



DKGM-49A

Radio Replacement Interface with Steering Wheel Control
Retention for GM LAN 29-Bit Trucks & SUVs 2012-2014

PRODUCT MANUAL
VER.072126

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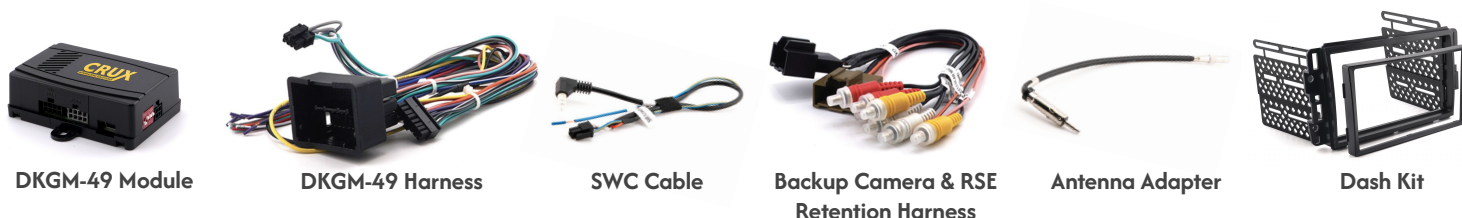
WEBSITE:

www.cruxinterfacing.com

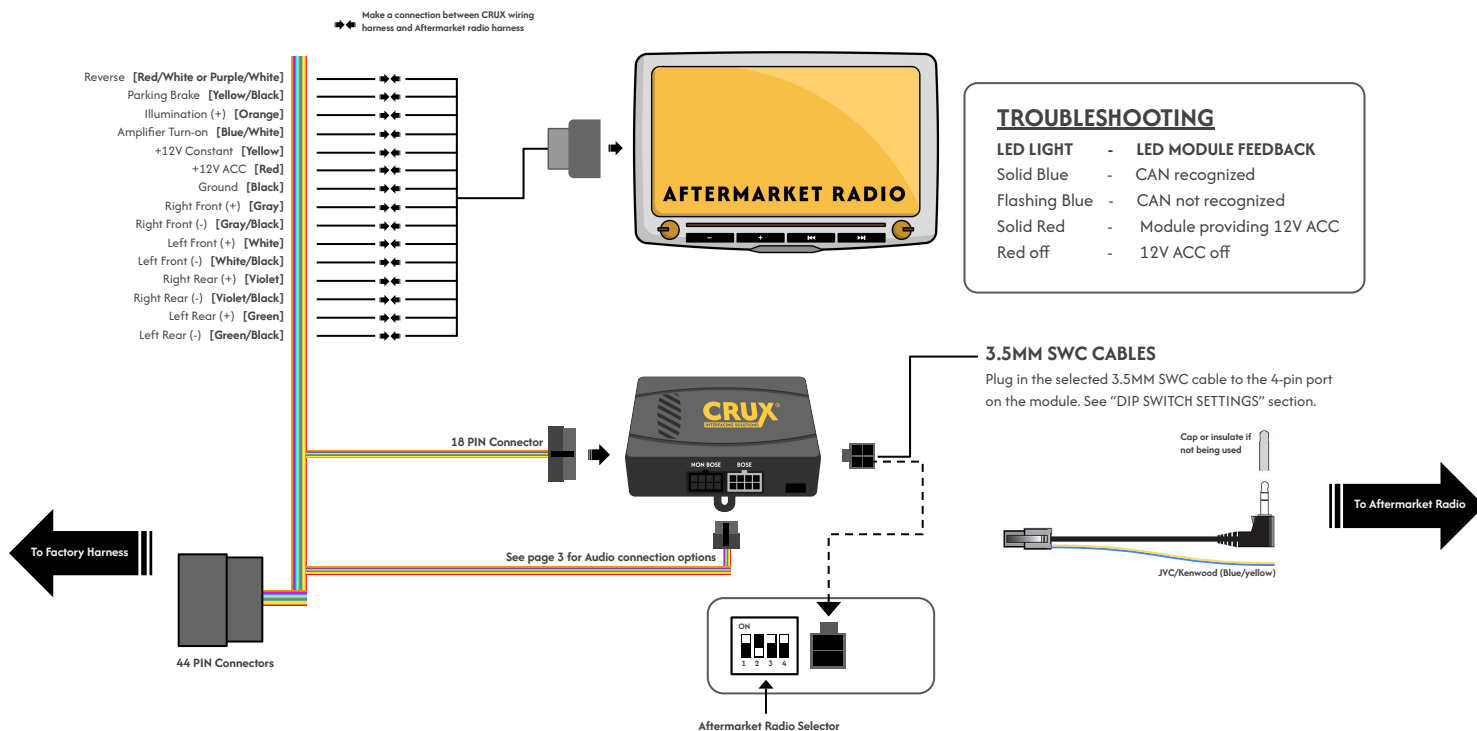
PRODUCT FEATURES:

