

PRODUCT FEATURES:

- Retains factory features in select GM LAN 29 Bit vehicles while functioning with an aftermarket radio.
- Pre-programmed to retain factory Steering Wheel Controls.
- Retains OnStar, factory rear view camera and chime functions.
- Retains factory backup sensors / park assist system.
- Supports Bose, non-Bose and Y-91 audio systems.
- EIA color coded wiring for easy installation.
- Includes Double DIN Radio Replacement Dash Kit.

PARTS INCLUDED:



SOOGM-16 Module



SOOGM-16 Harness



Backup Camera Harness



SWC Cable

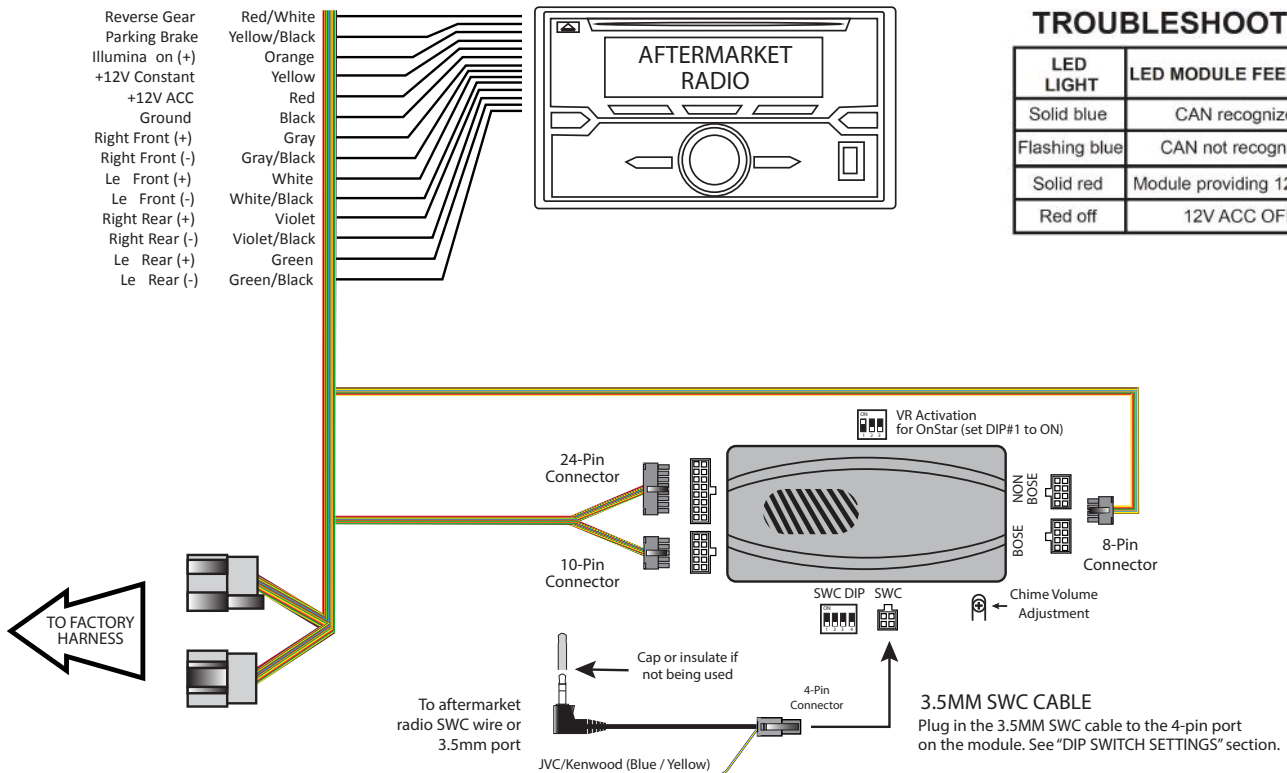


Antenna Adapter



Dash Kit

INSTALLATION DIAGRAM:



TROUBLESHOOTING

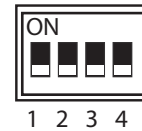
LED LIGHT	LED MODULE FEEDBACK
Solid blue	CAN recognized
Flashing blue	CAN not recognized
Solid red	Module providing 12V ACC
Red off	12V ACC OFF



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



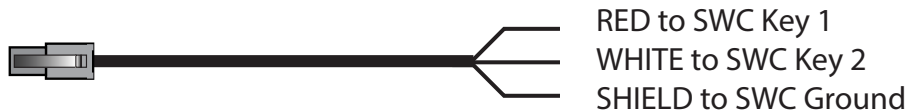
NOTE: For Atoto, Blaupunkt, Dual, Fahrenheit, Power Acoustik, Soundstream, and most off-brand radios, check the aftermarket radio's manual to see if the SWC buttons need to be programmed.

3.5MM SWC CABLE

Plug in the 3.5MM to 4-Pin SWC cable to the SWC module.

