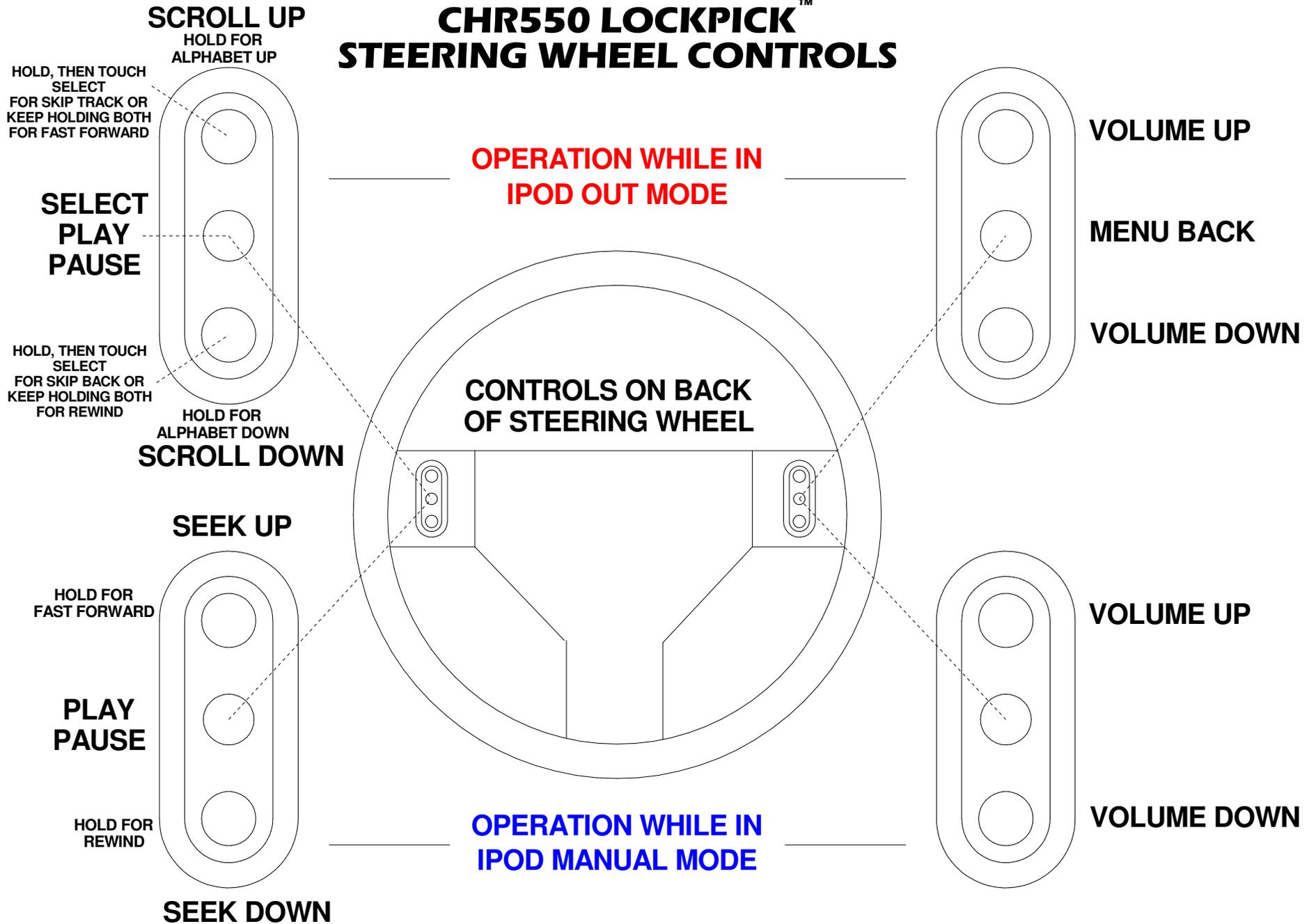


CHR550 LOCKPICK INSTALLATION OPTIONS

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CHR550 LOCKPICK™ STEERING WHEEL CONTROLS



Coastal Electronic Technologies, Inc.

