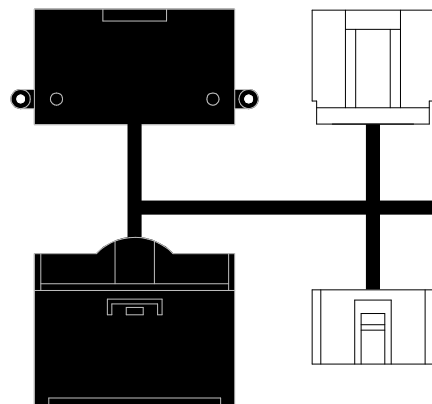


UNPLUG ORIGINAL RADIO
CONNECTORS THEN PLUG IN HERE

PLUG AND PLAY
NO OTHER CONNECTIONS ARE
NECESSARY FOR OVERRIDE FEATURES



CONNECT USB CABLE HERE
FOR FUTURE UPDATES

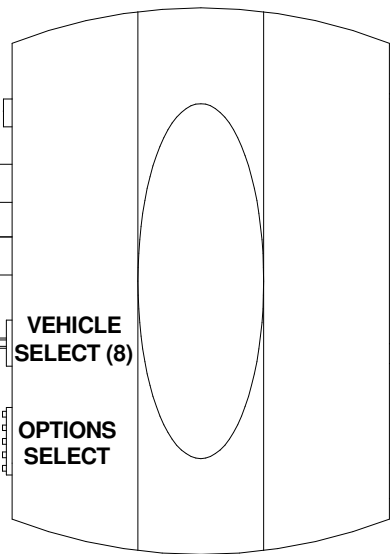
CONNECT CAMERA(S) OR THE VIDEO(S) OF YOUR CHOICE

AFTERMARKET FRONT
CAMERA VIDEO CONNECT HERE

FRONT POWER TO LOCKPICK
RED W/BLACK STRIPE WIRE
TO LOCKPICK BLACK GROUND WIRE

AFTERMARKET BABY OR AUX
CAMERA VIDEO CONNECT HERE

BABY/AUX POWER TO LOCKPICK
RED W/BLACK STRIPE WIRE
TO LOCKPICK BLACK GROUND WIRE



OPTIONAL POWER OUTPUTS
FOR CAMERA(S) OR ACCESSORIES
IDENTIFIED BY COLOR
AND PRINTING ON WIRE

ACCESSORY 12V POWER OUTPUT

CONSTANT 12V OUTPUT

GROUND FOR ALL
AFTERMARKET CAMERAS

REVERSE CAM ORANGE/BLACK
12V POWER OUTPUT

BABY/FRONT/AUX CAM
RED BLACK
12V POWER OUTPUT

COMMUNICATION
OPTIONS
ALL UP

GM2 FIM LOCKPICK™ INSTALLATION OPTIONS

Coastal Electronic Technologies, Inc.

Freedom In Motion

GM 2 Lockpick™

Thank you for your purchase of the Coastal Electronic Technologies, Inc. GM 2 FREEDOM IN MOTION LOCKPICK. The GM 2 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, Aux or rear camera video and 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 the radio trim panel and radio to expose the rear connectors.
2. Unplug factory connectors from radio and then plug them into Lockpick harness connectors.
3. Plug in Lockpick harness connectors to radio.
4. Set Lockpick module controls and switches to proper configuration and then plug into harness.
5. Connect camera power and ground if installing an aftermarket system.
6. 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 late model GM models and actual radio removal procedures may differ slightly from the guide provided here. Consult your local stereo shop or dealer if you require additional assistance.

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.



Remove the radio bezel, with a screwdriver or panel removal tool as shown above. It is held in with spring clips around the edges and will pop free when lifted.



Unscrew the 4 bolts holding the radio along with the bolts holding the control assemblies below it.



Pull the control assemblies out slightly and then pull the radio partially out to expose the connectors behind it. This is where we will plug in the Lockpick harness.



Locate the large black connector pictured and unplug it. To release and unplug the connector, press down on the center of the locking bar and rotate it outward. This will automatically push the connector out of the radio and free it. To insert the connector, start with the locking bar opened and insert it partially into the opening. Then rotate the locking bar closed. As you rotate the locking bar, it will automatically pull the connector in and lock it in place. Unplug the factory connector from the radio and plug it into the matching female Lockpick harness connector. Then plug the male Lockpick harness connector back into the previous radio location.



Next, locate the gray connector on the radio pictured above. Unplug the factory connector and plug it into the matching female connector on the Lockpick harness. Then plug the male Lockpick harness connector back into the previous radio location.

1. 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.