NOTE: Insulate the Blue/Yellow wire or 3.5mm plug 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:



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

SELECTING THE AUDIO SYSTEM:

If the vehicle is equipped with an amplified audio system, the SOOGM-16 has a built-in audio level adaptor that outputs the proper audio level from the aftermarket radio to the factory amplifier. To use this feature, plug in the male 8-pin connector on the SOOGM-16 harness to the GRAY female 8-pin connector on the SOOGM-16 module. The module is also labeled "Bose" and "Non Bose" to avoid confusion. (see picture below)

If the vehicle is NOT equipped with a factory amplified system, plug in the male 8-pin connector to the BLACK female 8-pin on the SOOGM-16 module.



BOSE
(Amplified)
Connection

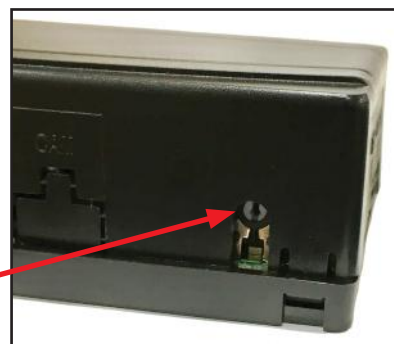
Non-BOSE
(Non-Amplified)
Connection



CHIME VOLUME ADJUSTMENT:

The SOOGM-16 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.

Chime
Volume
Adjustment



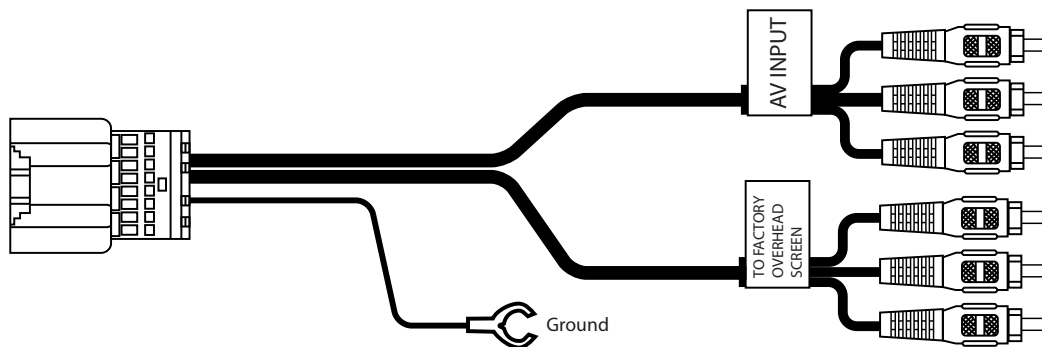
ONSTAR VOLUME ADJUSTMENT:

To adjust the OnStar volume, turn on OnStar and adjust the volume using the Steering Wheel Control volume adjustment. Once it is set, the SOOGM-16 will memorize this level.

REAR SEAT ENTERTAINMENT (RSE) (Optional Cable):

Part# **CRUX2333A** can be special ordered to retain the Rear Seat Entertainment (RSE).

1. Connect the CRUX 2333A's 16-pin connector to the vehicle's 16-pin factory RSE connector at the radio location.
2. To view videos from the aftermarket radio on the factory overhead screen, connect the RCAs labeled TO FACTORY OVERHEAD SCREEN to the aftermarket radio's AV output.
3. To retain the use of the factory rear panel AV input, plug the RCAs labeled AV INPUT to the aftermarket radio's AV Input (optional).
4. Test the audio and video on the overhead screen before installing the radio back into the dashboard.



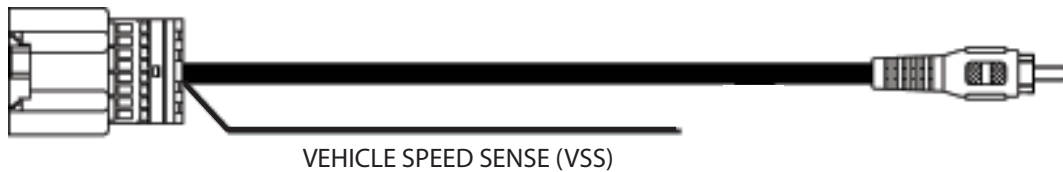
Part# CRUX2333A (Sold Separately)



BACKUP CAMERA CONNECTION:

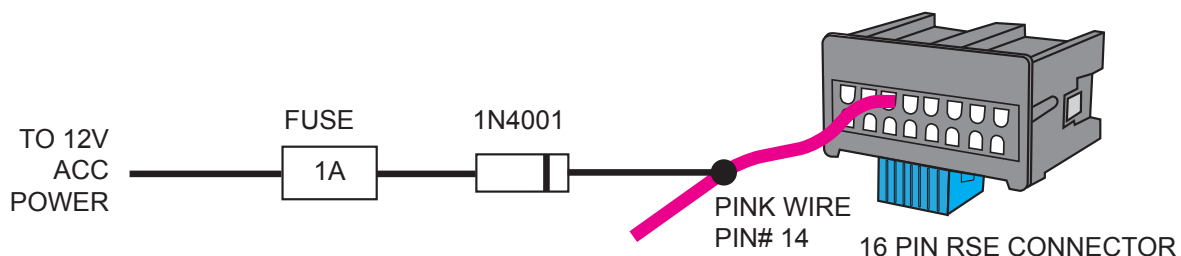
You can retain the factory back-up camera by using the CRUX 2543 harness included in the kit.

