

GM FIM LOCKPICK™ INSTALLATION OPTIONS

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Coastal Electronic Technologies, Inc.

Freedom In Motion

GM Lockpick™

Thank you for your purchase of the Coastal Electronic Technologies, Inc. GM FREEDOM IN MOTION LOCKPICK. The GM FIM Lockpick is the replacement for the GEN 6 and is the latest in a long history of Lockpicks designed to enable full functionality to your factory GM navigation system. The FIM Lockpick incorporates many important standard features including:

- NAVIGATION ADDRESS INPUT in motion
- DVD play and AUX input fully enabled (in equipped vehicles)
- Special cables and connectors for plug-in installations that are completely reversible
- Advanced use of steering wheel controls for Lockpick operation
- * Full text menus on your factory instrument panel of all Lockpick functions
- * USB update ability to keep current with new software revisions
- * Front or rear camera control for viewing anytime
- * Automatic front camera option that turns on whenever the vehicle is below 8 mph for trouble free parking

At this time, Coastal Electronic Technologies, Inc. would like to recommend that you have this installation completed by a certified mechanic or someone familiar with automotive electronics. This installation, while not time consuming, does require careful attention to detail and precise following of installation instructions.

Coastal Electronic Technologies, Inc. accepts no responsibility due to the improper installation or use of this product. Installation and / or use of this product implies and signifies user acceptance of this term of use. Please adhere to all driving laws in your state.

INSTALLATION

OVERVIEW

1. Remove radio trim panels to gain access to radio mounting screws.
2. Remove the radio partially to expose rear connectors.
3. Unplug factory connectors from radio and then plug them into Lockpick harness connectors.
4. Plug in Lockpick harness connectors to radio.
5. Set Lockpick module controls and switches to proper configuration and then plug into harness.
6. Connect camera power and ground if installing an aftermarket system.
7. Reassemble and enjoy.

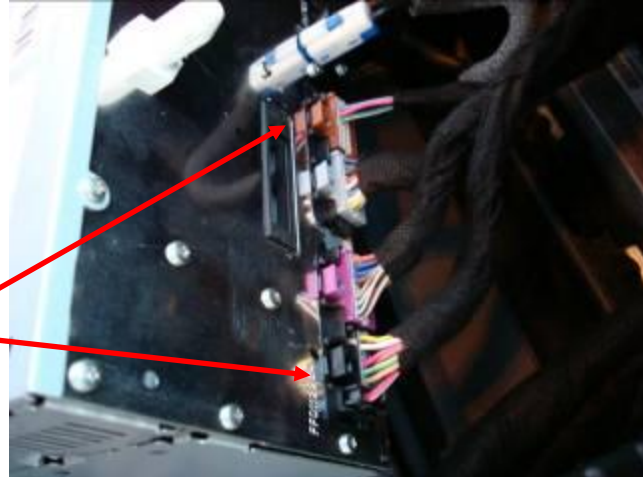
This written guide will detail the connections for the Lockpick harness and provide reference for general installation and operations. The FIM Lockpick is universal for many different GM models and individual dash disassembly is not addressed in this manual. Videos detailing complete installations in many different vehicles are available on our website at www.coastaletech.com/gen6lockpick.htm

1. Start with the car and radio turned off. The Lockpick is designed with a dual "T" harness, equipped with factory male and female connectors for direct connections to your screen. With access to the rear of the screen, unplug the matching **Black and Brown connectors** and plug them into the female connectors of your LOCKPICK. Then plug the male connectors of the LOCKPICK harness into the earlier factory locations. The connectors are keyed and cannot be plugged in to the wrong location. For most installations, the disassembly needed to get to the rear of the screen will consist of "popping" loose the trim around the face of the radio to expose the 7mm or 10mm bolts holding the radio in position. Remove the bolts and the radio can be tilted rearward to view the connectors needed. The trim around the face of the radio is held in place with spring loaded friction locks which sometimes can require extra pressure to

release. Videos and have been provided on the CoastalEtech.com website to provide you assistance as well as details and photos for Cadillac Escalade installations.

