

GMNAV1 Advent Integrated Navigation

This interface is designed to integrate Navigation into select

Buick and Chevrolet Systems.

INSTALLATION MANUAL



What's in the Box		
The following items are supplied with the GMNAV1		
CAN Module #33814190	• Aux Audio #31514170	
EQX Power Harness #37614190	GPS Antenna #34914170	
MLB Power Harness #37514190	USB Update Cable #32714170	
CAN to NAV #30314170	• Map SD Card #35014170	
• Switch #31414170	SWC Source Buttons #33714190	
Installation Guide	Extension LVDS Video Cable # 33914190	
NOTE: Not all parts are used in every installation.		

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.

After the components are removed, connect the following:

- 1. The navigation module can be located behind the radio or to either side. In some vehicles it may be located below the radio. We have included a extension Video (LVDS) cable for these cases. Determine your exact mounting location to insure you route your wires correctly.
- 2. Remove the Blue Video Cable and the Black power harness connection from the rear of the panel housing.
- 3. Using the supplied power harness cable, plug into the OEM panel and connect to the OEM cable. Plug the supplied Video cable in to the panel and the factory cable into the Nav module video connection.

NOTE: The panel may 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 white wire on the CAN module must be connected to the CAN wiring behind the main radio chassis. Remove the radio chassis / CD player by removing 4 screws. Once it is out of the dash you will connect the white CAN wire to the Dark Green CAN wire shown here. This will allow access of the NAV through the SWC switch, supply Reverse gear notification for a camera, and Parking line information when using a add-on camera. (Will not show parking line info on the OEM camera).
- 7. **External Speaker:** The system utilizes an external speaker for Nav Audio. Select a location to mount the speaker where it can be clearly heard by the driver. Some suggestions are below the dash or the center console base.
- If needed or for custom installation this can be wired to any standard 4 ohm speaker.

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.

- 8. Aux Video: There are 3 RCA video inputs on the Nav Module. If these are used you must switch on the DIP switch that corresponds to that input.
- 9. Aux Audio: Use the included harness for Audio in and Out.
- 10. **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.
- 11. **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.







12. Nav activation switch: Included with this kit are two pieces of SWC replacement switch covers. These covers will fit some of the vehicle applications such as the Malibu. Since changes happen quickly at the OEM we suggest you compare the enclosed switch covers with the vehicle you are installing in. If they are the same size and shape they will work.

We offer several ways to trigger the change between Navigation and the OEM functions:

- A: Touch and press for 3 or more seconds anywhere on the panel that does not have an active switch or icon. You can again do this to exit navigation.
- **B:** Install the included Navigation dash switch. Pressing this will toggle you in and out of Nav or the aux inputs if using them.
- C: Install the OEM steering wheel switch cover.

NOTE: Installer assumes all liability for the switch, buttons, and controls. This is a delicate procedure and if not done correctly damage can occur. Voxx is in no way responsible for damage.

- 1. Using a nylon pry tool, wrap the tool with masking tape where it will contact the steering wheel. This will eliminate scratching of the painted surface. Carefully and gently pry upward from the bottom center. Do not pry from the side or top as you will damage the retainer clips. You are only removing the cover.
- 2. Select the switch cover that best matches the color of the factory switch and carefully snap the cover in place on the steering wheel.



DIP Switch Settings:

Up is OFF; Down is ON for Dip Switches.

13. 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	OEM High Resolution Screen On
Dip 5: UP	For OEM Camera UP, After Market Camera Down
Dip 6: UP	This is not used.
Dip 7: UP	New GVIF - Reverses Video Polarity - UP Default
Dip 8: UP	Screen Size Selection - 8" screen UP

14. 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 on an open area on the screen for 3 seconds.
- Press the Nav switch if installed.
- Press the SWC Nav switch for 3 or more seconds if installed.

Exit Navigation by:

- Pressing again on an open area of the screen for 3 seconds.
- Press the Nav switch.
- Press the SWC Nav switch for 3 or more seconds if installed.

For Navigation operation see the included quick start guide or download a full user's manual from 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.

Setup M	enu
Contrast	50
Brightness	50
Saturation	62
Position-H	23
Position-V	3
IR-AV1	NOT USED
R-AV1	NOT USED
Guide-L	0
Guide-R	3
Guide-CNTRL	OFF
H - SIZE	16
V - SIZE	40

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

Voxx Electronics Corporation Hauppauge, NY 11788 Technical Assistance: 1-800-323-4815 WWW.ADVENTPRODUCTS.COM

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