

# MYTOUCH LOCKPICK AIR<sup>TM</sup> INSTALLATION OPTIONS

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# Coastal Electronic Technologies, Inc.

## MyTouch LOCKPICK™ Air

Thank you for your purchase of the Coastal Electronic Technologies, Inc. MyTouch LOCKPICK AIR. The LOCKPICK AIR has many features and capabilities to unlock and allow full use of your Ford, Lincoln MyTouch radio system PLUS an enormous suite of multimedia functions including multi-camera inputs A/V inputs, and built in **WiFi capabilities for Connection and Streaming from Android Smartphone and Tablets. Apple smartphones and tablets have some restrictions for video streaming; see application notes at bottom of page.**

This is only a partial list of included features:

- The ability to use your navigation system without restrictions including the ability to input addresses, search points of interest, etc. while in motion.
- Fully enable use of factory Video/Audio input jacks in console
- Enables the camera function in your MyTouch radio with connections for up to 5 cameras. (fully compatible with vehicles already equipped with a factory rear camera)
- Automatic camera options for turn signal activation of side cameras, front camera while parking and rear or 2<sup>nd</sup> rear camera while in reverse, plus manual activation of any camera at any time.
- Full function remote control for quick and easy operations
- **WiFi connection for wireless Audio and Video Mirroring !!**
- USB update ability built in to keep your Lockpick current with changing software needs.
- Special cables and connectors for plug-in installations that are completely reversible

This manual will document in detail, the many functions of the LOCKPICK AIR and how to properly set the programming switches to your desired operation. Installation diagrams are included to guide you in various connection strategies. Please read this manual fully so that you can learn to take advantage of all of the exciting features and capabilities of the MyTouch LOCKPICK AIR.

***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.***

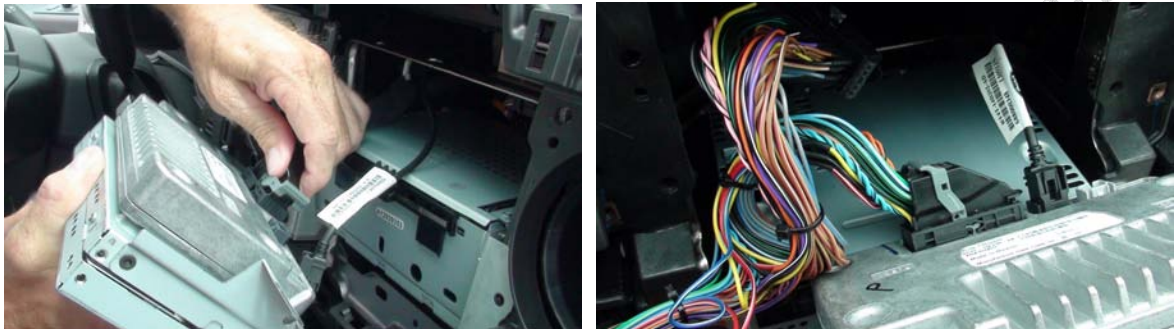
**Apple streaming note:** Apple markets a device called Apple TV which permits wireless streaming video from your iPhone/iPad to the Apple TV for viewing on your television set. Apple restricts some streaming so that only Apple TV receivers can show streaming video from these devices. The Lockpick Air will allow mirroring of your smartphone including all phone displays such as map, internet, pictures, texts, games etc. Videos recorded on your device will stream to the Lockpick however, videos downloaded from iTunes are blocked. Netflix App versions (5.0 and above) will not stream. If your device still has the older Netflix version (4.31 or below) video streaming is still possible. YouTube video streaming is also restricted to Apple TV, but Apps such as PlayTube or Crackle do allow video streaming and are free to download on iTunes.

**Android phones have no such restrictions and will connect and stream to the Lockpick Air all functions.**

## INSTALLATION

This written guide will detail the connections for the Lockpick harness and provide reference for general installation and operations. The MyTouch Lockpick Air is universal for many different Ford/Lincoln/Mercury models and individual dash disassembly is not addressed in this manual. Please consult a local stereo shop for installation assistance or view our installation videos online.

1. Remove the surrounding screen bezel panel(s) and the four screws holding the screen in place. Next, remove the screen and unplug the large connector on the back. To release the connector, press down the locking tab before lifting the locking bar. As the bar is lifted, the connector will eject.