Chrysler/Dodge/Jeep

CHR550 LOCKPICK

Installation and Operation Instructions

Thank you for your purchase of the Coastal Electronic Technologies, Inc. CHR550 LOCKPICK. The CHR550 LOCKPICK has many features and capabilities to unlock and allow full use of your Chrysler/Dodge/Jeep MYGIG radio PLUS an enormous suite of multimedia functions including multi-camera input and built in connection and control of iPod/iPhone/iPad/iTouch devices.

This is only a partial list of included features:

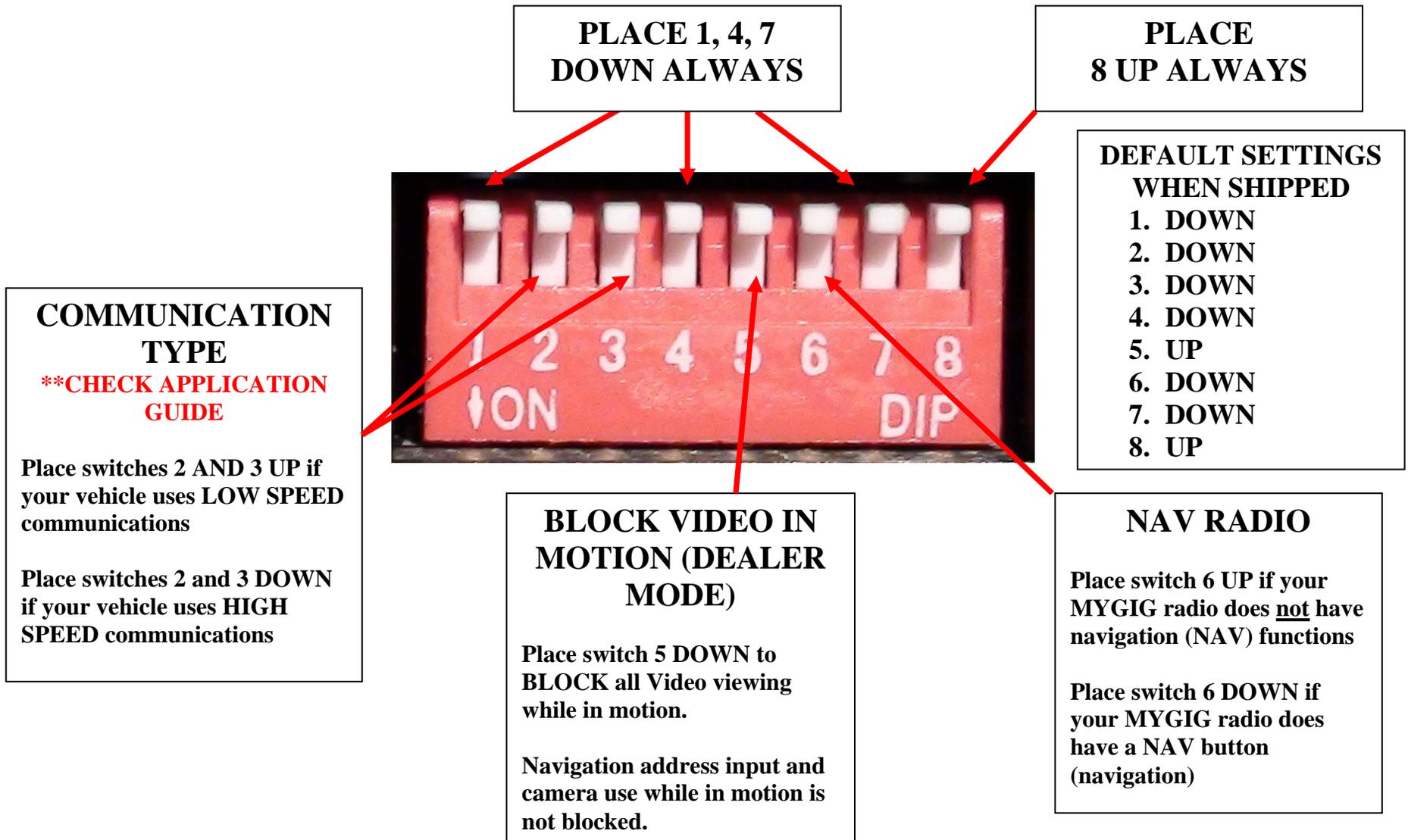
- The ability to use your navigation system without restrictions including the ability to input addresses, search points of interest, etc. while in motion.
- You can also enjoy full use and video viewing of your DVD player(s) and Rear Seat Entertainment (VES) Aux input jacks (if equipped), while in motion if you desire.
- Automatic activation of the TV mode in your radio with custom “channels” to control and activate Lockpick functions. (fully compatible with factory Sat TV rear entertainment systems without loss of function}
- Automatically enables the camera function in your radio with connections for up to 4 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 while in reverse, plus manual activation of any camera at any time.
- Advanced touch screen and steering wheel button control of all functions
- **iPod/iPad/iPhone/iTouch connection with activation of all available video functions plus iPod OUT graphics with album art and more!!**
- USB update ability built in to keep your Lockpick current with changing software needs.
- The MYGIG LOCKPICK will activate Uconnect and Voice modes in RER model navigation radios where the functions are currently blocked.