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.



ENABLING THE IR SYSTEM:

To retain the use of the IR headphones with the factory overhead entertainment system you will need to connect a +12 volt switched accessory power wire to the rear entertainment panel wire harness located in the rear of the center console. You will need a 1 amp fuse and a 1N4001 diode to complete the installation. Remove the RSE control panel in the center console. Tools will be required such as a panel remover tool and/or 7mm socket. Locate the (pink) wire located in pin 14 of the (gray) connector. Connect the diode's stripe side to the pink wire. Connect the other end of the diode to one side of the 1 amp fuse. Connect the remaining side of the fuse to a +12 switched accessory wire. Refer to the wiring diagram below.



STEERING WHEEL CONTROL BUTTON FUNCTIONS:

SWC Button	All radios except Sony	Sony
Short Press		
VOICE	Mute	Mute
VOLUME DOWN	Volume Down	Volume Down
VOLUME UP	Volume Up	Volume Up
TRACK UP	Track Up / Seek Up	Track Up / Seek Up
TRACK DOWN	Track Down / Seek Down	Track Down / Seek Down
SOURCE	Source	Source**
RIGHT ARROW	Preset Up	Preset Up
Long Press		
VOICE	VR / OnStar*	VR / OnStar*
VOLUME DOWN	Volume Down Continuous	Volume Down Continuous
VOLUME UP	Volume Up Continuous	Volume Up Continuous
TRACK UP	Answer Call	---
TRACK DOWN	End Call	Reject Call
SOURCE	---	---
RIGHT ARROW	---	---

- 1 = VOICE
- 2 = VOLUME UP/DN
- 3 = TRACK UP/DN
- 4 = SOURCE
- 5 = RIGHT ARROW



DASH KIT INSTALLATION:

A double DIN radio replacement dash kit is included in the kit to make the installation quick and easy. You have the option of installing a Double DIN or two Single DIN radios. The DKGM-49 kit includes:



INSTALLATION:

NOTE: Suzuki XL7 trim top corners of radio housing. See diagram A.



Diagram A

Before installation:

1. Locate the main trim.
2. Locate the left and right mounting brackets.
3. Slide the appropriate mounting bracket into the trim ring, aligning the holes in the trim ring to the clips on the bracket. (See Diagram B)
4. For two Single DIN radio installation, slide the stacked ISO DIN unit into the trim ring bracket assembly and secure the unit to the kit using the screws supplied with the radio. (See Diagram C)

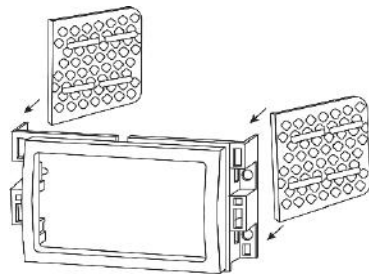


Diagram B

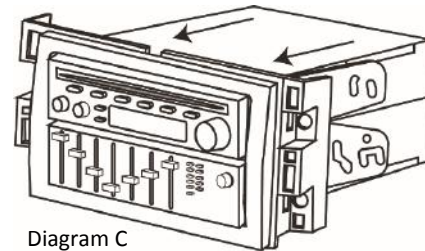


Diagram C

VEHICLE APPLICATIONS:

BUICK

2008-2017 Enclave
 2006-2011 Lucerne

CADILLAC

2007-2014 Escalade
 2007-2009 SRX

CHEVROLET

2007-2013 Avalanche*
 2007-2009 Equinox
 2008-2016 Express Van
 2006 -2013 Impala
 2006-2007 Monte Carlo
 2007-2014 Silverado 1500-3500 Pickup*
 2007-2014 Suburban*
 2007-2014 Tahoe*
 2009-2017 Traverse

GMC

2007-2016 Acadia
 2017 Acadia Classic
 2008-2017 Savana
 2007-2014 Sierra 1500-3500 Pickup*
 2007-2014 Yukon*

HUMMER

2008-2009 H2

PONTIAC

2007-2009 Torrent

SATURN

2007-2010 Outlook
 2008-2010 Vue

SUZUKI

2007-2008 XL7

*2012-2014 Vehicles with Navigation Units are not Supported. Use Crux# DKGM-16W instead.