The Lockpick harness is simple to install and consists of matching male and female connectors which are installed in-line with the original factory connection. Plug the factory connector removed earlier into the matching female Lockpick connector. Finish by plugging the male Lockpick harness connector back into the previous factory location.

2. Route Lockpick harness so that wiring is not crimped or pinched under the radio.
3. The MyTouch Lockpick Air 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 and video input from an aftermarket rear camera. **They are not necessary for a standard installation and should never be connected to your vehicle wiring.** They are provided for accessories which may connect to your Lockpick.

They include:

REAR CAMERA VIDEO INPUT – Standard RCA video input.

RED – 12V ACC power output (Limit 1 amp)

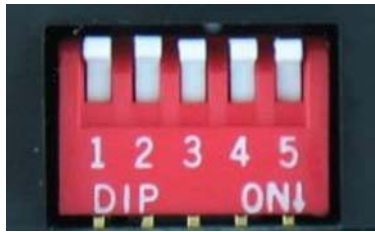
YELLOW – 12V constant power output

BLACK – Vehicle GROUND connection

ORANGE/BLACK STRIPE – 12V rear camera power output

RED/BLACK STRIPE – 12V additional camera power output (front, left, right, aux, etc.)

4. Lockpick SETUP - **Before plugging in your Lockpick**, insure that the switches and controls are properly set for your vehicle and options desired.



#### ***Option Switches***

1. Place Option Switch 1 Down to allow the Lockpick to program your screen and enable the camera input. **This is necessary for Lockpick video operations if your vehicle does not already have a factory rear camera.** (The Lockpick will not respond if 1 and 2 are down at the same time)
2. Place 2 Down if you wish to restore the vehicle screen to its original programming and remove the Lockpick. (The Lockpick will not respond if 1 and 2 are down at the same time)
3. Place 3 Down if your vehicle has a Standard (manual) transmission.
4. Place 4 in the UP position for all applications.
5. Place 5 Down to disable override features for factory A/V input and navigation input in motion.

#### ***Important!!!***

1. **Because the screen was unplugged for the Lockpick installation, when the vehicle is powered on for the first time, the screen will go through a startup reboot. It will appear as a BLACK screen for as long as 30 seconds before it restarts with a system updating message. A progress graph will then display and when it gets to the end, it will appear to hang for a few seconds. Then the standard radio views will return with normal operations.**
2. **Also, if you manipulate the option switches 1 or 2 to add or remove camera functionality to the MyFord Touch system while the radio is ON, the Screen will go BLACK as it is being updated by the Lockpick, and then it will follow the sequence above in Step 1. The process will take up to 30 seconds during which time the screen will be completely black at times. This is normal.**
3. **If a camera or video source is activated but no video is plugged into the Lockpick module, the radio screen will display a message from the Lockpick informing you that no video has been detected. Turn off the video function and insure that you have something plugged in to the correct video input on the Lockpick module for the source you are activating.**

## LOCKPICK MENU OPTIONS

The LOCKPICK AIR includes a set of comprehensive menus which are accessible in any radio mode and activated by remote control (included). This on-screen menu allows fast and convenient control of Lockpick functions and programming options.

Press the MENU button on your remote control.



The LOCKPICK AIR menu will open and display the current status of multiple options as well as allow the user to change each selection with the remote control. The menu will display with an asterisk next to each item that is activated. Override can be selected here or from the steering wheel for enabling navigation input while in motion or full use of factory A/V input jacks if equipped. The LOCKPICK AIR multimedia source is shown and if selected, will display the video on your screen with sound through your factory system. If AUX A/V is selected, it will then become the source and will display with sound through your factory sound system.

Selecting "CAMERAS" will display a selection of all camera video inputs and allow the user to select which camera view they would like to view immediately on the radio screen.



Selecting "HR OPTIONS" (headrest) will allow the user to determine which video and audio to send to an additional screen or headrest multimedia system.

Scrolling further down the menu will reveal the "ADDITIONAL OPTIONS" selection as well as Language Options (English or Spanish), and INFO for displaying current device software, hardware and serial number.

