

PRODUCT FEATURES:

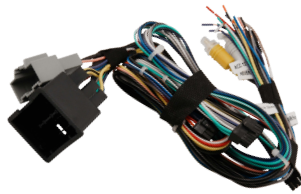
- Retains factory features in select GM LAN Bus vehicles while functioning with an aftermarket radio.
- Retains factory monochrome screen and display button functionality in select applications
- Retains backlight for the factory color display and button functionality
- Retains factory OnStar and all warning chime functionality.
- Retains factory Steering Wheel Controls via built-in, preprogrammed interface.
- Retains RAP(Retained Accessory Power) and is compatible with amplified and non-amplified audio systems.
- Navigational output: Amp-Turn On, Illumination, Parking Brake, Reverse gear and VSS.
- Retains factory backup camera and the 3.5 Auxiliary input, includes antenna adapter.

NOTE: Do not connect the amplifier turn-on lead from the aftermarket radio. The interface supplies the necessary amplifier activation.

PARTS INCLUDED:



SOOGM-22N Module



SOOGM-22N Harness with Camera
Retention Harness

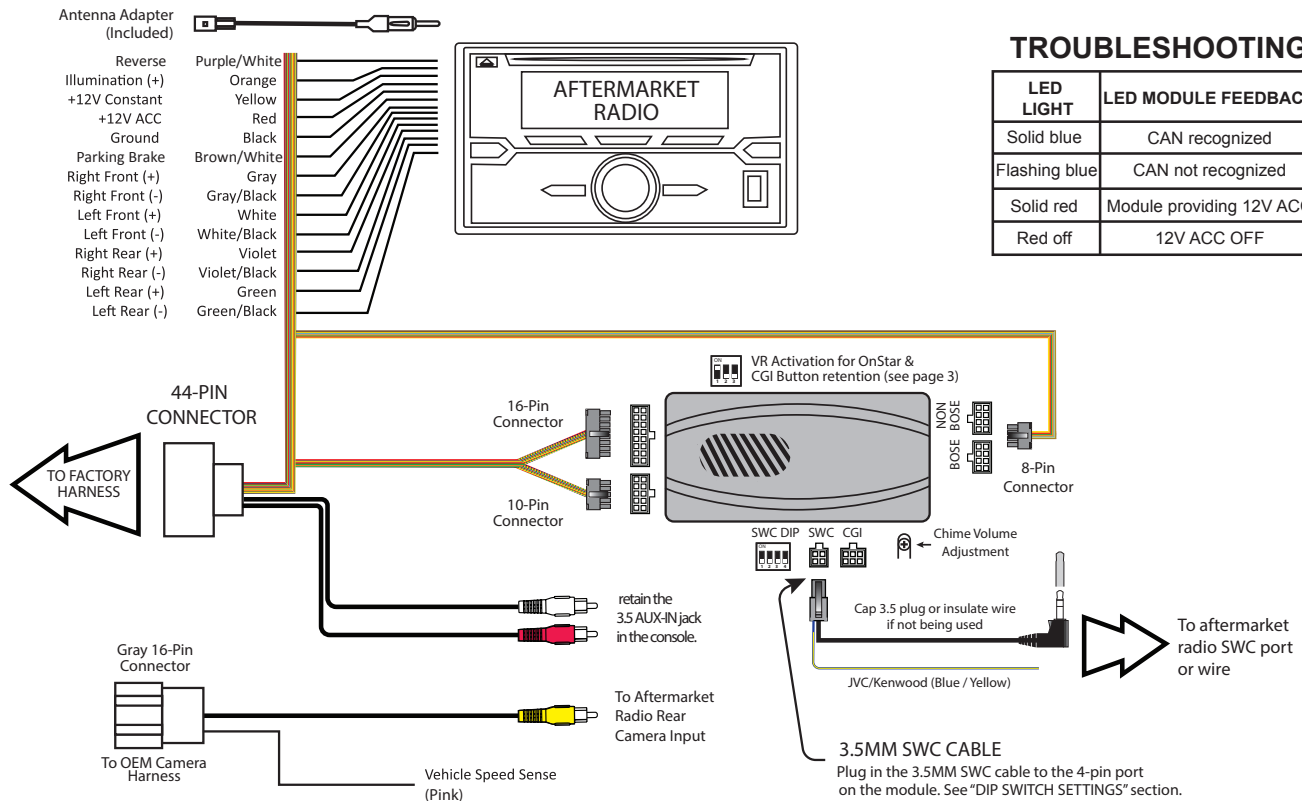


SWC Cable



Antenna Adapter

INSTALLATION DIAGRAM:



TROUBLESHOOTING

LED LIGHT	LED MODULE FEEDBACK
Solid blue	CAN recognized
Flashing blue	CAN not recognized
Solid red	Module providing 12V ACC
Red off	12V ACC OFF



AUDIO CONNECTION:

Plug in the 8-pin Molex connector of the SOOGM-22N harness to the Black, NON BOSE, port of the module.

