



DKGM-51

Radio Replacement with SWC Retention and Dash Kit
For GM LAN 11 Bit Vehicles 2004 - 2012

PRODUCT MANUAL
VER.072226

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 11 Bit vehicles while functioning with an aftermarket radio.
- Pre-programmed to retain factory Steering Wheel Controls.
- Supports Bose, non-Bose and Y-91 audio systems.
- Retains chime functions.
- Retains front and rear parking sensors.
- EIA color coded wiring for easy installation.

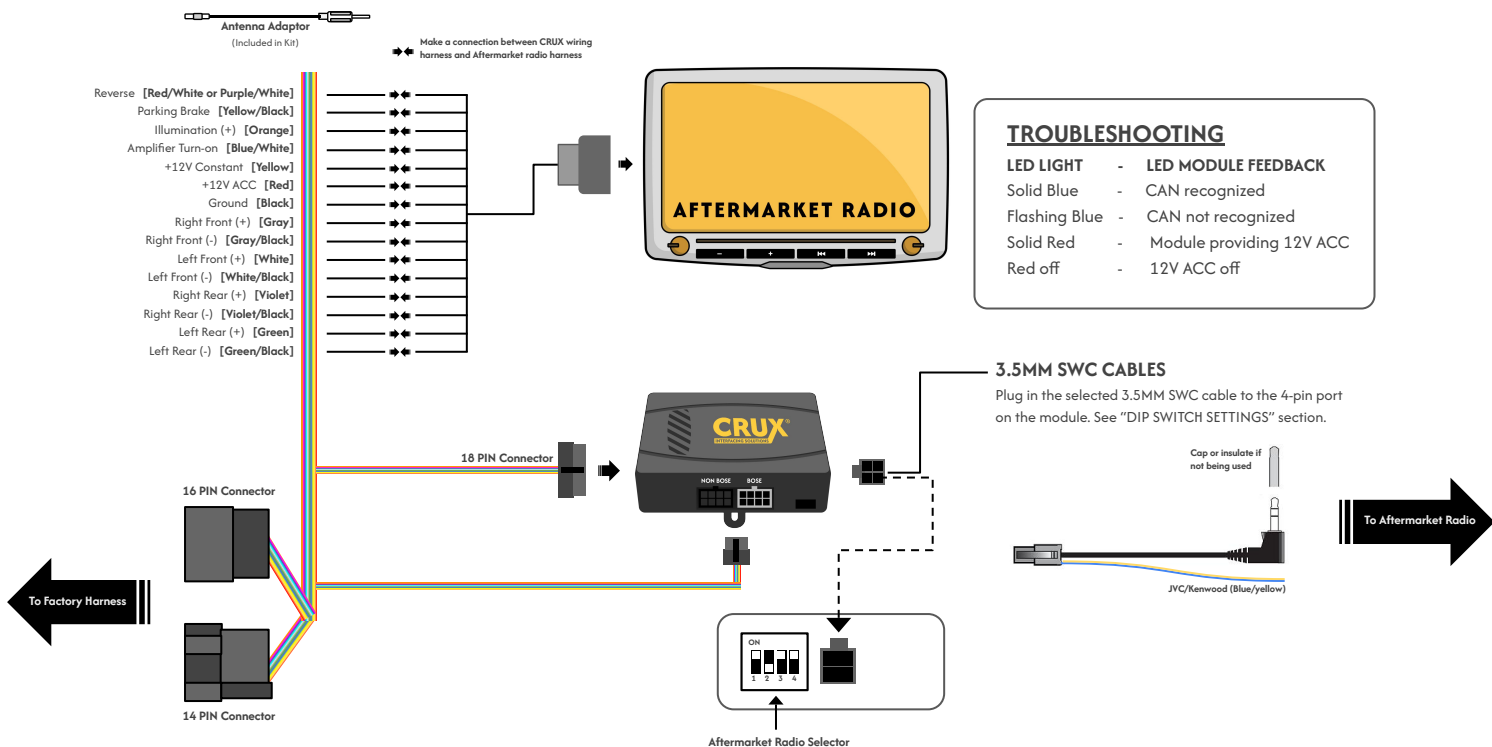
NOTE:

