

INTRODUCING THE GMX-320 LOCKPICK

MULTIMEDIA GMLAN INTERFACE



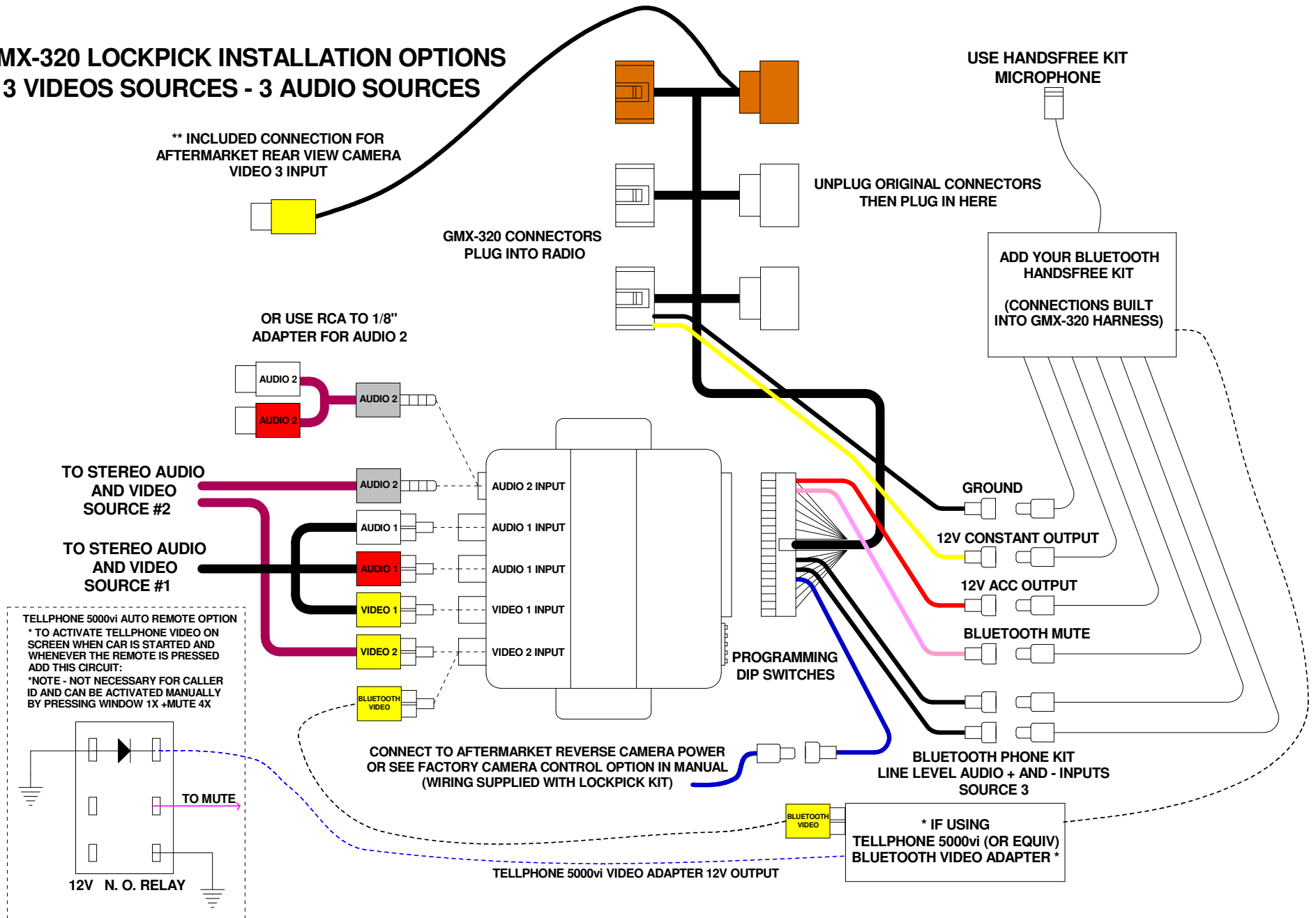
- Now standard with the ability to turn on and control FRONT, REAR, LEFT and RIGHT CAMERAS
- Fully automatic with turn signal, speed and gear activation
- Manually turn on individual cameras
- Plug in DVD, iPod, computer, VIDEO and AUDIO to new 2007/2008 GM NAV radios with RCA connections directly on the interface
- Picture and sound through factory system including BOSE
- No need to take the radio apart or cut and splice wires
- Factory connectors
- Enables factory DVD and AUX video input while in motion
- Enables NAV address input while in motion
- Restores XM category and station scrolling
- Built in ONSTAR activation for use with aftermarket Bluetooth integration kits – even advanced VIDEO out Bluetooth kits
- Turns on factory REVERSE camera even in DRIVE
- No extra switches or wiring
- Uses factory steering wheel buttons
- Advanced features can be enabled or blocked depending on your application needs with simple dip switch settings on the interface
- 20 minute plug-in installation - REALLY