- Retains factory features in select GM LAN 29 Bit trucks and SUVs while functioning with an aftermarket radio.
- Pre-programmed to retain factory Steering Wheel Controls.
- iPhone Voice Recognition (VR) feature from SWC on select Kenwood, Pioneer, Alpine and JVC radios.
- Supports Pick Up/End Call, Pick up and Toggle between 1st and 2nd incoming call, AVRCP Track, Seek.
- Supports Bose, non-Bose and Y-91 audio systems.
- Retains chime functions.
- Provides Factory Rear Seat Entertainment Activation. Requires Cable #CRUX2444A included in kit .
- Retains factory back-up camera.
- EIA color coded wiring for easy installation.

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
New BOSS		ON	OFF	ON	OFF

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.



SWC Module
DIP Switch

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 SWC Learning Radios specific steps are required. Please scan the QR code on the right.

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.



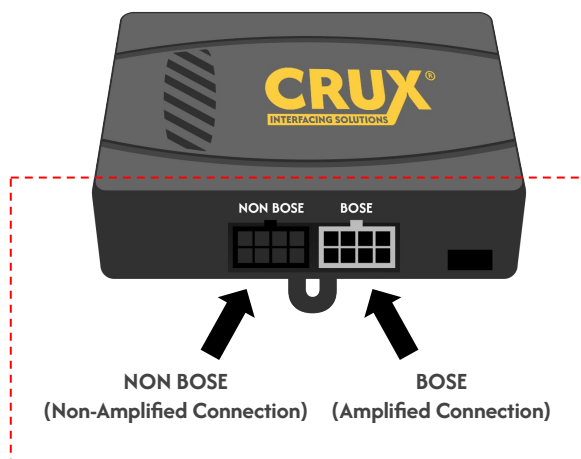
NOTE:

If you have the previous generation hardware with 3 DIP switches, please scan the QR code below and refer to the Aftermarket Radio DIP Switch Settings guide.

SELECTING THE AUDIO SYSTEM:

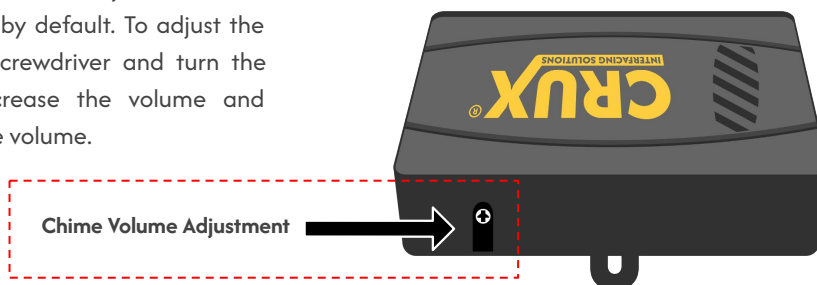
If the vehicle is equipped with an amplified audio system, the DKGM-49A has a built-in audio level adaptor that outputs the proper audio level from the aftermarket radio to the factory amplifier. To use this feature, plug in the male 8-PIN connector on the DKGM-49A harness to the GRAY female 8-PIN connector on the DKGM-49A module. The module is also labeled "BOSE" and "NON BOSE" to avoid confusion. (see image for reference)

If vehicle is NOT equipped with a factory amplified system, plug-in the male 8-PIN connector the the BLACK female 8-PIN on the DKGM-49A module.



