



# CADNAV1 Advent Integrated Navigation

This interface is designed to integrate Navigation into select Cadillac CUE, Buick, Chevrolet and GMC MyLink Systems.

This system is NOT applicable to vehicles that do not have CUE or MyLink/Intelilink and will not operate in those vehicles.

## INSTALLATION GUIDE



### What's in the Box

The following items are supplied with the CADNAV1

• LVDS Video Cable #31414170	• Aux Audio # 31514170
• CAN Module #33814170	• GPS Antenna #34914170
• CAD Power Harness #37514170	• USB Update Cable #32714170
• Buick Power Harness #37614170	• Map SD Card #35014170
• CAN to NAV #30314170	• Speaker Wire Harness #31914170
• Switch #34714170	• AUX Video #33914170
• Installation Guide	• External Speaker #33514190
<b>NOTE: Not all parts are used in every installation.</b>	

## Prior to Installation:

Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

Read entire instructions thoroughly before starting.

This document covers such items as:-

- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.).
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.).
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.)

### NOTES:

Removed Parts:

Inspect the vehicle for any damage.

Place all removed parts on a protected surface in an area where they will not be damaged.

Connectors:

When disconnecting connectors, do not pull on the wires; pull on the connectors.

## Vehicle Preparation and Protection

### CAUTION!

- ***Do not touch the positive terminal with any tool when removing cable.***
- ***Be sure ignition key is in the OFF position during install***
- ***Do not disconnect ANY airbag connectors or indicators. Doing so may result in activating a diagnostic code. These codes will require the dealer to perform the reset procedure and may be charged a dealer fee.***
- ***If you are unsure of any vehicle trim removal process consult the OEM service manual.***
- ***Removing vehicle trim panels in extreme hot and cold climate could result in some vehicle damage. Use care when removing all vehicle trim.***
- ***Using tape on vehicle trim panels could help limit any scratches and or marring. Use plastic trim panel removal tools whenever possible.***

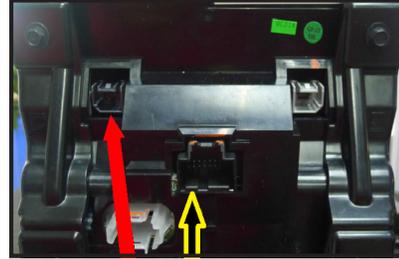
The instructions included in this kit are current at the time of printing. It is designed as a guide to help make the installation of this product successful. Always use caution and ask for assistance if you are not sure how to proceed. Voxx International is not responsible for any damage that may occur during installation or any changes to the vehicle interior.

## Installation:

Removal of the Radio control center is required for installation. Vehicle Specific instructions are available on-line at [www.voxxuniversity.com](http://www.voxxuniversity.com).

After the components are removed, connect the following:

1. The navigation module can be located behind the radio or to either side. Determine your exact mounting location to insure you route your wires correctly.
2. Using the supplied T-harness power cable, disconnect the matching cable from the rear of the main radio unit. Plug the T-harness in the radio and the factory harness into the T-harness. (Yellow arrow).
3. Disconnect the USB type video cable from the rear of the radio. (Red arrow). Plug the supplied LVDS cable in to the radio and the factory cable into the LVDS cable. Connect the LVDS cable to the Nav module.



*Cadillac CUE system Shown above*

**NOTE:** *The Buick, GMC radio panel will look different than the picture above but the connections are the same.*

4. Connect the CAN module to the power harness connection.
5. Connect the CAN to Nav interface cable to the main Nav module as shown in the wiring diagram.
6. The system utilizes either the center front speaker in the dash or an included external speaker for easier installation or for vehicles that do not have a center channel speaker. The Nav system will mute the radio audio in that speaker only when giving directions.

**NOTE:** *The left dash speaker will also work if no center speaker is available.*

To install using the factory speaker, remove the center channel speaker from the dash, route the included speaker harness to the speaker location. Connect the supplied harness to the speaker and the OEM wiring to the other harness connector. Route the wire to the module and connect.

If using the included External speaker pick a location that is not obstructed and can be heard easily by the driver. Remove the tape backing from the rear of the speaker and attach to the mounting location. Route the wire to the module and connect.

- ***If needed or for custom installation this can be wired to any standard 4 ohm speaker. The Green and Gray colored wires are the audio output.***

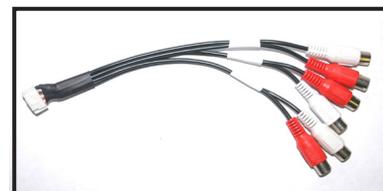
The Nav module has the ability to add a backup camera and 2 AV inputs. The module will support the factory backup camera if the vehicle is equipped with this.

If you are adding a camera or aux inputs, use the supplied cables and connect as needed.

