



DKGM-16

Radio Replacement with OnStar, SWC Retention, & Dash Kit
for GM LAN 29 Bit Vehicles 2006 - 2020

PRODUCT MANUAL
VER.071426

CONTACT

ADDRESS:

CRUX Interfacing Solutions
21541 Nordhoff St. Unit C,
Chatsworth, CA 91311

PHONE:

(818) 609-9299

E-MAIL:

support@cruxinterfacing.com
sales@cruxinterfacing.com

WEBSITE:

www.cruxinterfacing.com

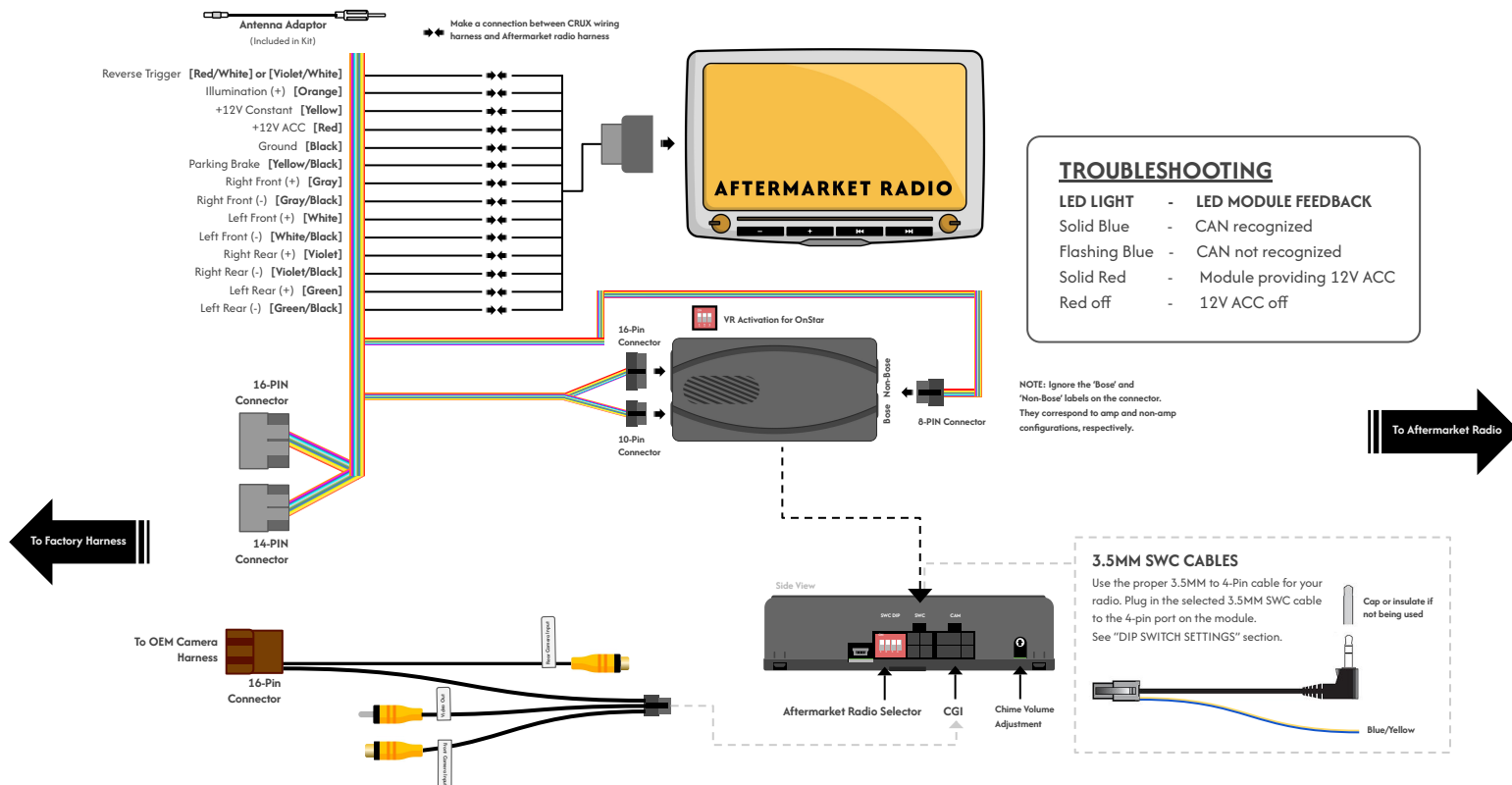
PRODUCT FEATURES:

- 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:



INSTALLATION DIAGRAM:



DIP SWITCH SETTINGS:

AFTERMARKET RADIO DIP SWITCH SETTINGS:

RADIO BRAND:	DIP#:	1	2	3	4
Atoto, Dual, Fahrenheit, Jensen, Nakamichi		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 (with CarPlay)		OFF	OFF	ON	OFF
SWC Learning Radios*		ON	OFF	OFF	ON
New Boss*		ON	OFF	ON	OFF

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

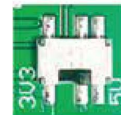
* For the new Boss and SWC Learning Radios make sure the firmware on the module is SW1.0.2, if not please update

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.