1. DOES NOT support ONSTAR.

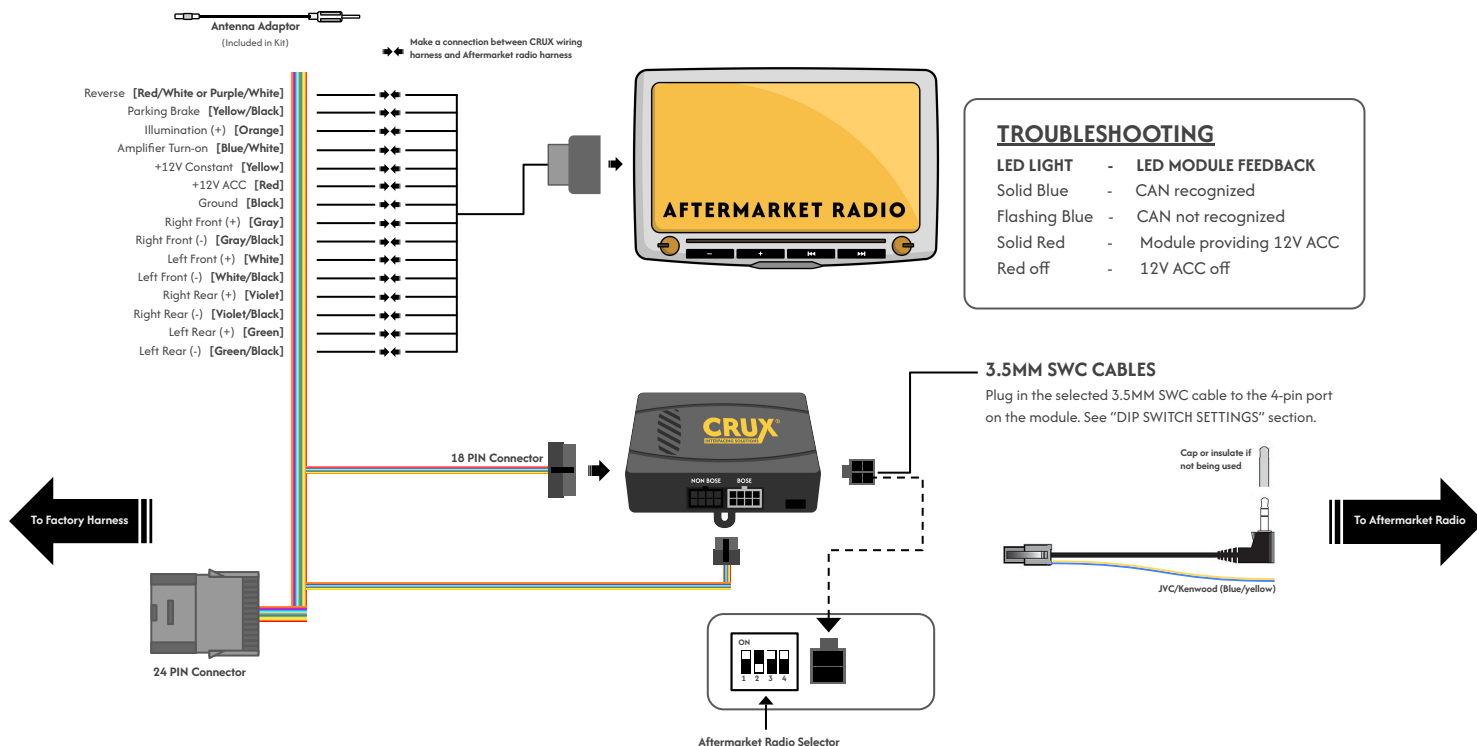
PARTS INCLUDED:



INSTALLATION DIAGRAM (TYPE A):



INSTALLATION DIAGRAM (TYPE B):



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

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:



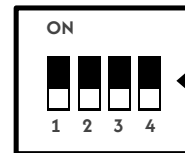
Note that there are some radios that only have SWC1 and SWC2, in this case "shield" does not need to be connected.