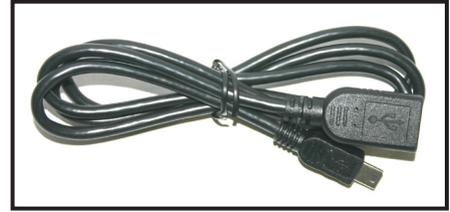
7. Aux Video:  
Red: Backup Camera Input  
Yellow: Aux 1 Video Input  
White: Aux 2 Video Input  
Gray: Not used



8. Aux Video: Aux Audio:  
See attached labels



9. USB Update Cable: This is used for map updates. Route the cable from the module to the glove box for future use as needed. Connect to the Nav module.



10. GPS Antenna: The antenna must be mounted in a location where it has a clear view of the sky. Center of the dash by the glass is recommended.

**NOTE: If reception is poor re-locate to another area and re-test. The GPS antenna cannot be blocked by metal surfaces and should be visible for best reception.**

11. Nav activation switch: In Cadillac vehicles with CUE, the nav is activated by pressing the NAV icon on-screen. In other vehicles the nav will be activated by pressing a set position on the screen or using the included wired switch. If using the switch find a proper location for the switch to be mounted and then route the wire to the Nav Module. Note: The switch also allows switching through the AUX inputs if they are utilized.

## DIP Switch Settings:

**Up is OFF; Down is ON for Dip Switches.**

12. Check the DIP Switch settings:

Dip 1: UP	External RGB input-Not Used
Dip 2: UP	Video Input 1 Off
Dip 3: UP	Video Input 2 Off
Dip 4: DOWN	High Resolution On for OEM Screen
Dip 5: UP	On for OEM Camera, Off for after market camera
Dip 6: UP	Not used.
Dip 7: UP	Up 8" screen, Down for 4" screen
Dip 8: UP	Up 8" screen, Down for 4" screen

13. Check to be sure the Map SD Card is installed in the Navigation unit.

**Double check all connections, and then reconnect the vehicle battery.**

## Navigation Interface Operation:

### CUE Equipped Vehicles:

To change the OEM radio to Navigation mode press the Navigation icon on the main screen.



Exit Navigation by pressing the home key on the radio face (see circled area). The nav will continue to operate unless you have selected to stop the route or used the Navigation Exit icon in the Nav application.



### MyLink Equipped Vehicles:

If you have installed the switch, the NAV will be selected by pressing each time to enter or exit the Nav application. To enter the Nav application from the touch screen, press the location on the screen noted by the star ★ for about 2 seconds. This location will work in any screen or menu. Exit Navigation by pressing the same location again.



**NOTE:** When a call is received on Bluetooth the caller information is displayed on the driver information center above the steering column, use the SWC controls to answer calls.

For Navigation operation see the included quick start guide or download a full user's manual from [WWW.ADVENTPRODUCTS.COM](http://WWW.ADVENTPRODUCTS.COM).

If the picture is not centered or does not fill the screen correctly you can adjust the picture size. Access the settings menu by pressing the Menu button on the side of the Nav Interface Module.

Use the Menu button to scroll through the options and "+" or "-" buttons to adjust the value.