****There is NOTHING like the GMX-320 multimedia interface *****

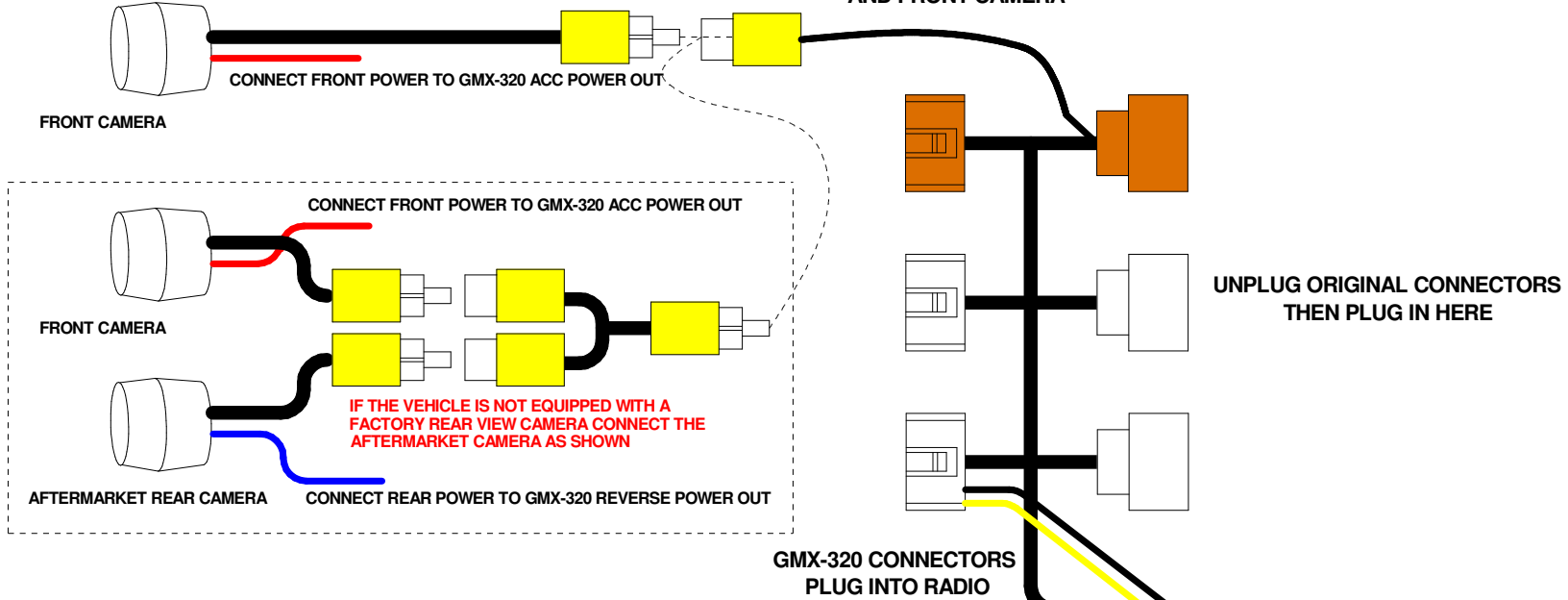
AVAILABLE NOW!!