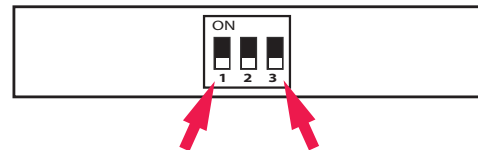


ONSTAR VR ACTIVATION / VOLUME CONTROL:

To activate the OnStar VR (Voice Recognition), use dip switch 1 and 3 on the 3 set of Dip switches

DIP 1: ON = OnStar Activation
OFF= Aftermarket Radio VR*

DIP 3: ON = Lower OnStar Volume
OFF= Higher OnStar Volume

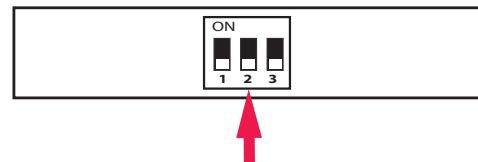


*NOTE: If DIP 1 is set to OFF, use the OnStar button on the rear view mirror to activate OnStar.

CGI CONNECTION & UPPER DASH BUTTON RETENTION:

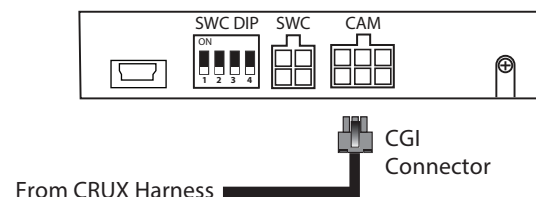
To retain Upper Dash buttons , use dip switch 2 on the 3 set of Dip switches

DIP 2: ON = Chevrolet Malibu / Chevrolet Cruze
OFF= Chevrolet Equinox / GMC Terrain
(Monochrome screen upper dash button retention)



To retain the factory monochrome and color screen features (Color Graphic Information display – CGI), connect the 6-pin CGI connector to the port labeled 'CAM.'

Note: Although the enclosure is labeled 'CAM,' this port is used to retain factory CGI feature



CGI CONNECTION & UPPER DASH BUTTON RETENTION (Continued):

Monochrome Screen Retention

This interface retains the factory OEM monochrome screen along with all its functions and submenus. To access the monochrome screen, press the Configure button.

Date and Time Settings

The module has its own clock. If the car battery is disconnected, the date and time will reset and must be set again.

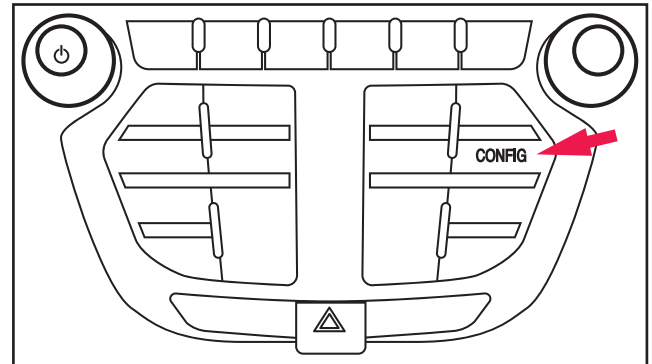
To set or change:

Config Button → Time and Date Settings

Options:

- Set Date
- Set Time
- 12/24 Hour Format
- Month/Day Format

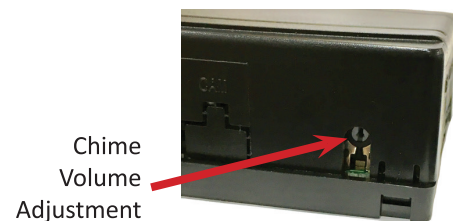
Use the menu knob to adjust and press to confirm.



Select "CONFIG" in the upper dash control to enter monochrome screen OEM buttons.

CHIME VOLUME ADJUSTMENT:

The SOOGM-22N has a potentiometer to adjust the chime volume. It is set at half way by default. To adjust the volume, simply use a suitable screw driver and turn the potentiometer clockwise to increase the volume and counter-clockwise to decrease the volume.



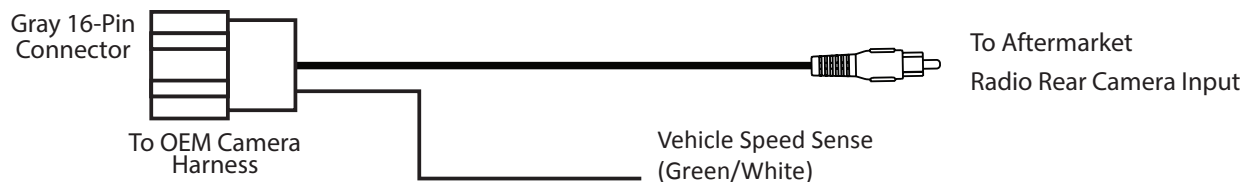
ONSTAR VOLUME ADJUSTMENT:

To adjust the OnStar volume, turn on OnStar and adjust the volume using the SWC volume adjustment. There are 4 steps of volume control. Once it is set, the SOOGM-22N will memorize this level.

BACKUP CAMERA CONNECTION:

You can retain the factory back-up camera by using the OEM camera retention harness included in the kit.