This manual will document in detail, the many functions of the CHR550 LOCKPICK 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 CHR550 LOCKPICK.

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 CHR550 LOCKPICK 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, 2, 3, 4, 6, and 7 down, and 5 and 8 up. This turns on all options for high speed communications in vehicles with a navigation radio. If your system is the low speed communication type, or is not a navigation radio, then adjust the switches as shown in the following diagrams and photos. Improper switch settings will not damage anything however it could cause your radio to fail to turn on or conflict with existing accessories.



APPLICATION GUIDE

ADDITIONAL VEHICLES MAY APPLY OR BE ADDED LATER

IMPORTANT VEHICLE COMMUNICATION PROGRAMMING SETTINGS

**IDENTIFY YOUR VEHICLE FROM THE APPLICATION GUIDE BELOW AND
PLACE SWITCH 2,3 UP OR DOWN AS DIRECTED BEFORE PLUGGING IN THE LOCKPICK**

LOW SPEED APPLICATIONS SWITCH 2,3 UP	HIGH SPEED APPLICATIONS SWITCH 2,3 DOWN
2007 – 2010 CHRYSLER SEBRING	2008-2011 CHRYSLER TOWN AND COUNTRY
2007 – 2011 DODGE AVENGER	2008-2011 DODGE CARAVAN
2008-2010 CHRYSLER 300 AND 300C	2007 – 2011 DODGE NITRO
2008-11 DODGE DURANGO	2008-2011 JEEP LIBERTY
2008-09 CHRYSLER ASPEN	2007-2011 JEEP WRANGLER
2008-2011 DODGE CHARGER	2009-2011 JOURNEY
2008-09 DODGE DAKOTA	2009-2011 DODGE RAM
2008-2011 JEEP GRAND CHEROKEE	2011 JEEP GRAND CHEROKEE
2008-2010 JEEP COMMANDER	2011 CHRYSLER 200
2008-2011 CHALLENGER	
2009-2011 PATRIOT/COMPASS	

Vehicles can be engineered to operate with different types of communication systems. Chrysler/Dodge/Jeep uses two types of systems in current year models. The CHR550 LOCKPICK is designed and programmed to operate in any MYGIG capable vehicle regardless of communication type, however switch 2 AND 3 must be configured properly to identify the proper system before plugging in the interface. Consult the list above and position switch 2 AND 3 to the proper orientation before plugging in the LOCKPICK module. Placing the switches in the wrong position will cause the radio to fail to turn on. If you accidentally connect the interface with the wrong switch setting, it is recommended that you turn the car off and completely unplug the interface and radio harness before properly setting the programming switches on the interface.

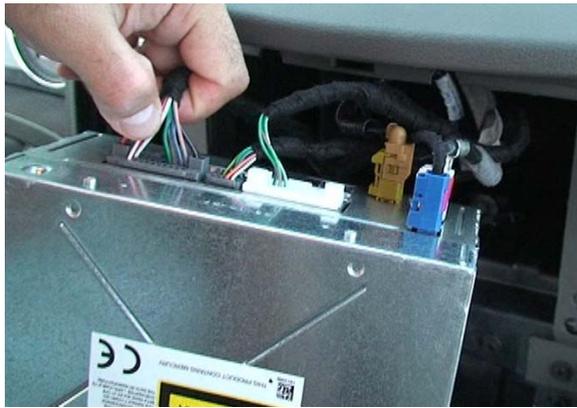
NAVIGATION RADIO UPDATING (older Mygig radios)