INSTALLATION DETAIL

Unplug the Black and Brown connectors on the rear of the radio. Plug them into the matching connectors of the Lockpick harness. Then plug the remaining Lockpick harness connectors back into the original radio locations. The connectors are unique and keyed so you cannot plug them into the wrong location. Insert the connectors fully until they click or are locked into place.



2. The Lockpick is a simple Plug-N-Play interface however additional wiring is labeled and available on your Lockpick harness. These connections may be used for your aftermarket accessory power needs.

RED – 12V ACC power output (Limit 1 amp) This is an output, do not connect to vehicle wiring. If your accessory requires more than 1 amp, use this power output to control a relay connected directly to battery power.

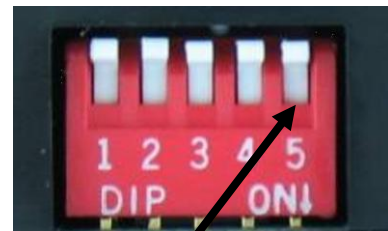
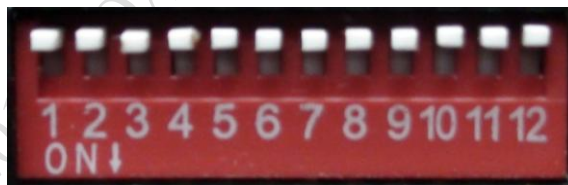
YELLOW – 12V constant battery power output

BLACK – GROUND connection

ORANGE W/BLACK STRIPE – 12V rear camera power output (use this power source for your aftermarket rear camera or for full control of your factory camera see step 3 below)

RED W/BLACK STRIPE – 12V second camera power output (use this as the power source for a second or front view camera)

3. Lockpick SETUP - **Before plugging in your Lockpick**, insure that the switches and controls are properly set for your vehicle and options desired. For GM radio systems, place the vehicle select rotary switch in position number 8. Place all communications switches in the UP (OFF) position. The FIM Lockpick can be configured to disable the ability to view DVD in motion by placing OPTION DIP switch 5 to the DOWN (ON) position. All other functions including NAV IN MOTION plus camera control are still operational with Option switch 5 down.



**PLACE SWITCH 5 DOWN FOR DEALER MODE
– DVD IN MOTION BLOCKED–**

4. **Optional - If you have a FACTORY REAR VIEW CAMERA and would like to be able to view and control it when in DRIVE, extend the ORANGE W/BLACK STRIPE - 12V REVERSE wire labeled in your Lockpick harness. A crimp connector is already attached for your convenience. There are two methods depending on the model and year of your vehicle.**

EARLY MODEL OPTIONAL FACTORY CAMERA LOCKPICK CONNECTION

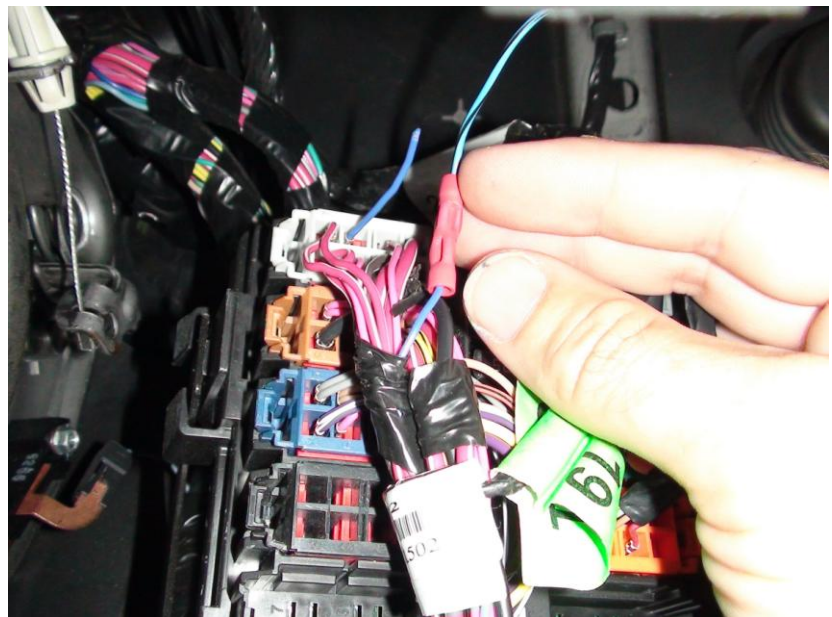
- Unplug connector from module under passenger seat.
- Cut blue wire
- Attach ORANGE W/BLACK STRIPE wire to blue wire of factory connector and plug connector back into module
- Cover and insulate remaining loose end of blue wire left in factory harness and leave disconnected
- Anytime factory camera use is now enabled by the FIM Lockpick