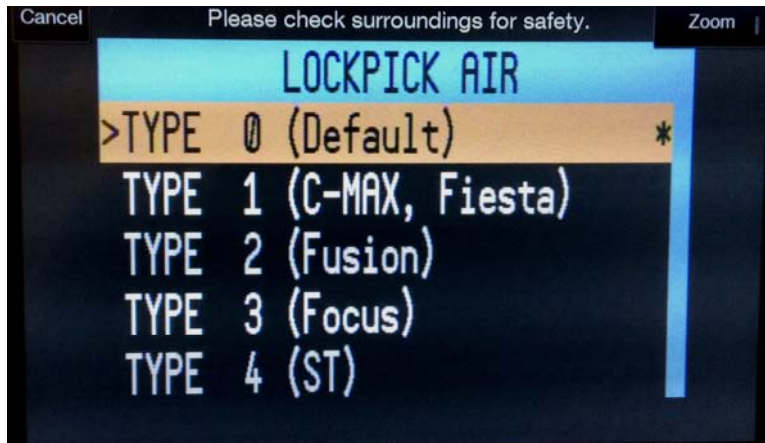


The "ADDITIONAL OPTIONS" selection allows the user to determine the desired operations of any connected camera as well as numerous additional LOCKPICK features.



Shown above, the "ADDITIONAL OPTIONS" menu allows the user to:

- Select a **REAR CAMERA** to display automatically while the vehicle is in reverse (default ON)
- Set a **2nd REAR CAMERA** to be the one seen while the vehicle is reverse
- Enable the **FRONT CAMERA** to activate automatically while the car is below 7 mph and turn off when the vehicle accelerates past 7 mph
- Enable **TURN CAMERAS** to activate automatically when the corresponding turn signal is used
- Send any **CAMERA VIDEO** which is automatically activated, to a separate screen or **HEADREST** display
- Select **whether the vehicle is equipped with FACTORY A/V JACKS**. If the vehicle has factory A/V jacks present in the console or on the dash, enable this function (default is ON). To view the Lockpick multimedia AIR or AUX A/V input on the Lockpick module, place the radio in the factory A/V mode. The Lockpick will send its video and audio through the Lockpick connector and it will be seen while in the factory AUX mode. If your vehicle does not have factory A/V jacks, turn off this selection and the Lockpick will then know to use an alternate method to display the video for Lockpick Air or Aux video. Simply place the radio in the Aux mode and the Lockpick will use this for sound while sending the picture seamlessly through the radios' camera input.
- Car Type is selected to allow the Lockpick to recognize different configurations and communications. The default is Type 0 which includes a variety of popular Ford/Lincoln vehicles. Other models are labeled and should be selected to match your vehicle. (ST) denotes Standard Transmission and should be selected if your vehicle is equipped with a manual transmission.



### LOCKPICK AIR WIFI OPERATION

The LOCKPICK AIR includes WiFi capabilities which allow streaming wireless operations from smart phones, tablets and more . Included in the Lockpick capabilities are multiple modes of streaming airplay to allow different types of devices to send video and audio to the Lockpick and Mygig radio. When the Lockpick Air mode is selected and the VIEW VIDEO button is pressed, the Lockpick will display the current Airplay mode. If your device requires a different Airplay mode for streaming, press the AIR MODE button on the remote control or momentarily press the source button on the back of your steering wheel. The Lockpick will toggle between the following three formats.



DLNA (iPhone, iPad)

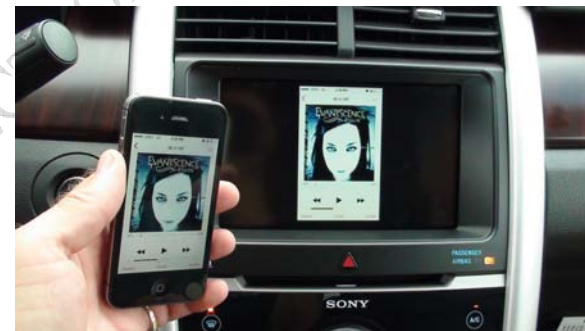
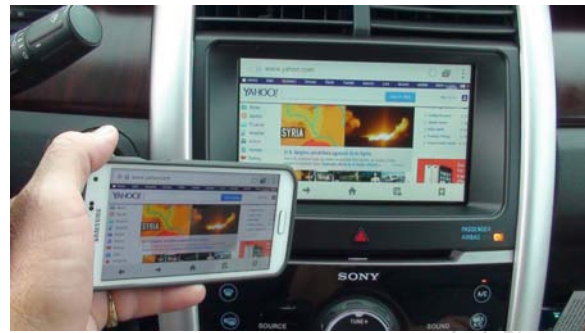


MIRACAST (Android)



WIDI (Intel)

To begin pairing with the Lockpick, simply insure that the WiFi feature of your device is enabled and if prompted, select Lockpick Air to connect.