GMX-320 LOCKPICK INSTALLATION OPTIONS

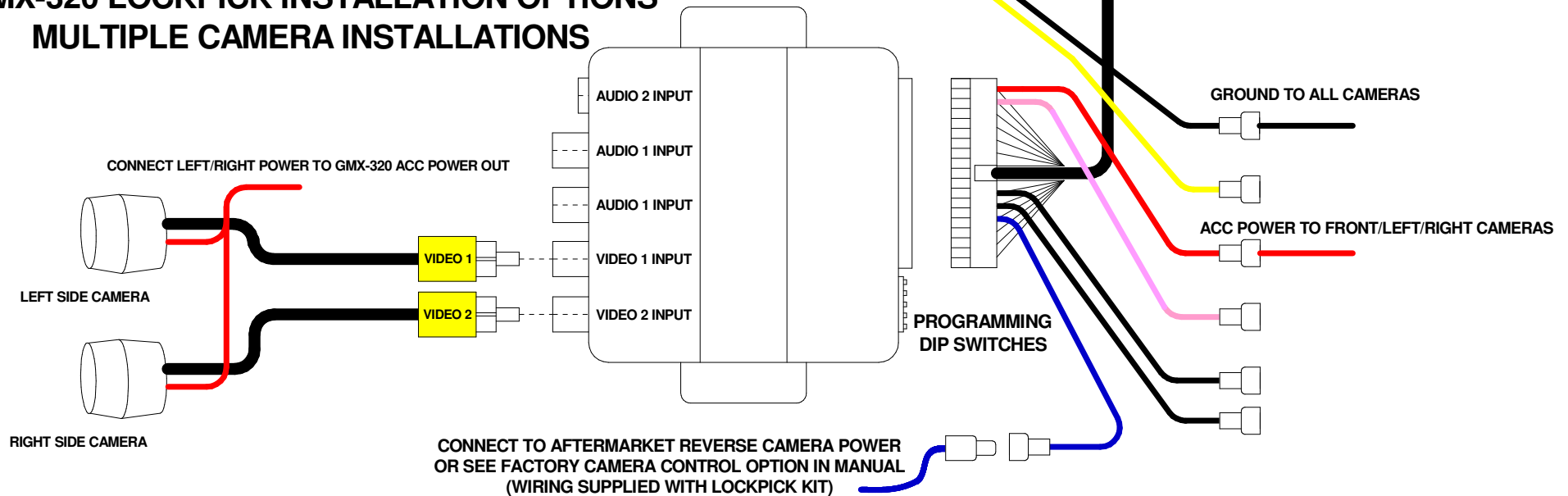
3 VIDEOS SOURCES - 3 AUDIO SOURCES



**** INCLUDED CONNECTION FOR
AFTERMARKET REAR VIEW CAMERA
AND FRONT CAMERA**



GMX-320 LOCKPICK INSTALLATION OPTIONS MULTIPLE CAMERA INSTALLATIONS



Coastal Electronic Technologies, Inc.

GM LOCKPICK GMX-320 REV 1.03

Installation and Operation Instructions

Thank you for your purchase of the Coastal Electronic Technologies, Inc. GM LOCKPICK GMX-320. The GMX-320 Lockpick has many features and capabilities to unlock and allow full use of your GM navigation screen. This can include:

- The ability to input addresses, points of interest, etc. while in motion.
- You can also enjoy full use of your factory DVD player and Aux input jacks (if equipped), even while in motion if you desire.
- Two video inputs are included along with stereo audio jacks for both.
- The option for full use of your factory REAR VIEW CAMERA, even while in Park or Drive
- An automatic audio input for use with an aftermarket Bluetooth kit for simple installations
- An automatic connection for a video Bluetooth kit with audio and video inputs for your screen
- Accessory Power output for connection of additional accessories
- Camera Power output for full automatic control of an AFTERMARKET REAR VIEW CAMERA
- Automatic control of up to 4 cameras including a front cam at low speeds, rear cam, left turn cam, and a right turn cam. These cameras can even be turned on manually and viewed while in Drive and in motion.
- Simplified installation for the addition of factory navigation radios in vehicles with basic radios.
- AND MORE.....

This manual will document in detail, the many functions of the GMX-320 and how to properly set the programming switches to your desired operation. Installation diagrams are included to guide you in various connection strategies.

The GMX-320 is plug and play for unblocking of DVD/AUX/NAV/DUAL VIDEO AND DUAL AUDIO INPUT. Factory Camera control for use while in DRIVE requires the simple connection of a single wire supplied with your kit and multiple camera installations are only a single switch setting on the GMX-320
THE LOCKPICK DOES THE REST!

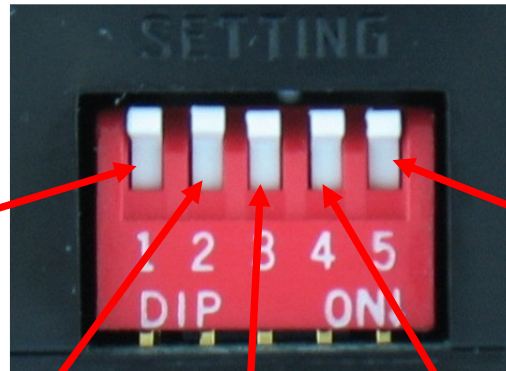
NOTE: TO USE THE VIDEO AND CAMERA CONNECTIONS AVAILABLE ON THE GMX-320 LOCKPICK, YOUR VEHICLE MUST HAVE A FACTORY REAR VIEW CAMERA INSTALLED OR MUST HAVE THE RADIO ENABLED FOR THE REAR VIEW CAMERA OPTION. THIS IS COMMONLY PERFORMED WHEN INSTALLING AFTERMARKET OR FACTORY CAMERAS AT THE DEALERSHIP. STANDARD CAMERA PROGRAMMING INSTRUCTIONS ARE AVAILABLE ON THE WEBSITE AND MAY BE USED BY YOUR DEALER AS AN EXAMPLE IF THEY ARE NOT FAMILIAR WITH THE PROCESS: <http://www.coastaletech.com/CAMPROG.htm> .

ALSO, SO, IF YOU HAVE ADDED A NAVIGATION RADIO TO A NON-NAV VEHICLE YOU MAY OMIT THE COMPLICATED INSTALLATION OF VEHICLE SPEED SIGNALS NORMALLY NECESSARY FOR THE PROPER INSTALLATION PROCESS. THE GMX-320 WILL PROPERLY PROVIDE THE NECESSARY INFORMATION FOR YOUR UPGRADED RADIO.

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.

OK, let's get started. On your GMX-320 control box are switch settings which allow you to program your Lockpick for the features you would like to enable. The diagram below will detail the function of each. More than one switch may be turned on at a time to create the feature list you desire. Default setting when shipped is 1 and 2 down. This enables full unlock of DVD, AUX, NAV, the operation of 2 VIDEO/AUDIO inputs, and on demand rear view camera operation. Additionally, switches 3 and 5 may be set down if no rear view camera will be present or if the Telephone 5000vi video Bluetooth kit will be attached. All operations of the GMX-320 are begun with a press of the steering wheel mute button, the window lockout button, or a combination.