SWC TROUBLESHOOTING 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.



Troubleshooting for SWC Learning Radios

SELECTING THE AUDIO SYSTEM:

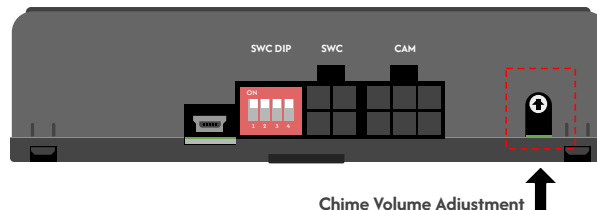


If the vehicle is equipped with an amplified audio system, the DKGM-16 has a built-in audio level adaptor that outputs the proper audio level from the aftermarket radio to the factory amplifier. To use this feature, plug in the male 8-PIN connector on the DKGM-16 harness to the Gray female 8-PIN connector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

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

CHIME VOLUME ADJUSTMENT:

The DKGM-16 has a potentiometer to adjust the chime volume. It is set at the half way by default. To adjust the volume, simply use a suitable screwdriver and turn the potentiometer clockwise to increase the volume and counter-clockwise to decrease the volume.



ONSTAR VOLUME ADJUSTMENT:

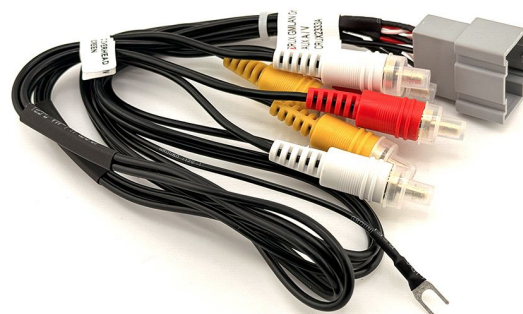
To adjust the OnStar volume, turn on OnStar and adjust the volume using the SWC volume adjustment. There are 4 steps of volume control. Once it is set, the DKGM-16 will memorize this level.

REAR SEAT ENTERTAINMENT (RSE) (optional cable):

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

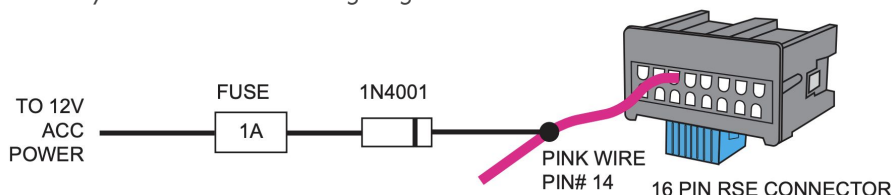
1. Connect the CRUX2333A's 16-Pin Connector to the vehicle's 16-Pin factory RSE connector at the radio location.
2. To view videos from the aftermarket radio on the factory overhead screen, connect the RCAs labeled TO FACTORY OVERHEAD SCREEN to the aftermarket radio's AV output.
3. To retain the use of the factory rear panel AV input, plug the RCAs labeled AV INPUT to the aftermarket radios AV input (optional).
4. Test the audio and video on the overhead screen before installing the radio back into the dashboard.

CRUX2333A (sold separately)



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 the pin 14 of the (gray) connector. Connect the diode's stripe side to the pink wire. Connecting 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
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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-16 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)

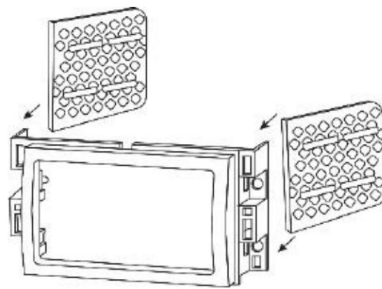


Diagram B

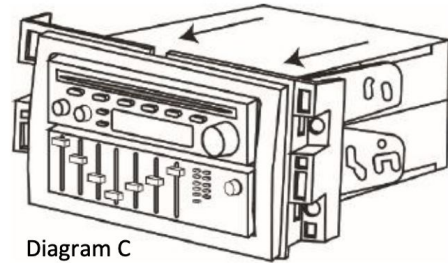


Diagram C

VEHICLE APPLICATIONS:

BUICK

2008-2012 Enclave
2006-2011 Lucerne

CHEVROLET

2007-2013 Avalanche *
2007-2009 Equinox
2008-2016 Express Van
2006-2013 Impala
2006-2007 Monte Carlo
2007-2014 Silverado 1500-3500
2007-2014 Suburban
2007-2014 Tahoe
2009-2012 Traverse

SUZUKI

2007-2008 XL-7

GMC

2007-2012 Acadia
2008-2020 Savana
2007-2014 Sierra 1500-3500
2007-2014 Yukon

HUMMER

2008-2009 H2

PONTIAC

2007-2009 Torrent

SATURN

2007-2009 Outlook
2008-2009 Vue

NOTE:

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