The MYGIG navigation radio can be updated by placing an update disk in the player. The radio will recognize that the disk is an update disk and begin the process of loading automatically. Radio updates are provided periodically by the radio manufacturer to address problems which have been recognized in the normal operation of the radio and also to increase features which may have been created since your vehicle was purchased. We have complimentary updates disks available at no charge for the MYGIG navigation radio if you need or desire one. Demonstrations are available on the website at http://www.coastaletech.com/MYGIG_SOFTWARE.htm

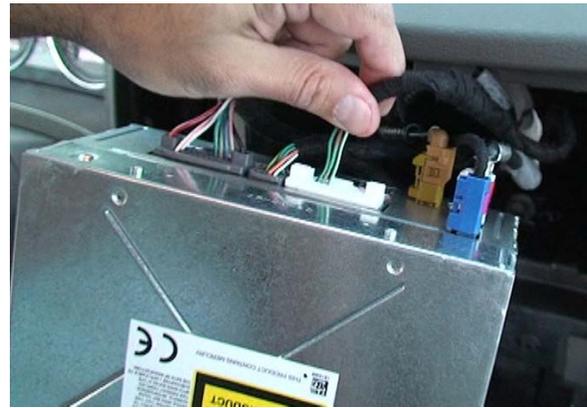
The CHR550 LOCKPICK is designed with a simple “T” harness connector, equipped with factory male and female connectors for direct connection to your screen. Specific links with videos demonstrating methods of gaining access to the rear of the standard MYGIG radio is available for viewing at various links at: <http://www.coastaletech.com/MYGIG.htm>

Most installations are relatively simple with just a single panel surrounding the radio which must be pulled free before exposing the radio. Remove 4 screws holding the radio to view the connectors on the rear of the radio. Consult a professional installer if you require assistance plugging in your Lockpick.

1. **With access to the rear of the screen**, unplug the matching GRAY connector and plug it into the female connector of your CHR550 LOCKPICK harness. Then plug the male connector of the LOCKPICK harness into the earlier factory location. The connectors are keyed and cannot be plugged in to the wrong location. Line up the connectors carefully and make sure that no pins are bent or misaligned before pressing hard to make sure the connector is fully seated.



PLUG GRAY CONNECTOR FROM CHR550 LOCKPICK HARNESS INTO LOCATION SHOWN



PLUG WHITE CONNECTOR FROM CHR550 LOCKPICK HARNESS INTO LOCATION SHOWN

2. **Next, unplug the White connector** from the rear of the radio and plug it into the female connector of the Lockpick module. Then plug the male connector of the Lockpick harness into the earlier factory location. Make sure the connector is fully lined up properly and fully seated.
3. **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, turn the car off and unplug the Lockpick harness from the factory connector. Momentarily place all switches down. Then set them to the desired setting and plug the harness back in to the factory connector to lock in the programming.
4. **2008-2009 (some 2010) vehicles with factory rear view cameras are powered only while the vehicles is in Reverse.** If you would like to enable full control and viewing of your **FACTORY REAR VIEW CAMERA** while in DRIVE or other gears, the included REVERSE CAMERA POWER output wire must be connected as the power source for your camera. This 12V power output will turn on when the vehicle is placed in reverse and also when selected by the user using the radio buttons.

If you choose not to connect the REVERSE CAMERA POWER wire provided by the Lockpick harness to your factory rear camera, the rear camera view while backing up will continue working as normal. However, because the rear camera will have no power in other gears, it cannot be activated by the Lockpick and will display as a blank or flashing picture if activated manually while in Drive.

If your installation requires the use of the REVERSE CAMERA POWER Lockpick wire to enable factory camera operation in all gears, it is simply a matter of running a wire to the factory camera and connecting it in place of the original power wire. Remove any panels covering the rear hatch in your vehicle. Then use a meter or indicator lamp to determine the reverse power connection on the factory camera connector. Make sure you are measuring directly on the connector at the camera location and not further back in a different location. This wire will switch to 12V while the vehicle is in REVERSE and will be zero at other times. Then cut this wire and connect the REVERSE CAM 12V+ power connection from the Lockpick to the camera directly. **Do not** reconnect the original camera power source wire or fail to cut the wire at the camera. Instead tape it up and disregard it. The Lockpick will provide all necessary power and timing for the factory camera. Failing to cut the wire or connecting the Lockpick power and factory power at the same time could cause the reverse tail light to illuminate at improper times. Also, cutting the wire at a different location other than directly on the camera connector could possibly interrupt power to other functions such as the actual reverse taillights or rear obstacle detection systems.