Unplug connector from camera module under passenger seat and pull into view as shown. Cut and strip pictured blue wire as demonstrated and attach to wire included with your Lockpick.



Route the wire along the edge of the console and down to the small silver module under the passenger seat. Slide the seat all the way back to view the connector on the front or side edge. Unplug the connector and cut the Blue wire pictured in the photo below (end wire, left side, from the back of the plug). Attach the ORANGE W/BLACK STRIPE Lockpick wire to the blue wire on the vehicle connector. The other cut end of the wire in the factory harness should be insulated and left disconnected. Do not connect the Lockpick ORANGE W/BLACK wire without cutting the BLUE factory wire or improper operation will occur. Also, early year Enclave and Acadias may place the camera module in the rear instead of under the passenger seat. Refer to website at: <http://coastaletech/Acadia.htm> for installation help.

For 2008 and later H2 and all 2009-12 vehicle installations, extend and run the Lockpick ORANGE W/BLACK wire to the connector bundle under the black cover located on the driver side upper floorboard. Under the connector cover, locate the white connector pictured in the photo below. Cut the blue wire shown and connect it to the extension you have created for the Orange/Black stripe reverse camera power wire on the Lockpick harness. Cover and insulate remaining loose end of blue wire left in factory connector and leave disconnected.



OPERATION

To activate the GM FIM LOCKPICK, press the MUTE (VOICE) button on your steering wheel (4) four times within 4 seconds as demonstrated below. Text with menus and options will appear on your instrument panel.



The menus of the Lockpick are controlled using your steering wheel NEXT UP ▲ and NEXT DOWN ▼ buttons to scroll up and down through the Lockpick menus.



Select any item or option using the SEEK ► button. You may also turn off any function without navigating through the text menus by simply pressing the MUTE button 2x.



The text will remain on your instrument panel for approximately 10 seconds after your last Lockpick operation. You may turn it off immediately by pressing the MUTE button 4x. When activated, the Lockpick text will always return to last function allowing quick operation for frequently used options.

A complete list of text and options for the GEN 6 are listed below:

**LOCKPICK
SCROLL FOR MENUS**

Initial display on instrument panel. Press steering wheel ▲ and ▼ to view primary menus.

**NAV IN MOTION
PRESS > TO TURN ON**

NAV input override will automatically time out after 60 seconds when activated.

**DVD IN MOTION
PRESS > TO TURN ON**

DVD override activation has no time limit. You can turn it off manually or it will reset to off when the car is taken out of Drive or turned off.

**VIEW REAR CAM
PRESS > TO TURN ON**

Activates Rear camera (factory or aftermarket)t. Camera must be powered by the Lockpick for this function. See installation options. (step 3)

**VIEW FRONT CAM
PRESS > TO TURN ON**

Activates Front camera if installed. Camera must be powered by the GEN 6 for this function.

**SOFTWARE REVISION
1.XXXXXX**

This displays the current software revision. The GEN 6 can be updated by the user via USB when desired.

ADDITIONAL OPTIONS

Select this option to modify GEN 6 operations to match your vehicle or desires

**AUTO REAR CAM
PRESS > FOR OFF**

Select OFF if you do not want the screen to switch to a rear camera while in reverse. Default is ON.