Turn on the Mirror function on your Apple or Android device and full multimedia operation is transferred to the Lockpick for viewing and listening. This can include music with associated album art, map, navigation, text messaging, pictures, internet, games, **YouTube, Netflix (see Apple restrictions page 1)**, and more. Apple devices will stream videos recorded from the device itself, but will not stream iTunes videos or DRM copyrighted media. Android devices have no such restriction and will even stream movies downloaded and saved on the device.

Make sure that your device is running the latest software available from the manufacturer as earlier versions may not support streaming or mirroring.



## Additional Operations

The Lockpick Air is designed with a full function remote control. It also is programmed to recognize steering wheel controls in a variety of vehicles. The Lockpick allows certain steering wheel buttons to activate override and camera viewing. The layout of the steering wheel buttons will differ between vehicles. Refer to the explanations below for your particular application. NOTE: Type 1 applications (C-Max, Fiesta) do not support steering wheel functions. For these vehicles, all Lockpick operations are performed with the included remote control.

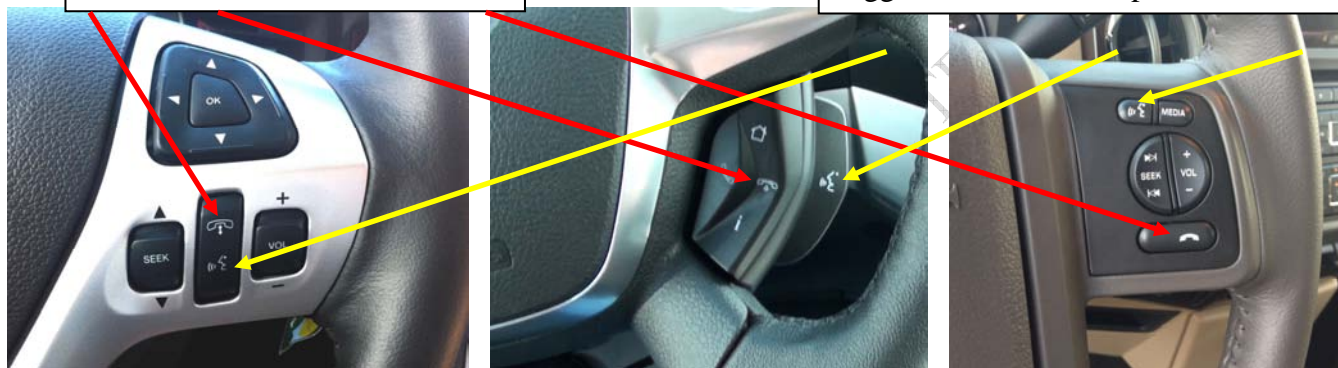
**Follow the operations below if your vehicle is a Type 0 vehicle.**

### **Steering Wheel Button Layouts**

#### **Type "0" Applications**

Press Hangup or Home button 3 seconds to activate or turn off Camera Viewing.

Press Voice button 3 seconds to activate or turn off Lockpick Override. Tap to toggle camera video inputs.



Edge, Explorer, Flex, MKX, F150, Escape, Taurus, F250

1. **Press the Hangup or Home button on your steering wheel and** hold it for 3 seconds to activate and turn On your factory or aftermarket cameras. Press and hold it again for 3 seconds, to turn the camera back Off. The Lockpick will send a beep through your radio system to acknowledge when the camera function is turned On and two beeps when it is turned Off.
2. **Press the VOICE button on your steering wheel** and hold it for 3 seconds to activate the Lockpick Override function. This will fully activate the factory A/V jacks in your console plus navigation input functions. Press the Voice button and hold for 3 seconds to turn the override Off. The Lockpick will send a beep through your radio system to acknowledge when it is turned On and two beeps when it is turned Off.

### Special Camera/Video Options

**A. Your Lockpick Module has several video inputs** which you can use to display camera or other video on your factory screen. After you press the Hangup button for 3 seconds the Lockpick will activate and allow you to view the factory rear view camera or the aftermarket video connected to the Rear Cam video input located and labeled on the Lockpick harness. **You may toggle through the video inputs on your Lockpick module by tapping the Voice button on your steering wheel while any camera or video source is activated.** If you activate a camera or Lockpick video input but you have nothing plugged in, the Lockpick will display a message on your screen identifying the fault and video source. To turn off the viewing of any camera function, press and hold the Hangup button on your steering wheel for 3 seconds.