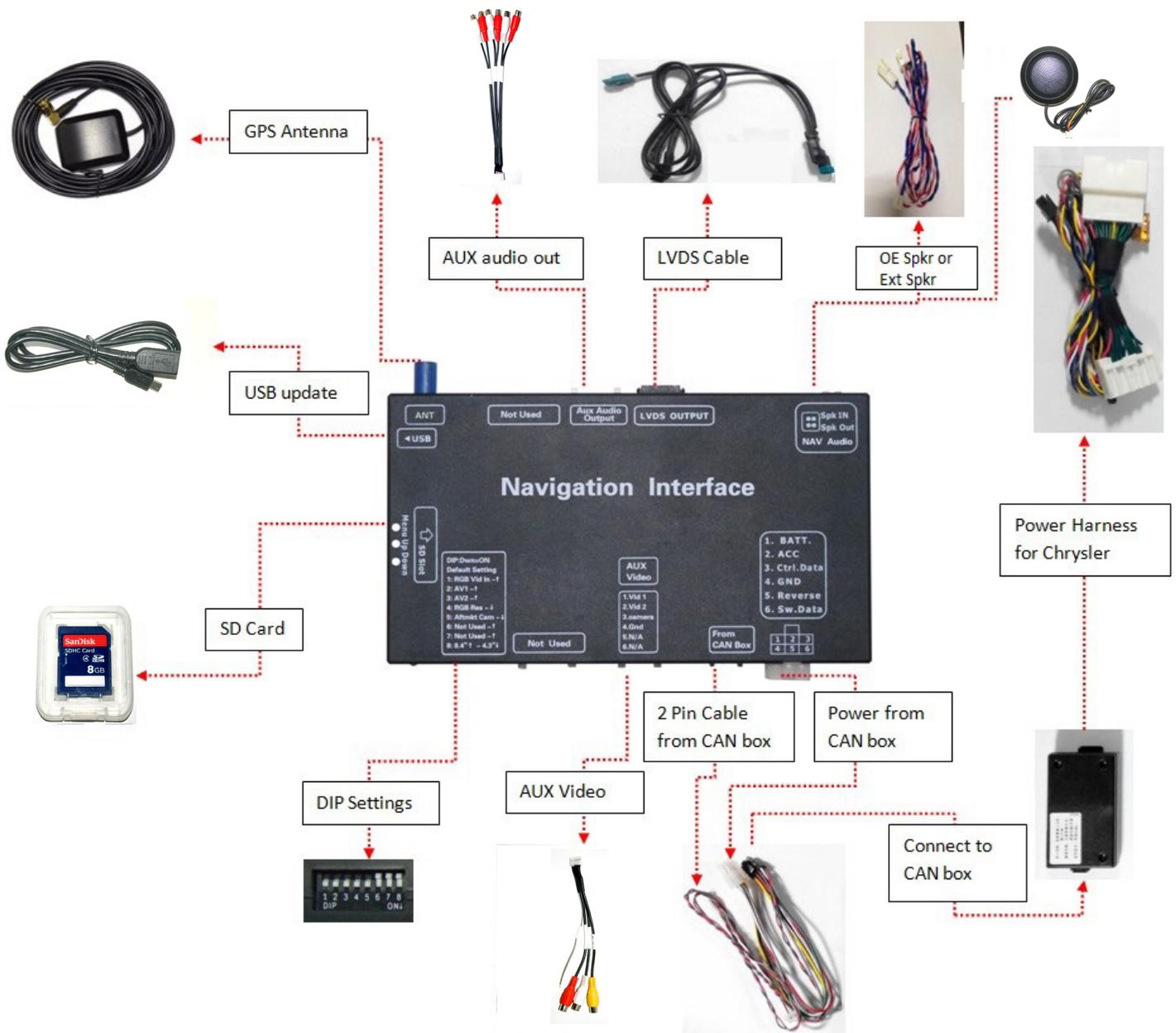
1. Contrast, Brightness and Saturation are all screen adjustments for picture quality.
2. Position H and V are for Horizontal and Vertical Position, use to adjust to fit factory screen as needed.
3. IR-AV1, IR-AV2: NOT USED. Select NONE to insure proper operation.
4. Guide-L, Guide-R-CNTRL -These are controls for the position of the Parking Lines. By selecting + or - you can move the position of the lines to match the vehicle width.
5. H-Size, V-Size: This will adjust the picture to meet the full screen size of the OEM panel.

<b>Setup Menu</b>	
<b>Contrast</b>	<b>50</b>
<b>Brightness</b>	<b>50</b>
<b>Saturation</b>	<b>62</b>
<b>Position-H</b>	<b>23</b>
<b>Position-V</b>	<b>3</b>
<b>IR-AV1</b>	<b>NOT USED</b>
<b>R-AV1</b>	<b>NOT USED</b>
<b>Guide-L</b>	<b>0</b>
<b>Guide-R</b>	<b>3</b>
<b>Guide-CNTRL</b>	<b>OFF</b>
<b>H - SIZE</b>	<b>16</b>
<b>V - SIZE</b>	<b>40</b>

**Specifications:**

No.	Name	Parameters
1	Video input	0.7Vpp with 75 Ω impedance
2	Synchronized signal strength	3-5Vpp with 5K impedance negative pulse synchronization.
3	RGB resolution	By changing DIP4 user can select HD/VGA or normal HD : 800X480 or VGA :640X480 Normal NTSC-vertical 240 (or 234)
4	Av1, Av2, cam video	0.7Vpp with 75 Ω impedance
5	Av1, Av2, cam format	NTSC/PAL/SECAM Automatic switch
6	Normal power	4.8W [0.4A @12V]
7	Stand by current	< 10mA
8	Trigger level threshold (Reverse and switching)	>5V trigger
9	Output current of additional control port 1.2.7	Maximum current of 2A.
10	Operating temperature range	-40 +85C
11	Dimensions	15.6 X 9.2 X 2.2 Cm

**For Technical Support Please Call 1- 800-323-4815.**



*Vehicle Specific Instructions, Tech Tips, and Installation notes can be found at [WWW.AUDIOVOXUNIVERSITY.COM](http://WWW.AUDIOVOXUNIVERSITY.COM)*



**Voxx Electronics Corporation**  
**Hauppauge, NY 11788**  
**Technical Assistance: 1-800-323-4815**  
**[WWW.ADVENTPRODUCTS.COM](http://WWW.ADVENTPRODUCTS.COM)**

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