CHIME VOLUME ADJUSTMENT:

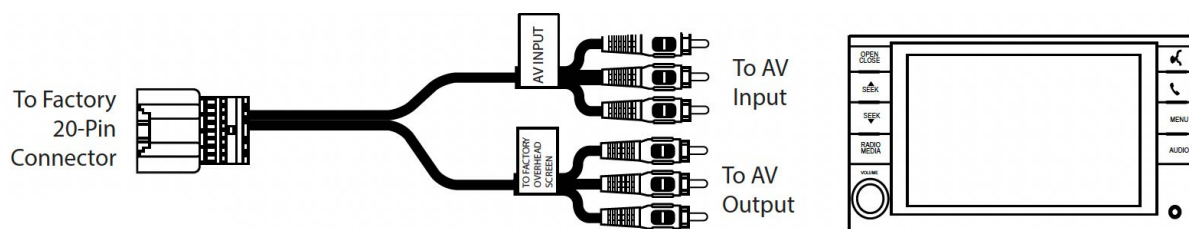
The DKGM-49A has a potentiometer to adjust the chime volume. It is set at the half way by default. To adjust the volume, simply use a suitable screwdriver and turn the potentiometer clockwise to increase the volume and counter-clockwise to decrease the volume.



BACKUP CAMERA CONNECTION:

You can retain use of the factory backup camera by using the CRUX2444 harness provided in the kit. See below for connection instructions. (Note: Loose wires may not be needed in the installation.)

1. Connect the Crux back-up camera 20 pin connector to the vehicle 20 pin connector
2. Connect the yellow video RCA to the new aftermarket radio reverse camera input.
3. Test the video feed before installing the radio back into the dashboard. (Radio may need to be set prior to testing).



NOTE:

1. Does NOT retain the factory backup camera on models that show the camera image on the rearview mirror.

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-49A kit includes:

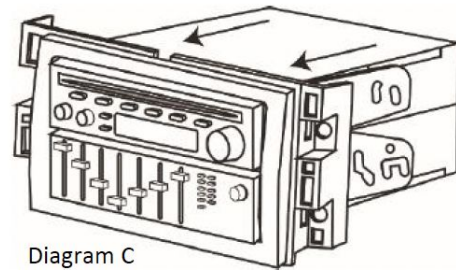
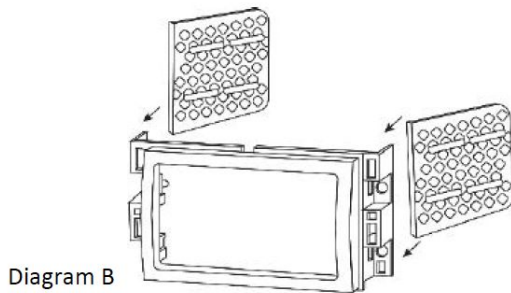


The DKGM-49A Kit includes:

DASH KIT INSTALLATION:

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**)



VEHICLE APPLICATIONS:

YEARS	MAKE	MODEL	YEARS	MAKE	MODEL
2012-2013	CHEVROLET	Avalanche	2012-2013	GMC	Sierra 1500-3500 Pickup
2012-2014	CHEVROLET	Silverado 1500-3500 Pickup	2012-2014	GMC	Yukon
2012-2014	CHEVROLET	Suburban			
2012-2014	CHEVROLET	Tahoe			

NOTES:

1. NOT compatible with Express and Savana vans that are powered by a diesel engine.
2. Supports Rear Entertainment System with special order harness #2444A
3. DOES NOT retain ONSTAR please use part SOOGM-16W to retain Onstar.

STEERING WHEEL CONTROL BUTTON FUNCTIONS:

SWC BUTTON	SHORT PRESS	LONG PRESS
VOL +	Step Increment	Continuous VOL +
VOL -	Step Decrement	Continuous VOL -
Arrow Up ▲	Seek Up	Phone Pickup
Arrow Down ▼	Seek Down	Phone Hangup
SRCE	Source Change	Preset
▶	Play/Pause	Preset
Voice	Mute	Voice Command

EXAMPLE APPLICATIONS:

- Chevrolet Silverado 1500-3500 2012-2014
- Chevrolet Suburban 2012-2014
- Chevrolet Tahoe 2012-2014
- GMC Yukon 2012-2014