ALWAYS place switch 1 DOWN if your vehicle was manufactured after 10/06 (date on door jam) for DVD/AUX unblock. If manufactured before 10/06 and switch 1 is DOWN, DVD and AUX is automatically unblocked without steering wheel MUTE button presses.

Place switch 2 DOWN for standard audio/video use provided by the GMX-320.

Place switch 2 UP FOR FRONT, REAR, LEFT AND RIGHT AUTOMATIC CAMERA CONTROL!!

Place switch 3 DOWN if you DO NOT want the display to switch to a rear camera view while in reverse. This allows the radio to be reflashed for camera and video input use, but prevents the display from blanking in reverse if no camera is attached.

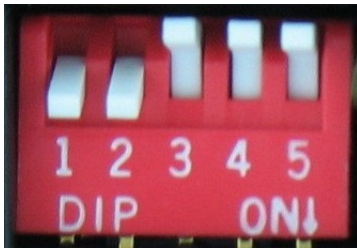
Place switch 5 DOWN if you would like to enable Video Bluetooth kit support. With this setting DOWN, activation of the Bluetooth Mute wire on the wiring harness will turn on ONSTAR audio and automatically switch the display to Video input 2 of the Lockpick controller box. Default video source when selected using window lockout/mute combination will become VIDEO 2 instead of VIDEO 1

Overrides BLOCKED

Place only switch 2 and 4 DOWN to BLOCK DVD, AUX, and NAV use while in motion. This allows Bluetooth kit installations and rear camera control . In addition, switch 5 may be down if the Bluetooth kit is video capable and switch 2 can be moved to the up position to enable multiple camera installations.

COMMON SWITCH SETTINGS AND COMBINATIONS

1.



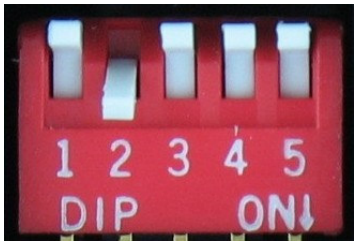
DEFAULT SHIPPED SETTING – with switch 1 DOWN, DVD and AUX input video in motion is automatically enabled without any mute button presses in vehicles manufactured before 10/06.

Mute button **MUST BE PRESSED 4 TIMES** to unblock DVD/AUX video in motion in vehicles manufactured after 10/06. These vehicles require switch 1 DOWN as shown and need the advanced unblocking that this setting provides.

NAV unblocking is activated when pressing the window lockout 4x's. Return to active map tracking by pressing window lockout 1x.

Switch 2 Down is for vehicles without front and side camera installations. **2 UP will turn on multiple automatic camera control.**

2.



Vehicles manufactured **before 10/06** may place switch 1 UP to require the Mute button to be pressed 4 times before the DVD and factory AUX video is unblocked. This may be desired instead of automatic unblocking in some installations.

Place switch 2 UP only if you will be installing multiple cameras

- Add switch 3 DOWN if the rear view camera option has been activated in your radio but you will not be installing a rear view camera.
- Place switch 2 in the UP position if you intend to install multiple cameras and use the GMX-320 to control them.

****Note (switch 2 UP) :** When using the GMX-320 for DVD/AUX/NAV override and for control of multiple cameras, the video inputs on the GMX-320 module will be used for camera inputs and are not available for other video sources. If your installation includes multiple cameras and you wish to connect additional sources (video iPod, DVD, ZUNE, Computer, game etc.) the GMX-320 is designed to allow automatic switching for these sources too. The #GMX9Vi module and cable kit will allow easy connection of an additional set of 2 video sources as well as special support for factory rear view camera operations while operating multi-camera, multi-video configurations. The GMX9Vi is only necessary when multi-video input use is desired in addition to multi-camera use.

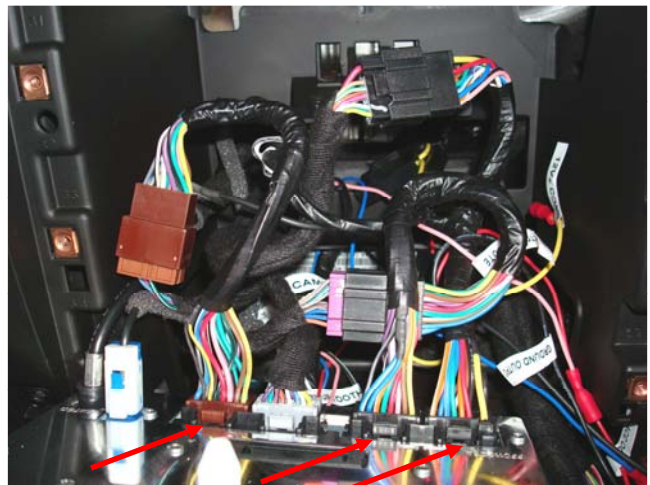
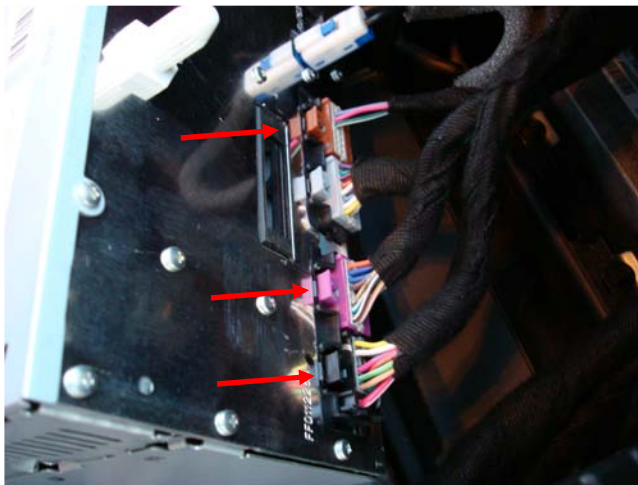
- Place switch 5 down when installing a video Bluetooth handsfree kit for automatic viewing of caller ID information when receiving a call.

