

Coastal Electronic Technologies, Inc.

GM LOCKPICK GEN 3

Installation Instructions

Thank you for your purchase of the Coastal Electronic Technologies, Inc. GM LOCKPICK. After installation, the GM LOCKPICK will allow continuous operation of the AUX input video features of your navigation screen (vehicle must have a VIDEO AUX input jack in the console - small audio jack in front of screen is not a video AUX input), and if your screen is capable of playing DVD movies, the GM LOCKPICK will allow continuous operation of the DVD player when selected.

If you do not have an AUX input jack for video or DVD play capability, the GM LOCKPICK is equipped with a video input enabled by simple switch settings. (See below for video input programming requirements)

The GM LOCKPICK will also allow the user to unblock on command, navigation features locked when in motion and various functions locked in XM and CD player modes. This includes address entry and points of interest searching, along with radio controls for XM category, CD folders etc., all which are blocked while in motion.

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. Please adhere to all driving laws in your state. Installation and / or use of this product implies and signifies user acceptance of this term of use.

Installation

Start with the car and radio turned off. The GM 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. Slide the blue locking tabs on the top of the connectors back before attempting to insert the plug fully into the radio.

Next, determine the switch setting you desire for your installation. Next, determine the switch setting you desire for your installation. There are several modes of operation available for your GM LOCKPICK depending on the vehicle year, options and required functions. Examples of each are explained and demonstrated in this document.

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 photos have been provided on the CoastalEtech.com website to provide you assistance.

Installation process for standard GM vehicles is available at <http://www.coastaletech.com/gmlockpick1.htm>.

Cadillac Escalade installation is provided at <http://www.coastaletech.com/gmlockpick2.htm>

Video unblocking operations can be viewed at <http://www.coastaletech.com/GMCAM.htm>

NAV and radio unblocking operations can be viewed at <http://www.coastaletech.com/gmlockpick3.htm>

Rear view camera programming procedures can be viewed at <http://www.coastaletech.com/CAMPROG.htm>

Quick Install Checklist:

- Remove radio trim and unbolt radio
- Plug in black and brown connectors supplied to matching connectors in back of radio
- Plug in aftermarket video if desired
- Set dip switches on Lockpick. Note: Lockpick must be unplugged to alter switch settings.
- Plug Lockpick into harness and test DVD/AUX and/or EXT video with vehicle in Drive
 1. Press mute 4x to unlock video on vehicles manufactured after 10/06
 2. Press window lockout 4x to unlock nav and xm blocks
 3. Press window lockout 1x and then mute 4x to engage Ext Video (requires factory camera or camera programming - <http://www.coastaletech.com/CAMPROG.htm>)
 4. Press window lockout 1x to end any function
- Reassemble

Included in your GM LOCKPICK harnesses are easy connections for:

NOTE: The connections for power, ground, accessory power, video are not necessary for the operation of the standard LOCKPICK functions (the unit is full plug and play for DVD, AUX, and NAV unblock) and are provided as a BONUS for you to use when connecting any additional accessories or video sources.

1. Constant battery 12V power (YELLOW)
2. Ground (GRAY)
3. ******STANDARD RCA video connection****** - An important feature of your LOCKPICK is the ability to easily input video from additional video sources (rear, front, baby cam, DVD, video iPOD, ZUNE, etc. or as a video input for vehicles not equipped with factory DVD play or video AUX input capability) This input is dependent upon the presence of a factory rear view camera or, the option for factory rear view camera can easily be turned on at your dealership. **If your vehicle is not equipped with a factory rear view camera and you desire to use the video input provided by the LOCKPICK harness, programming instruction for your dealer are available at <http://www.coastatech.com/CAMPROG.htm> as an example.**
 - Your GM Lockpick has a switch setting (2) to allow control of the video input supplied with your Lockpick harness. If you place switch 2 in the down position, simple button presses will turn on or off the video connected, and display it on your factory screen. This feature can be turned off if external video will not be used. (see above for note regarding factory programming required for video enable).
 - If you have the factory camera programming enabled, but do not plan to use a rear view camera, the GM LOCKPICK can prevent the screen from blanking during reverse operation. Set dip switch 3 for NO REAR VIEW CAMERA PRESENT and your screen will not blank during reverse, even if it has been updated for reverse camera operation. This allows you to use the video source provided by the LOCKPICK for other purposes and not have the screen search for a rear view camera during reverse. If you have a factory camera or will be adding an aftermarket reverse camera, place the switch in the UP position to allow the screen to automatically switch to rear camera view while in reverse.
4. Accessory ignition Switched 12V power (RED)
 - The switched ignition 12V source (ACC) RED wire, will turn off when the car is turned off. This is useful to allow the installation of aftermarket accessories (DVD, radar detector, etc) without worrying that they may run down the vehicle battery when the car is turned off. It may be connected to your aftermarket Bluetooth kit as an accessory power connection. This output is capable of 2.5 amps.
 - **If the CAM VIDEO FUNCTION (Modes 2, 4, 6, or 8) is enabled,** the ACC power provided by the RED wire in your harness will turn off while the car is in reverse and for approximately 10 seconds afterward. This allows you to connect additional cameras, DVD's, etc. to the provided video connector and not have the video interfere with factory reverse camera installations. Use the ACC power provided by the Lockpick and your video device will be powered off during reverse operation.
 - Aftermarket rear view cameras should be powered by the reverse tail light. Connect the video to the connector provided by your Lockpick harness and you are ready to go. You could also connect additional video from a front, baby cam, or any external video source powered by the ACC power connection provided by the LOCKPICK without interference using a "Y" harness on the provided video input. Your secondary video source will turn off while the car is in reverse preventing interference from simultaneous video signals.