FRONT CAM CONFIG

If you want your installed front camera to turn on automatically at slow speeds, select 1 of the 2 following options

**AUTO FRONT CAM 1
PRESS > TO TURN ON**

CAM 1 will not display a front camera immediately after shifting from Reverse to Drive

**AUTO FRONT CAM 2
PRESS > TO TURN ON**

CAM 2 will immediately toggle between rear cam and front cam

EXIT

Exits FRONT CAM CONFIG and returns user to the top menu

**DEALER MODE
PRESS > TO TURN ON**

DEALER MODE ON blocks DVD in motion. NAV in motion and all camera functions are permitted.

EXIT

Exits **ADDITIONAL OPTIONS** and returns user to the top menu.

OVERRIDE CONFIG

>

Select this option to modify the method for DVD and NAV override. These modes allow the GEN 6 to operate in a variety of vehicles

**OVERRIDE MODE 1
SELECTED**

MODE 1 is the default DVD and NAV override, compatible with most vehicles.

**OVERRIDE MODE 2
PRESS > TO TURN ON**

Override **MODE 2** is used for many GMC and Acadia models

**OVERRIDE MODE 3
PRESS > TO TURN ON**

Override **MODE 3** is used for Cadillac applications where the user wants to press a button before DVD override

**OVERRIDE MODE 4
PRESS > TO TURN ON**

Override **MODE 4** provides an automatic DVD override without button presses for Cadillac and early 2007 GM radios

EXIT

Exits **OVERRIDE CONFIG** and returns user to the top menu.

The FIM Lockpick text is viewed on the instrument panel and is compatible with ONSTAR and warning messages. If a door is opened or a vehicle fault occurs while the Lockpick text is on the screen, the Lockpick allows the OEM messages to have priority. Also, during the viewing of the Lockpick text, or while scrolling through the Lockpick menus, the vehicle may have moments when the viewing of the Lockpick text is not allowed and the Lockpick text will not immediately appear or may flash once before staying on. This is normal and is part of the design.

Immediately after the vehicle is turned on, the radio may download large amounts of information from XM radio services. During these first moments, various communication systems in the vehicle are at capacity and the Lockpick does not interfere with this process. Therefore, for best results allow approximately 30 seconds after starting the car before activating and accessing the Lockpick instrument panel text.

****During the time that you are using the 60 second NAV IN MOTION feature to input an address, active map tracking is not occurring (if you switch back to the map, the map will not be moving or pinpointing your exact location). Standard navigation functions will automatically return after 1 minute or you can turn off the NAV IN MOTION function using your steering wheel buttons to immediately resume normal nav operation. Also, if you are using OVERRIDE MODE 1 or 2, the Lockpick needs to block navigation tracking when you activate the DVD IN MOTION function. Simply turn off DVD IN MOTION if you switch back to the map during DVD play for normal operation.**



(make sure module is also connected to Lockpick harness and vehicle)

Your Lockpick interface includes the ability to be updated via a USB connection to a PC. Located on your Lockpick module is a common mini USB jack which can be connected to the USB jack on a laptop computer using a standard USB mini to USB connection cable . These cables are the same ones used to connect most camaras/camcorder/phones, etc. to a computer and are available in virtually all electronic departments.

A software program is available for download and installation on our website at www.coastaletech.com/usbupdate.htm Download the application software and save it to your computer. Open the folder and select the SETUP file to install the FIRMWARE UPDATER program on your computer. When prompted, install the USB drivers included in the UPDATER software. On our website we provide updates and changes that will use the FIRMWARE UPDATER program to allow simple updates to your Lockpick module.

To perform an update to your module, download and save the desired Lockpick update from our website. Make sure the module is plugged into the Lockpick harness and connected to your vehicle with the key off. Plug in the USB cable to the Lockpick module and your computer. Wait while your computer recognizes the new device, then open the FIRMWARE UPDATER program on your computer and when prompted, browse to the location you saved the desired update. Start the update as directed in the software and do not stop the process once begun. After completion, disconnect the USB cable and start the car to use and explore the installed firmware changes.

ENJOY YOUR LOCKPICK!

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