*****IMPORTANT** SET SWITCH SETTINGS BEFORE PLUGGING LOCKPICK INTO THE WIRING HARNESS TO INSURE PROPER PROGRAMMING WHEN INITIALIZED***

INSTALLATION

1. **Start with the car and radio turned off.** Make sure that the radio is indeed off by opening the driver door with the key out of the ignition. If the radio is left on while unplugging and installing the harness and Lockpick, it may fail to initialize when the key is turned back on. This is remedied by reinstalling the factory connectors, waiting a couple of minutes with the car off and all doors closed. Then enter and turn on the key and radio. Now, begin step 1 again :)
2. **The GMX-320 LOCKPICK is designed with 3 simple “T” harness connectors, equipped with factory male and female connectors for direct connections to your screen.** The procedure for gaining access to the rear of the standard GM NAV radio is available for viewing at: <http://www.coastaletech.com/gmlockpick1.htm>
Cadillac Escalade panel removal is available at: <http://www.coastaletech.com/gmlockpick2.htm>

With access to the rear of the screen, unplug the matching 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 remove or insert the plugs fully into their locations.



The radio shown above is a common navigation radio found in most GM vehicles. Cadillac Escalades are slightly different in that they have the same connectors on the back of the radio but may be different colors (purple connector is black). Each connector is keyed with unique slots and cannot be inserted in the wrong location, so simply match up the correct connectors and plug them in.

3. **Route the module connector to the Lockpick,** into the slot behind the radio where the factory harness is originating and then pull the module connector around down under the plastic bar into the open area below the radio.



Pull the harness as the radio is guided back into position. Press all the connectors into the slot behind the radio as you manipulate the radio into position.

The switch settings for your Lockpick were detailed earlier and should be configured before plugging the controller into the harness. If you plug in the controller and then change switch settings, the new settings will not be programmed and improper operation will result. To reset the box if you accidentally perform switch changes while plugged in, begin with the car and radio off as described in Step 1. Unplug the Lockpick and place all switches down. Then set them to the desired setting and plug back in to lock in the programming.

4. **Plug in any video or audio desired to the GMX-320.** On your box are standard RCA connections for Video 1 and Video 2 inputs. Two stereo audio inputs are available on the controller. One set is standard RCA and the other is provided as a standard format 1/8" stereo connection. The RCA audio jacks are associated with the Video 1 jack next to them. The 1/8" audio jack is associated with the Video 2 input on the opposite side of the box. (see included wiring diagram for details)
5. **Plug in your Bluetooth handsfree kit to the GMX-320 if installing at this time.** On your harness are already attached, crimp connections for 12V Constant (battery) power, 12V ACC (ignition) power, GROUND, MUTE, and line level AUDIO + and - inputs. This greatly simplifies your installation by making all necessary connections available in one simple location. Note: If using a video Bluetooth kit such as the TellPhone 5000vi, plug the Bluetooth kit video into the Video 2 input of the GMX-320 and insure that switch 5 is in the Down position.

6. **If your car does not have a rear view camera and you would like to install one,** connections are already provided for you. As with all LOCKPICK video operations, make sure your radio has already been reprogrammed for the REAR VIEW CAMERA OPTION. An example is available for viewing at: <http://www.coastaletech.com/CAMPROG.htm>

Then, connect your reverse signal or Camera power connection of your camera to the REVERSE wire labeled in the GMX-320 harness. Plug the camera video into the Yellow video cable already present on the BROWN connector of the Lockpick wiring "T" harness for the radio. The camera is now ready for automatic reverse view and can be turned on and viewed at any other time if desired with simple button presses (see operation portion of manual)

7. **If you would like to enable full control and viewing of your FACTORY REAR VIEW CAMERA** when in DRIVE, attach the included FACTORY CAMERA OPTION wire to the REVERSE wire labeled in your GMX-320 harness. A crimp connector is already attached for your convenience. 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). Crimp the Blue wire from your kit to the blue wire on the connector. The other cut end of the wire in the factory harness should be insulated and left disconnected. Do not connect the Lockpick Blue wire without cutting the factory wire or improper operation will occur. For 2008 H2 Hummer installations, run the GMX-320 blue wire to the back of the vehicle and connect directly to the rear view camera connector blue wire. Refer to website at: <http://coastaletech.com/Hummer.htm> for install pictures. Other vehicles (Enclave, Acadia) may place the module in the rear as well. Refer to website at: <http://coastaletech.com/Acadia.htm> for installation help.