5. **If you do not currently have a rear view camera and want to add one to your vehicle, the Lockpick makes it easy.** The REVERSE CAM 12V + power output provided on the Lockpick will be your source for powering the 12V needs of your aftermarket rear camera. Also, a GROUND connection is already provided for you on the Lockpick harness to make powering your camera simple.
6. **If you want to add a front camera or side cameras to your vehicle, the Lockpick is prewired and programmed for exciting options.** The Lockpick harness has a 12V power output labeled ADDITIONAL CAM POWER 12V+ that is specially designed to automatically provide the power needs of your front and side cameras or to provide power and control of an interior baby camera if desired. Connect the power needs of your additional cameras to the camera power output and attach the GROUND connection of your camera to the GROUND connection provided for you on the Lockpick harness. Connect the video from your cameras to the RCA video inputs labeled on your Lockpick module
7. **Also present on your Lockpick harness is a 12V ACC output connection.** This ACC output is created by the Lockpick and can be used as a convenient 12V switched power source for many of your accessories. It is rated for a constant 1.5 AMPs and will automatically turn on and off at the proper times of your vehicle use. If your power needs are greater than 1.5 Amps, you may use the CONSTANT 12V output conveniently provided by the Lockpick harness and switch it on and off through a relay powered by the ACC power output of the Lockpick harness.

****NOTE:** *The connections for 12V Constant Battery power (YELLOW), ACC Ignition power (RED), GROUND (BLACK), Reverse power(ORANGE W/STRIPE), Front/Baby cam power (RED W/STRIPE), are provided as a BONUS in your wiring harness for you to use when connecting additional accessories such as a DVD player, Game, Cameras, Radar detector, etc., without worry that they might drain your battery when the car is turned off. The ACC wire can power up to 1.5 Amps constant. Higher loads should be connected with a relay.*

**** 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/CAM 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.**

**** When the CHR550 Lockpick is turned on for the first time, allow 30 seconds before operating the various functions and iPod searches, etc. This allows the Lockpick to prepare the radio and screen views for standard operations. After the first startup, the Lockpick will already have the TV mode active and all touch screen options are ready for use. The Lockpick will automatically update the TV channels, requiring only a couple of seconds, each time the TV mode is selected. During the time that “Updating Channels” or “Initializing” is displayed on the TV mode screen, the touch screen options are not available for selection.**

CHR550 LOCKPICK OPERATION INSTRUCTIONS

The CHR550 automatically activates the TV mode and generates up to 7 pages of touch screen options for simple user control. Touch the on-screen button to select the desired function. ****Mygig radio buttons and locations may vary with year and options present.**

Select Radio/Media button and then select the TV touch screen tab

Displays information about current selection or instructions



Select PAGE to advance through Lockpick options

Select LIST to display presets on right of display as shown.

Press VIEW VIDEO to see iPod OUT graphics, cameras, movies. etc.



****See special instructions for steering wheel control during iPod OUT and iPod MNL modes.**

****While "viewing video" touch screen anywhere to overlay touch screen options again or to display "HIDE VIDEO" button to return to standard radio view.**

Lockpick A/V Options Page 1

1. Select LOCKPICK tab to display software revision. The CHR550 is USB upgradable.
2. Select iPod OUT to activate this exciting function in the iPhone, iPad, iPod Touch, and 6th Gen iPod Nano. Press VIEW VIDEO to see graphics. Steering wheel button controls are activated in this mode.
3. Select iPod MNL to allow full manual operation on your iPod device. This can include music, videos, YouTube, Apps like Pandora, iHeart radio, Netflix, etc. Steering wheel button controls are activated in this mode.
4. Select AUX A/V to activate the Lockpick module RCA A/V inputs. Connect any standard multimedia source.