*****NOTE*****

- A. Set the switch setting desired before plugging the LOCKPICK box into the included harness. If you wish to change the switch setting after plugging in the controller, the car and radio must be off, and the box unplugged first. Then change the switch setting and plug it back in.
- B. If you wish to utilize the LOCKPICK supplied video connection, the vehicle must be equipped with a factory rear view camera, or have the rear view camera option enabled by your GM service center. This is a relatively simple update procedure in non-equipped vehicles and will activate the video input provided by the LOCKPICK (See <http://www.coastatech.com/CAMPROG.htm> for example.)
- C. The LOCKPICK cannot turn on a factory rear view camera at times other than in reverse. It will allow additional cameras to be installed and controlled in parallel with a factory camera.
- D. **Vehicles manufactured after 10/06 require switch 1 to be in down position (mode 4). Vehicles manufactured after 10/06 may use mode 4 for automatic unlock of DVD and AUX input jacks**

Manual functions require button press (MUTE or WINDOW LOCKOUT – see operation instructions)

DVD/AUX/CAM LOCKPICK SWITCH SETTING MODES

LOCKPICK SUPPLIED VIDEO REQUIRES FACTORY CAMERA OR FACTORY CAMERA PROGRAMMING ENABLED BY DEALER



1. MANUAL OPERATION OF DVD/AUX JACK UNLOCK

SWITCH 1 UP REQUIRES USER PRESS MUTE 4X TO MANUALLY UNLOCK DVD OR AUX INPUT JACK VIDEO
SWITCH 1 UP MANUAL FEATURE AVAILABLE FOR VEHICLES MANUFACTURED BEFORE 10/06 ONLY



2. VIDEO INPUT CONTROL ENABLED FOR VEHICLES WITH REAR VIEW CAMERA

SET SWITCH 2 DOWN IN ANY MODE TO ENABLE CONTROL OF LOCKPICK SUPPLIED VIDEO INPUT



3. VIDEO INPUT CONTROL ENABLED WITHOUT REAR VIEW CAMERA PRESENT

SET SWITCH 3 DOWN IN ANY MODE TO PREVENT AUTOMATIC REVERSE CAMERA VIEW



4. ADVANCED VIDEO UNLOCK

FOR VEHICLES MANUFACTURED BEFORE 10/06 – THIS WILL AUTOMATICALLY UNBLOCK DVD AND AUX VIDEO

SWITCH 1 DOWN IS REQUIRED SETTING FOR VEHICLES MANUFACTURED AFTER 10/06

IN VEHICLES MANUFACTURED AFTER 10/06, LOCKPICK WILL AUTOMATICALLY UNLOCK DVD AND AUX INPUT VIDEO WHILE STOPPED. TO ENABLE VIDEO WHILE MOVING FOR THESE FUNCTIONS, PRESS MUTE 4X



5. DEFAULT SETTING

THIS SETTING PROVIDES ADVANCED VIDEO UNLOCK FEATURES AND ENABLES CONTROL OF SUPPLIED VIDEO INPUT.