7. OPTIONAL FACTORY CAMERA LOCKPICK CONNECTION DETAIL

- Unplug connector from module under passenger seat.
- Cut blue wire
- Attach "Factory Camera Option" Blue wire to blue wire of factory connector
- Crimp completed connection and plug connector back into module
- Cover remaining loose end of blue wire left in factory harness and leave disconnected
- Anytime factory camera use is now enabled by the GMX-320



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.

8. Your GMX-320 can also automatically control a front, rear and 2 side cameras!!

If switch 2 is placed in the up position, the GMX-320 will automatically turn on a front camera while at speeds less than 7 mph, the side cameras whenever the corresponding turn signal is switched on, and the reverse camera while in reverse. This can include the factory rear view camera if step 7 is completed. Connect the power needs of the front and both side cameras to the RED ACCESSORY power wire provided by the GMX-320. Connect the power/reverse needs of an aftermarket rear view camera to the REVERSE power wire on the GMX-320, or follow step 7 if your vehicle is already equipped with a factory rear view camera. The left camera video should plug into the Video 1 input on the GMX-320 as shown in the accompanying wiring diagram, the right camera video to the Video source 2 input, and the front camera to the video connector provided on the provided Brown connector behind the radio. The factory rear view camera is already connected when plugging in the GMX-320 harness. For aftermarket rear view camera installations simultaneous with front camera installations, a video RCA "Y" connector should be placed on the provided Brown connector video input so that both the rear and front camera video will plug into the same input. No other connections are necessary as the GMX-320 will automatically detect the speed, shifter state, and turn signal use for proper operations of the various cameras. If you will not be installing a front camera, but wish to use side and rear view cameras, the front camera function can be disabled. Turn the car on and then press the DRIVER door window lockout button 4 times while in PARK. This will signal the GMX-320 that a front camera is not installed. If you wish to later turn this function on, press the window lockout button 4 times while in PARK again, otherwise the function will be locked out always.

The GMX-320 can also allow additional video and audio inputs even if the standard inputs are occupied by the enabling of multiple camera operation. Refer to the accompanying drawings for installation of the GMX9Vi kit to allow multiple cameras and the operation of additional multimedia sources.

NOTE: The wires provided outside of the factory connectors labeled 12V Constant Battery power (YELLOW), ACC Ignition power (RED), REVERSE (BLUE), MUTE (PINK), and GROUND (BLACK) are provided as a BONUS in your wiring harness for you to use when connecting additional accessories such as a Bluetooth car kit, DVD player, radar detector, camera etc., without worry that they might drain your battery when the car is turned off. The ACC wire can power up to 2.5 Amps constant. Higher loads should be connected with a relay. The REVERSE (rear view camera power) of your Lockpick can power up to 2.5 Amps also.

**** Do not attach the Constant or ACC wires directly to the vehicle wiring or ignition switch. The Lockpick is plug-and-play for standard DVD/AUX/NAV/VIDEO/AUDIO/CAMERA unblocking and does not require connections for power or ground. Connecting these Lockpick outputs to the vehicle wiring can damage the unit and cause improper operations.**

****The action and operation of the ACC and REVERSE power output wires are modified when switch 2 is UP and the GMX-320 is connected to front, side and rear cameras. For proper operation of multiple cameras which are being powered and controlled by these connections, the ACC and REVERSE power outputs of the GMX-320 should not be used for purposes other than the intended cameras when in this special multi-camera mode.**

[Be sure to consult the installation drawings included with your instructions.](#)

GM LOCKPICK OPERATION INSTRUCTIONS

1. You may desire, or your application may require, a button press to activate the DVD/AUX unblocking functions of your GMX-320 LOCKPICK (see common switch settings example 1). **To enable video viewing of your Factory DVD player or console mounted AUX input jacks, press the MUTE button on your steering wheel four (4) times within 6 seconds while in DRIVE.** 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 DVD or AUX 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 factory video on your front screen.

2. **If you wish to input addresses, points of interest, view additional XM category information, or enable any other available blocked radio function or text– all while in motion – Press the WINDOW LOCKOUT button four (4) times within 6 seconds.** When activating the Lockpick using the window lockout button, the unit is designed to automatically “time out” after approximately 60 seconds. If you need additional time after this period, simply press the window lockout button four (4) times for an additional 60 seconds. **To immediately turn OFF the unblock without waiting for the timeout process, press the WINDOW LOCKOUT BUTTON one (1) time.**

*****During the time that you are actively viewing a factory DVD or factory AUX video while in motion, OR while you are inputting an address or taking advantage of any of the other radio unblocking technology mentioned above, active map tracking is not occurring (if you switch to the map view immediately from an unblocked function, the map will not be moving or pinpointing your exact location). Touch the WINDOW LOCKOUT button one (1) time as mentioned above to immediately restore factory operation and begin map tracking again. It may take several seconds for the map to recalculate your current position.***

*****Use of the factory camera, aftermarket cameras or either of the 2 Video/Audio inputs available on the GMX-320 while in motion does not affect active map tracking.***