****Bonus feature: Press power button 2x while in modes other than TV (ex. AM, FM, SAT, etc.) to display camera selected here. Press 2x again to turn off camera.**

Lockpick Camera Options Page 2

Select any of the four camera inputs included on the CHR550 Lockpick by pressing REAR CAM, FRONT CAM, LEFT CAM, or RIGHT CAM.

Touch VIEW VIDEO to display the camera video.

Also, camera source selected here sets the default for which camera will be displayed when activated manually while in modes other than TV.



Lockpick Auto Cams Options Page 3

1. Touch any of the 3 options for automatic control of connected cameras. Then touch CHANGE OPT to turn ON or OFF the feature selected.
2. Set AUTO REAR to ON, to automatically activate rear cam while in reverse gear. Default setting is ON. If no rear cam is connected, change option to OFF to avoid blank screen view while in reverse.
3. Set AUTO FRONT to ON, to turn on a forward facing camera automatically while driving less than 8 MPH to aid in parking. Default setting is OFF.
4. Set AUTO TURNS to ON, to turn on left or right cameras whenever the corresponding turn signal is activated. Default setting is OFF.

Automatic cameras will activate and display while the radio is in any mode (AM, FM, etc.)

**While any automatic camera is showing, you can temporarily turn it off and return to the standard screen by pressing the power button 2x.



Lockpick Headrest Output Options Page 4

1. Touch to display the current source that is configured to display on an external screen or headrest.
2. Set to SCRIN, to make the output the same as what it being sent to the front screen.
3. Set to iPod, to send the audio and video from a connected iPhone/iPad/iTouch/iPod, out to the second screen.
4. Set to AUX, to send the audio and video from any device connected to the Aux A/V inputs, out to the second screen.

Status of selected options will display in this location. Selections are independent of the source set for the front screen (dual zone).



Lockpick Headrest Output Options Page 5

1. Set to REAR to always send the rear camera video to a second screen.
2. Set to FRONT, to always send the front camera video to a second screen
3. Set to LEFT to always send the left camera video to a second screen
4. Set to RIGHT to always send the right camera video to a second screen.

The CHR550 includes 4 camera inputs which may be selected to show exterior views on a separate screen. They can also be used for viewing interior areas as desired (ex. baby monitor, lip reading of passengers, camper, etc).



The VES mode is available on the media radio screen view (same HDD, DVD, etc.) Within the VES mode are factory options to send the factory DVD audio and video to an additional screen. A/V output cables are included in your Lockpick radio harness near the white connectors if you would like to use this bonus feature.

- Lockpick Additional Options Page 6**
1. Touch either of the 2 additional options. Then touch CHANGE OPT to turn ON or OFF the feature selected.
 2. Set HR AUTOCAMS to ON, to allow rear cam, front cam or turn signal cams to interrupt headrest output video and show the camera temporarily whenever an automatic camera is activated (ex. Rear cam while in reverse, front or turn cams when activated). Default is OFF.
 3. Reserved for future use.
 4. Enables the rear seat entertainment mode (VES) on vehicles not already factory equipped. Default setting is OFF.



- Lockpick Factory TV Page 7**
- If your vehicle is already equipped with factory satellite TV, the Lockpick will generate a 7th page of options which includes the original three factory TV channels. The normal operation of these factory channels are not affected by the installation of the Lockpick.
- The Lockpick will also fully enable the VIEW VIDEO button for these factory channels.

CHR550 iPod/iPad/iPhone/iTouch Operation

The CHR550 includes functions to allow Audio and Video from Apple devices to play through your factory sound system as well as for it to be viewed on your factory radio screen.

- The CHR550 will automatically enable the video output function if it is available on your connected device. This includes all iPod/iTouch/iPad/iPhone devices which support video output.
- It will also detect if your connected device supports iPod OUT graphical functions. Currently this function is available on iPhone/iTouch/iPad products which are using operating system 4.0 or greater as well as 6th generation Nanos. If your iPhone, iPad or iTouch is not up to date with the current Apple software, simply connect it to your computer and activate iTunes. You will be prompted to update free of charge to the newest software available.

When the "iPod OUT" or "iPod MNL" option is selected from the CHR550 TV menu, the CHR550 will enable the steering wheel controls to perform Lockpick functions.