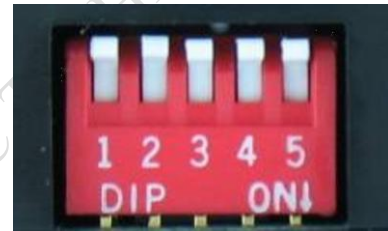
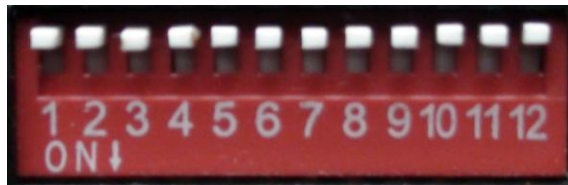
YELLOW – 12V constant battery power output

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)

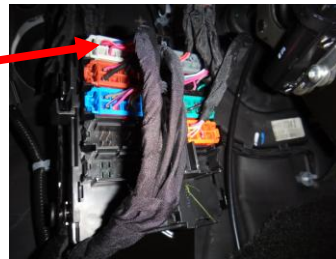
RED W/BLACK STRIPE – 12V second camera power output (use this as the power source for a second or front view camera)

2. 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.

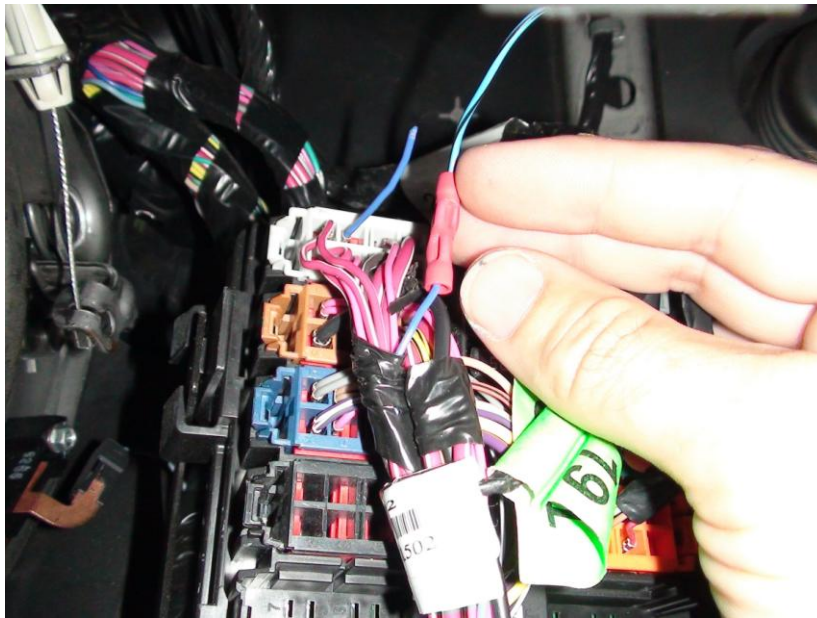


PLACE ROTARY SWITCH IN POSITION 8 AND ALL DIP SWITCHES UP

3. **Optional - If you have a FACTORY REAR VIEW CAMERA and would like to be able to view and control it when in DRIVE**, locate the **ORANGE W/BLACK STRIPE** - 12V REVERSE wire labeled in your Lockpick harness. A crimp connector is already attached for your convenience.



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 above and unplug it. 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.



Detail of optional factory rear camera control connection

OPERATION

To activate the GM 2 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 GM Lockpick 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/NAV OVERRIDE
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). 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 video if installed. Camera must be powered by the Lockpick and video connected to module for this function. See Installation Options diagram.

**VIEW AUX
PRESS > TO TURN ON**

Activates Aux video input. Video must be connected to Aux input on module for this function. See Installation Options diagram.

**SOFTWARE REVISION
1.XXXXXX**

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

ADDITIONAL OPTIONS

Select this option to modify Lockpick 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 Lockpick to operate in a variety of vehicles

VERRIDE MODE 1 SELECTED	<i>MODE 1 is the default DVD and NAV override, compatible with most vehicles. This is the correct mode for the GM 2.</i>
VERRIDE MODE 2 PRESS > TO TURN ON	<i>Not used for this application.</i>
VERRIDE MODE 3 PRESS > TO TURN ON	<i>Not used for this application.</i>
VERRIDE MODE 4 PRESS > TO TURN ON	<i>Not used for this application.</i>
VERRIDE MODE 5 PRESS > TO TURN ON	<i>Not used for this application.</i>
VERRIDE MODE 6 PRESS > TO TURN ON	<i>Not used for this application.</i>
EXIT	<i>Exits VERRIDE CONFIG and returns user to the top menu.</i>

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 **VERRIDE** features for NAV/DVD or just for NAV input, active map tracking is not occurring (if you switch back to the map, the map will not be moving or pinpointing your exact location). The override function will automatically time out after 1 minute if you have only activated NAV IN MOTION or you can turn off the NAV IN MOTION function using your steering wheel buttons to immediately resume normal nav operation. The NAV/DVD override feature does not automatically time out, allowing extended use during movie play. It will automatically turn off when you put the car in Park or turn off the key or you may use your steering wheel buttons to turn it off at any time and restore active map tracking.***

It takes your navigation system a few seconds to relocate you after the Lockpick override feature is turned off. Allow up to 10 seconds before relying on it to pinpoint your location.

USB UPDATING



(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 cameras/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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