the proper operating, reset procedures, and the location of the quick disconnect of the SECURE-IDLE unit.

13. In the unlikely event that the engine will not turn off after the unit has been reset, the driver should disable the unit by pulling apart the quick disconnect.

14. If the engine stalls while under SECURE-IDLE control, the unit must be reset before the engine can be restarted.

Wiring Diagram for Chevrolet Impala

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