**B. Alternate Rear Camera** - The Lockpick can be configured to display an alternate or 2<sup>ND</sup> REAR CAMERA instead of the factory or aftermarket rear cam when the vehicle is placed in reverse. This function allows the user to designate a different view while in reverse. For example, when the vehicle is pulling a large trailer, the driver sees only the front of the trailer while in reverse. Instead, the user can mount a second camera on the rear of the trailer and select it for automatic viewing while in reverse gear. Also, this option is great for a bed camera in your truck for 5<sup>th</sup> wheel operations. To activate the 2ND Rear Camera function using the Steering Wheel buttons instead of the Remote Control:

- 1.) Place the vehicle in Reverse gear.
- 2.) Press and hold the Voice button for 10 seconds.

The Lockpick will acknowledge with a beep and the screen view will change from the rear camera view, to the camera video connected to the 2<sup>nd</sup> Rear camera Video input on the harness. If you wish to return to standard rear cam operation, Repeat the process, (vehicle in Reverse, press and hold Voice button for 10 seconds).

**Follow the operations below if your vehicle is a Focus, Fusion or other Type 2/3 vehicle.**

### Steering Wheel Button Layouts Type "2 and 3" Applications



Focus



Fusion

Use the Voice Button for activation of all functions.

1. **Activate the VOICE button on your steering wheel** and hold it for 3 seconds to turn on the Lockpick Override function. This will fully enable the factory A/V jacks in your console plus navigation input functions. Activate the Voice button and hold for 3 seconds to turn the override Off. The Lockpick will send a beep through your radio system to acknowledge when it is turned On and two beeps when it is turned Off.
2. **Activate the VOICE button on your steering wheel** and hold it for 5 seconds to turn on your factory or aftermarket camera. Activate it again for 5 seconds, to turn the camera back Off. The Lockpick will send a beep through your radio system to acknowledge when the camera function is turned On and two beeps when it is turned Off.

### Special Camera/Video Options Type 2,3

**A. Your Lockpick Module has several video inputs** which you can use to display camera or other video on your factory screen. After you press the Voice button for 5 seconds the Lockpick will activate and allow you to view the factory rear view camera or the aftermarket video connected to the Rear Cam video input

located and labeled on the Lockpick harness. **You may toggle through the video inputs on your Lockpick module by tapping the Voice button on your steering wheel while any camera or video source is activated.** If you activate a camera or Lockpick video input but you have nothing plugged in, the Lockpick will display a message on your screen identifying the fault and video source. To turn off the viewing of any camera function, press and hold the Voice button on your steering wheel for 3 seconds.

**E. Alternate 2<sup>nd</sup> Rear Camera** - The Lockpick can temporarily display a different camera other than the factory or aftermarket rear cam when the vehicle is placed in reverse. For example, when the vehicle is pulling a trailer, the driver sees only the front of the trailer while in reverse. Instead, the user can mount a second camera on the rear of the trailer and select it for viewing while in reverse gear.

1.) Place the vehicle in Reverse

2.) Press and hold the Voice button for 5 seconds.

The Lockpick will acknowledge with a beep and the screen view will change from the rear camera view, to the camera video connected to the 2<sup>nd</sup> Rear camera Video input on the harness. If you wish to toggle back to the standard rear cam, press the Voice button again for 5 seconds while still in Reverse.

### USB UPDATING



(make sure the module is also connected to the Lockpick harness and vehicle, with the key off)