1. Connect the 16-pin back-up camera harness to the vehicle's 16-pin factory backup camera connector.
2. Connect the Yellow video RCA to the new aftermarket radio camera input.
3. Test the video feed before installing the radio back into the dashboard.

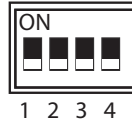


DIP SWITCH SETTINGS:

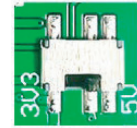
AFTERMARKET RADIO DIP SWITCH SETTINGS:

RADIO BRAND:	DIP#:	1	2	3	4
Atoto, Dual, Fahrenheit, Jensen,		OFF	OFF	ON	ON
Pioneer, Power Acoustik, Soundstream		OFF	OFF	ON	ON
Blaupunkt, Most off-brand Radio		OFF	OFF	ON	ON
Alpine		OFF	OFF	OFF	OFF
Clarion		OFF	ON	ON	OFF
Kenwood		OFF	ON	ON	ON
JVC		OFF	ON	OFF	ON
Boss, Old Sony		OFF	ON	OFF	OFF
New Sony		OFF	OFF	ON	OFF

SWC MODULE DIP SWITCH



SWC Troubleshoot option



Located internally
Need to take plastic
Casing off module

- If Steering Wheel Controls don't work or work properly please switch internal dip switch from 3v3 to 5v as shown in picture above.

NOTE: For Atoto, Blaupunkt, Dual, Fahrenheit, Power Acoustik, Soundstream, and most off-brand radios, check the aftermarket radio's manual to see if the SWC buttons need to be programmed.

3.5MM SWC CABLE

Plug in the SWC cable's 4-pin connector to the SOOGM-22N module and the 3.5mm plug to the aftermarket radio's SWC port. Connect the Blue/Yellow wire to SWC wire if using Kenwood or JVC radios.

NOTE: Cap or Insulate the 3.5mm plug and Blue/Yellow wire if not being used.

For aftermarket radios that have wires for SWC connections, cut off the 3.5mm plug on the Crux SWC Cable and connect the SWC wires as follows:



RED to SWC Key 1
WHITE to SWC Key 2
SHIELD to SWC Ground

Note that there are some radios that only have SWC1 and SWC2, in this case "shield" does not need to be connected.

VEHICLE APPLICATIONS:

BUICK

2017 Cascada
2015-2016 Encore

CHEVROLET

2011-2015 Cruze
2016 Cruze Classic / Limited
2010-2017 Equinox
2013-2015 Malibu*
2016 Malibu Classic*
2012-2016 Sonic
2012-2015 Spark
2016 Spark Classic
2015-2016 Trax
2015 Volt

GMC

2010-2017 Terrain

Color Screen



Mono Chrome screen



NOTES:

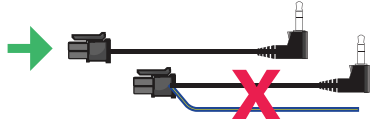
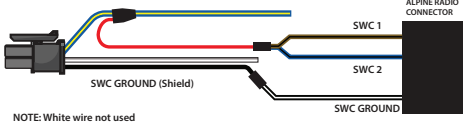
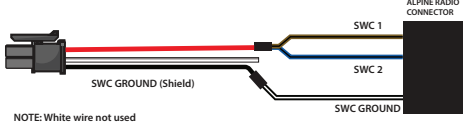
- Does not retain factory satellite radio.

* Not compatible on Malibu models with navigation radio.



STEERING WHEEL CONTROL SETTINGS:

Note: Identify Alpine SWC learning radios by checking for three SWC cables and a SWC learn menu, instead of a 3.5mm SWC input.

If Interface has one SWR-100 Cable included	If Interface has two SWR Cables included				
1 - Find the included SWC adapter cable. 	1 - Identify appropriate SWC adapter cable. Do not use cable with Blue / Yellow wire. 				
2 - Prepare the SWC Cable: Cut the SWC cable. You will find a red wire, a white wire, and a ground (shield) wire inside.  					
3 - Adjust the Module Settings: Set the module to the Pioneer dip switch setting. This configures the module to communicate correctly with the Alpine radio. DIP: 1 2 3 4 On Alpine iLX series radios use Pioneer settings <table border="1"> <tr> <td>OFF</td> <td>OFF</td> <td>ON</td> <td>ON</td> </tr> </table> 		OFF	OFF	ON	ON
OFF	OFF	ON	ON		
4 - Configure the Alpine Radio: On your Alpine radio, select the setting that includes "Without adapter" for SWC. This ensures the radio will recognize the steering wheel controls. Select "SWC Adapter"   Select the setting "Without Adapter" 					
5 - Connect the Wires: Connect both the SWC1 and SWC2 wires from aftermarket radio to the red wire from our SWC cable. Connect the SWC ground wire to the shield (ground) wire of our SWC cable. These steps should enable the steering wheel controls on your Alpine iLX series radio.  					
6. Program the SWC: Navigate to the SWC settings on your Alpine radio to assign and test each control function.					