3. **To turn ON the factory or aftermarket rear view camera while in DRIVE, place the radio in any function other than XM mode (AM, FM, CD, DVD, AUX, etc.). Now, press the WINDOW LOCKOUT button one (1) time and then within 6 seconds, press the steering wheel MUTE button four (4) times.** The display will then change to the view from your camera. The audio from whatever source or band your radio is on will continue playing through your sound system. **To turn OFF the camera view, press the WINDOW LOCKOUT BUTTON one (1) time.** **Note: Factory Camera turn-on requires the installation of the factory camera option wire described in step 7 of the installation guide. The ignition key must be fully ON to enable the camera or extra video inputs on the GMX-320.**

4. **To turn on the video inputs of the GMX-320 and view your attached accessory, place the radio in XM mode.** Now, press the WINDOW LOCKOUT button one (1) time and then within 6 seconds, press the steering wheel MUTE button four (4) times.

- The display will immediately change to the accessory video you have connected to the **VIDEO 1** source of the GMX-320 and the sound will change to the audio connected to the source 1 stereo RCA audio inputs (unless switch 5 is down, then default is video/audio 2).
- To turn off the Video 1 picture and listen to only the source 1 audio sound, press the SEEK ► button on your radio (SEEK ▲ on Cadillac Escalade)
- To toggle back to the Video 1 picture, press the SEEK ► again. (This may be repeated as desired)
- Press SEEK ◀ (SEEK ▼ on Cadillac Escalade) to switch to the **Video 2** source and the audio from the source 2 connector
- To turn off the Video 2 picture and listen to only the source 2 audio sound, press the SEEK ◀ button on your radio
- To toggle back to the Video 2 picture, press the SEEK ◀ again. (This may be repeated as desired)

***** To turn off the Video and Audio inputs and return to standard radio operation, Press the WINDOW LOCKOUT button one (1) time. This is the method used to cancel any function of the GMX-320*****

GMX-320 OPERATION WHILE IN MULTI-CAMERA MODE

When switch 2 is in the UP position on the GMX-320 module, the interface will allow operation of multiple cameras automatically and manually. The advanced properties of the GMX-320 allow it to control and power all camera functions making an installation of this type amazingly simple.

- When the vehicle is started up and placed in **DRIVE**, the front camera is automatically activated and will display on your navigation screen a view from the front of your vehicle. As the vehicle is accelerated past 7 mph, the front view will automatically deactivate and the radio view will return to standard radio/map displays. This will occur each time the vehicle slows to below 7 mph for automatic help when parking or maneuvering in close quarters. If you wish to manually turn off the front camera view while it is on the screen, simply press the window lockout button on your door 1x and the radio will automatically return to standard radio views. *If you do not have a front camera or wish to completely disable the front camera function, Press the window lockout button 4x while in PARK. This will stop all front camera views while in DRIVE. In the future, If you add a front camera or wish to restore the front camera ability, Press the window lockout button 4x while in PARK (just as when performed to remove the function originally). This will reset the GMX-320 to allow front camera views again.*
- When the vehicle is placed in **REVERSE**, the rear camera is automatically activated and will view on the front screen. If you wish to view the rear view camera while in **DRIVE**, place the radio on AM, FM etc. (anything other than XM). Then press the window lockout button 1x followed by pressing the MUTE button on your steering wheel 4x within 6 seconds. This will activate your rear view camera and display it even if you are not in **REVERSE**. To turn off the rear view camera view, simply press the window lockout button 1x and the radio will return automatically to its standard view. If you have a factory rear view camera, make sure you have connected the BLUE reverse wire as described in step 7 of the installation process for proper GMX-320 control. **NOTE:** Some vehicles with a factory rear view camera, will require the installation of the GMX9Vi module to separate rear and front camera views due to the lingering rear view which persists after shifting to **DRIVE**. The GMX9Vi will automatically separate the camera views and display them at the proper time.
- When the vehicle's **LEFT or RIGHT turn signal** is activated, the GMX-320 will automatically switch to the appropriate side camera and display the picture on your radio. The picture will remain during the time that your turn signal is actively blinking and will automatically turn off when the turn/lane change has completed. If you wish to turn on either of the side cameras without using the turn signal, the GMX-320 can provide full manual control. Place the radio on XM and then press the window lockout button 1x followed by the MUTE button 4x within 6 seconds. This will activate the driver side camera and display the picture on the radio. If you would like to view the right camera press the SEEK ◀ button on your radio. If you would like to return to the left camera press the SEEK ▶ on your radio. You can easily switch back and forth between the side cameras using the SEEK buttons on your radio. To turn off the side camera manual viewing, press the window lockout button 1x.
- If you have added the **GMX9Vi** module and harness to allow additional multimedia inputs, you can turn on and control these inputs easily with the GMX-320. Perform the same sequence as used to turn on the vehicle side cameras (Radio on XM, press window lockout 1x then steering wheel mute 4x). This will turn on the left front camera. If you press the SEEK ▶ while viewing the left camera, it will switch off the camera and instead display the video from your alternate source #1, complete with the sound from your device through the factory sound system. If you press the SEEK ▶ again, the video will toggle back to the left camera allowing you to easily switch back and forth with each button press. If you press the SEEK ◀ button on your radio, the view will change to the right camera view on your radio. If you press the SEEK ◀ button again, the GMX-320 will switch to the alternate video/audio source #2. You can toggle the video from the #2 source in the same manner as the source #1 by repeatedly pressing the SEEK ◀. To turn off the multimedia functions and return to standard radio views and audio, press the window lockout button 1x.