SET SWITCH 3 DOWN IN ADDITION IF VEHICLE WILL NOT HAVE A REAR VIEW CAMERA PRESENT



6. CAMERA UNLOCK ONLY

BLOCKS NAV ADDRESS INPUT, DVD AND AUX VIDEO IN MOTION
LOCKPICK SUPPLIED VIDEO INPUT IS ENABLED

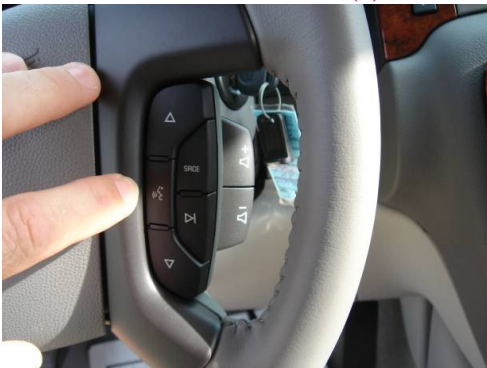
GM LOCKPICK OPERATION INSTRUCTIONS

The **GM LOCKPICK** will operate to unlock video on the front screen from your console video AUX input jack (small jack on front of radio is not a video input), or from the front factory DVD player if equipped. *If your car does not have DVD play capability or AUX jacks, the LOCKPICK cannot create these functions for you.* The navigation and radio restrictions for address entry, points of interest, XM categories, CD folder, etc. are easily unlocked using factory button presses. In addition, the LOCKPICK can turn on and control a separate video input which you can use for a rear view camera, front cam, baby cam, iPod, DVD etc. All functions are controlled with either the MUTE button on your steering wheel, the WINDOW LOCKOUT button on your door, or a combination of both.

Your LOCKPICK can be configured for several different “modes” of video operation depending on vehicle type, manufacture date or desired functions. For some vehicles, DVD and AUX input video can be configured for automatic unblocking. In this mode, DVD and AUX input video is always unblocked allowing continuous viewing in DRIVE without any button presses. Note: Set the programming mode before plugging the controller into the harness.

You may desire, or your application may require, a button press to activate the video functions of your LOCKPICK. To enable video viewing in manual modes, while in DRIVE, press the MUTE button on your steering wheel four (4) times within 6 seconds. Once unblocked, video will be viewable on the front screen for the entire duration of your trip or until you turn the function OFF. **To turn the video OFF and return to standard blocked operation, press the WINDOW LOCKOUT button on your door one (1) time.** It's as simple as that to have full control of the video on your front screen.

The GM LOCKPICK will allow all other blocked functions of the navigation radio to be unlocked while in motion including address entry, points of interest, XM category scrolling, CD information etc. To enable any blocked nav/radio function, press the WINDOW LOCKOUT button on your door four (4) times within 6 seconds. For your convenience, the unlock function will automatically time out after approximately 60 seconds, or you may **Press the driver side window lockout button one (1) time to immediately end the unlock.**



PRESS MUTE BUTTON 4 TIMES TO UNLOCK AUX IN OR DVD VIDEO IN MANUAL MODE SETTINGS – PRESS WINDOW LOCKOUT FIRST TO TURN ON CAMERA OR OTHER VIDEO



PRESS WINDOW LOCKOUT BUTTON 4 TIMES TO UNLOCK NAV/RADIO BLOCKS – PRESS 1 TIME TO TURN OFF CURRENT LOCKPICK OPERATION (NAV, VIDEO, or CAM)

The GM LOCKPICK can also turn on an additional video input to your front screen if desired. This can be used for camera input (rear, front, side, baby) or as an input for other video devices. This function is only available to vehicles which have a rear view camera or the option enabled on their vehicle (this option can be added by your dealership within a few minutes if you don't have a camera). **To turn on and activate the CAMERA video function, press the WINDOW LOCKOUT button one (1) time and then within 6 seconds, Press the MUTE button (4) times.** Just like that, the video from your connected device is viewable on your front screen. **To turn it OFF, press the WINDOW LOCKOUT button one (1) time.** If your vehicle is equipped with a factory rear view camera, turn off your second video source while in reverse so as not to mix signals. Your LOCKPICK is equipped to do this automatically if you connect the power of your video device to the ACC power provided by your LOCKPICK harness.

NOTE: After using the NAV/RADIO unblock to enter an address, etc., the navigation system will require a moment to reposition the car on the screen. It is recommended to turn the function OFF using the WINDOW LOCKOUT button after any use to decrease the amount of time needed to reposition. Also, activating DVD and AUX input video viewing on the front screen will disable navigation system tracking while enabled on some vehicles. **To restore active map tracking, simply turn the video function OFF using the WINDOW LOCKOUT button (one press).** The GM LOCKPICK is compatible with ONSTAR equipped vehicles without error and does not affect navigation systems when not in use.