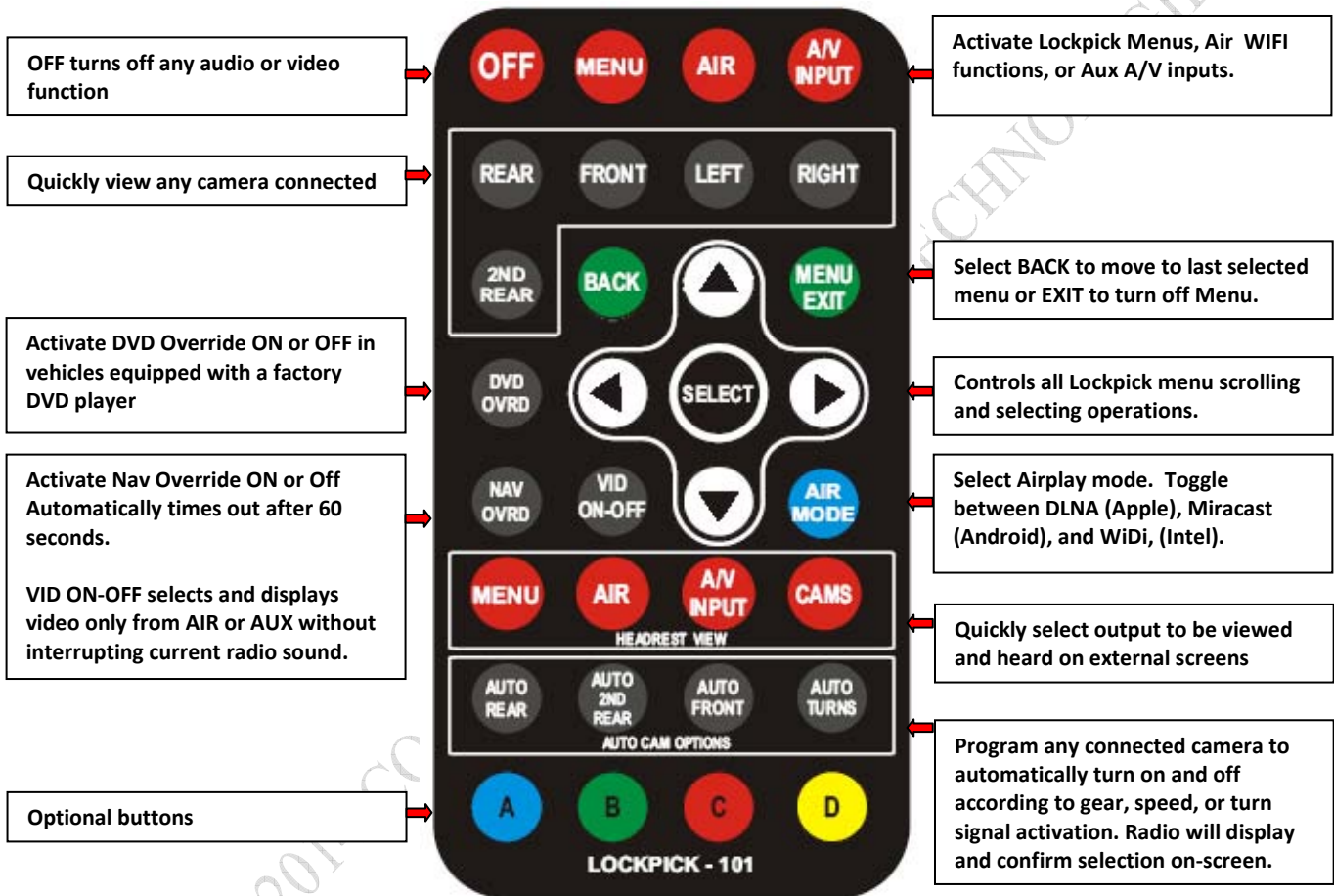
Your Lockpick interface includes the ability to be updated via a standard USB mini connection to a PC. An installation program is available for download on our website at [www.coastaletech.com/usbupdate.htm](http://www.coastaletech.com/usbupdate.htm). Download the application and save it to your computer. Open the folder and select the SETUP file to install the FIRMWARE UPDATER program on your computer. On our website we provide updates and changes that will use the FIRMWARE UPDATER program to allow simple updates to your Lockpick module when desired.

If one of our service technicians advises you 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. 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, start the car and explore the installed firmware changes.

**ENJOY YOUR LOCKPICK™ !!**

## Lockpick Air Remote Control Operations

The Remote control for the Lockpick Air is battery powered (provided) and communicates with infra-red light to the included pickup sensor. The sensor plugs into the Lockpick module and should be placed in the vehicle at a location easily targeted by the remote. The steering wheel functions can be used along with the remote control functions at any time. The remote control can allow quicker access to many of the features of the Lockpick Air without navigating the menu structure needed by the steering wheel controls. Before using the remote for the first time, be sure and pull the plastic tab from the battery compartment to engage battery connections.



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