Operation demonstration videos available at: <http://www.coastaletech.com/GMX320.htm>

FACTORY BUTTON ACTIVATION VIEWS

ALL LOCKPICK OVERRIDE AND VIDEO/AUDIO FUNCTIONS BEGIN WITH ONLY TWO FACTORY BUTTONS



PRESS THE MUTE BUTTON 4 TIMES TO UNLOCK DVD OR AUX IN VIDEO

****BUTTON PRESS MAY BE OMITTED IN SOME EARLY PRODUCTION VEHICLES IF DESIRED**

WHILE IN DRIVE, PRESS WINDOW LOCKOUT BUTTON 4 TIMES TO TEMPORARILY UNLOCK NAV ADDRESS INPUT, XM CATEGORY SCROLLING OR OTHER RADIO BLOCKS

**** PRESS WINDOW LOCKOUT 1X THEN MUTE 4X TO TURN ON CAMERA, VIDEO/AUDIO 1 OR VIDEO/AUDIO 2 SOURCES**

**** EXIT ANY OPERATING LOCKPICK FUNCTION BY PRESSING THE WINDOW LOCKOUT BUTTON 1 TIME**

Optional Bluetooth Kit Installation and Operation

Your GMX-320 Lockpick is already configured to allow the simple integration of an aftermarket Bluetooth Handsfree kit. Included in your wiring harness are all the power, ground and audio connections needed to connect a handsfree kit to your vehicle and listen to the sound through your car's factory sound system. There is no need to install extra speakers or cut any factory wires. Your Bluetooth handsfree kit will need a constant power source, another which turns off with the radio, ground, a mute connection, and a place for its line level audio to connect. All these are provided directly on the GMX-320 wiring harness. The advanced software in your LOCKPICK will automatically detect a phone operation in progress and will activate the ONSTAR function of your radio. The sound from your conversations will be heard through your sound system automatically and even if your radio is powered off with its power button, the sound will still be activated (just like ONSTAR). No ONSTAR functions are disabled with the GMX-320 so your factory system will operate just as before, except with the added bonus of easy integration with your cell phone. Note: The sound setting for many Bluetooth kit audio outputs may be set to a high or low level when first initialized. Avoid leaving the volume level of the Bluetooth kit low and turning up the radio ONSTAR volume to compensate as this can lead to noisy operation.

Additionally, the GMX-320 is preprogrammed to operate with the newest Video Bluetooth integration kits. These kits can display full menus, address books, caller ID, etc., and with the GMX-320, it automatically integrates this information directly onto your factory screen. To enable this programming, place switch 5 in the down position before plugging the Lockpick module into its harness. Connect the standard power, ground, and audio wires which are part of any Bluetooth kit installation. Now, plug in the video output from your video Bluetooth kit, into the Video Source 2 input of the GMX-320 module.
Note: Your Bluetooth kit may contain other outputs and control lines, but all of them are unnecessary for the GMX-320 and no other interfaces are needed. See the website at: <http://coastaletech.com/Tellphone5000demo.htm> for installation demonstrations.

Bluetooth Video Activated using the GMX-320



The following instructions are specific to the TellPhone 5000vi Video Bluetooth Kit.

When the TellPhone kit and video output module are powered up for the first time, they take about 90 seconds to initialize. Start the car up and wait before performing any functions associated with the Bluetooth kit.

After waiting 90 seconds, turn the car off and back on (crank up the engine). Begin by manually turning on the Source 2 video of the GMX-320 (Radio on XM, Press window lockout 1x, then press Mute 4x). Then follow the Bluetooth kit instructions for initially marrying the remote, setting the language, pairing the first phone, etc.. Your radio requires a couple of seconds when the car is first turned on before the GMX-320 can access the video functions so allow a brief moment before you press the buttons and turn on the video source.

All on-screen Caller ID and other incoming call info are automatically displayed when receiving a call without any button presses. Additionally, pressing the talk button for voice commands will automatically display on-screen text and prompts.

The menus, address book, contact lists etc. are easily accessed manually by turning on the Video 2 source of your Lockpick (select XM, press window lockout 1x, then mute 4x on your steering wheel). Then turn the wheel on your Tellphone remote or press the phone buttons.

The GMX-320 input to the Tellphone video will remain active along with the sound from your call for the entire duration of your call. The Tellphone kit will stop outputting text after a period time so if you would like to stop the video input to the front screen and return to the standard radio views of map, etc. simple press the window lockout button one time. The audio from your conversation will continue without the video input. To turn the video back on, just press the window lockout 1x/mute button 4x combination and your video 2 input will become active again.

Thank you for your trust in Coastal Electronic Technologies, Inc.