While in iPod OUT mode, select the VIEW VIDEO button to display the iPod OUT graphics.



- Using the steering wheel controls (back side of the steering wheel) you may scroll up and down the music selection lists.
- You may also hold in the UP and DOWN buttons to activate the alphabetical mode.
- When the desired music title appears, select it to begin playing.
- If the music has album art associated, the radio graphics will include a picture of the album while playing.
- You may return to music searches, even while a selection is playing by pressing the Menu Back button on your steering wheel, or pause and play the music when desired.



- Touch the screen anywhere to overlay the Lockpick TV menus and reveal the "HIDE VIDEO" button to return to standard radio views.

***** If your device does not support iPod OUT, or to play videos, music videos, connect to "Apps" etc., select the iPod MNL mode.**

While in the iPod MNL mode:

- Navigate to the desired song, movie, YouTube video, music video etc. using your iPod click wheel or touch screen.
- Make your selection for audio or touch the VIEW VIDEO button on your radio for audio plus video.
- Steering wheel controls can allow you to play/pause, track up/track down, fast forward/rewind your selection.
- You may access online functions for streaming music such as Pandora, iHeart radio etc. and listen to it through your factory sound system using the iPod MNL mode.
- Video Streaming services such as Netflix can be accessed while in the iPod MNL mode for box office movie play without the need to carry DVD's in your car.
- Touch the screen anywhere while viewing video to overlay Lockpick options or to exit video functions using the Hide Video touch screen option on your radio screen.

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

Installation Q & A:

1. *I installed the Lockpick and now my radio does not turn on.*
Check all interface switches, especially 2 and 3 and correctly set them for the vehicle type (see application chart).
Check to make sure you have fully inserted the Gray connectors behind the radio.
2. *When I put the car in Reverse, the radio screen blanks out. I do not have a rear view camera.*
The Lockpick automatically activates a rear view camera input for your radio. If you do not intend to install a rear view camera or do not want it activated automatically, refer to page 3 of the Lockpick options in the TV mode to disable the AUTO REAR function.
3. *I installed the Lockpick and now my factory VES rear entertainment is intermitting.*
The Lockpick is able to create a VES mode within your radio, to give an installer the ability to output the audio and video of the factory radio DVD player if desired, to an additional screen. The default setting on page 6 of the Lockpick options is VES OFF. If you change the option and turn it ON when you already have a factory VES system, the communication will conflict. Set the option to OFF to restore factory VES operation.
4. *My radio does not have a VIDEO button viewable at any time. Will the Lockpick work for this car?*
The Lockpick will enable the video function regardless of whether it is currently activated.
5. *I do not have a navigation radio or my radio is a new RHB navigation radio. Will the Lockpick turn on the Uconnect and voice recognition functions?*
No, these radios do not have the hardware internally to receive Bluetooth or provide support for voice recognition.
6. *I turned on one of the Camera, iPod, or Aux functions created by the Lockpick and all I see is a flashing picture or blank screen when I try to look at the video.*
This means you don't have anything connected or, do not have the device (cam, iPod, etc.) turned on to supply a video input. The radio screen will be blank or flash when there is no video from your connected device. Common solutions for camera pictures are normally resolved by rechecking the power connections and insuring that all cameras are powered by the connections provided on the Lockpick harness. This includes the factory rear view camera, if your vehicle requires a Lockpick connection to power it while in a gear other than reverse. Also, check to make sure you have fully inserted the White connector on the Lockpick harness and the video connections for your device are plugged in. Connectors not fully inserted may create intermitting operations.

USB UPDATING



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

Your CHR550 Lockpick interface includes the ability to be updated via a USB connection to a PC. Included with your interface is a cable designed to plug into the mini USB jack on the Lockpick module and connect it to the standard USB jack on a laptop computer. A software program is available for download and installation on our website at 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 an update becomes available, 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™ !!

Available accessories to make your camera installations easy



MINICAM 221 Color Camera
Digital Distance Markings
Standard or Mirror Image
(front or rear)
Waterproof
21' Power and Video cable



BARCAM 221 Color Camera
Digital Distance Markings
Standard or Mirror Image
(front or rear)
Night Vision Illumination
Waterproof
21' Power and Video cable