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



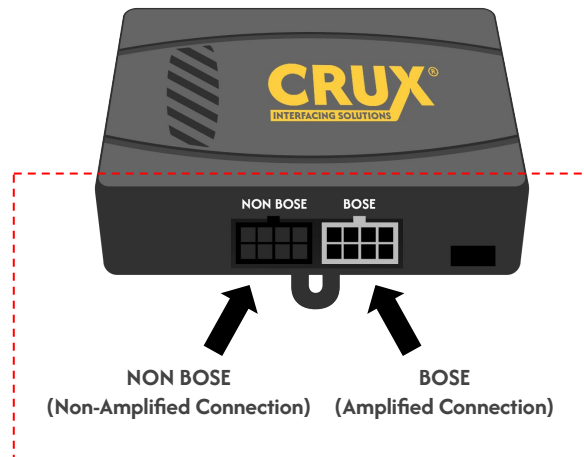
NOTE:

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:

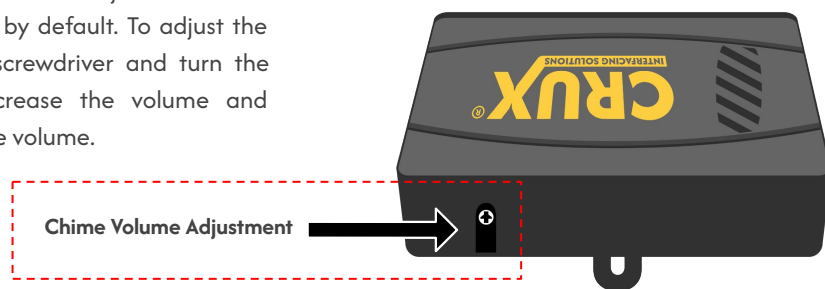
If the vehicle is equipped with an amplified audio system, the DKGM-51 has a built-in audio level adaptor that outputs the proper audio level from the aftermarket radio to the factory amplifier. To use this feature, plug in the male 8-PIN connector on the DKGM-51 harness to the GRAY female 8-PIN connector on the DKGM-51 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-51 module.



CHIME VOLUME ADJUSTMENT:

The DKGM-51 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.



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-51 kit includes:



Before installation:

1. Locate the main trim ring.
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 A on page 5)
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 B on page 5)

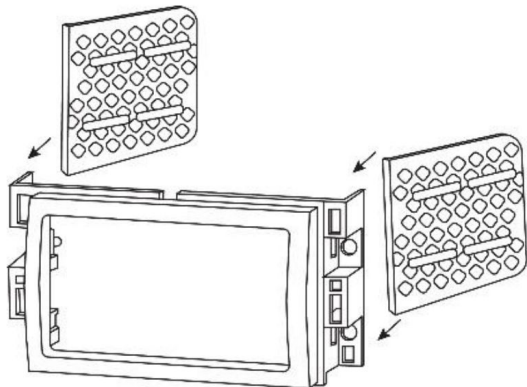


Diagram A

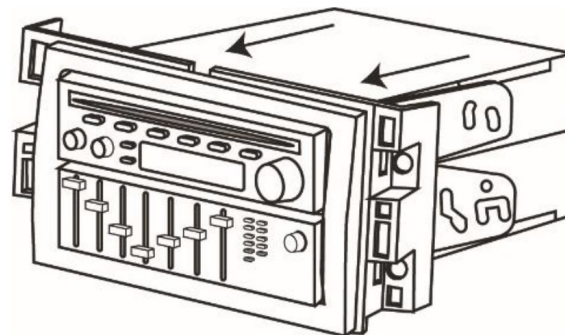


Diagram B

VEHICLE APPLICATIONS TYPE A HARNESS:

YEARS	MAKE	MODEL	YEARS	MAKE	MODEL
2007-2010	CHEVROLET	Cobalt	2007-2010	SATURN	Aura
2006-2011	CHEVROLET	HHR	2007	SATURN	Ion
2008-2012	CHEVROLET	Malibu	2007-2009	SATURN	Sky
YEARS	MAKE	MODEL			
2007-2010	PONTIAC	G5			
2006-2010	PONTIAC	Solstice			

VEHICLE APPLICATIONS TYPE B HARNESS:

YEARS	MAKE	MODEL
2005-2006	CHEVROLET	Cobalt
2004-2007	CHEVROLET	Malibu
YEARS	MAKE	MODEL
2005-2009	PONTIAC	G5

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	Preset
Arrow Down ▼	Seek Down	Preset
SRCE	Source Change	Preset
▶	Play/Pause	Preset
Voice	Phone Pickup	Voice Command
Mute	Mute	Phone Hang Up

EXAMPLE APPLICATIONS:

- Chevrolet Malibu 2004-2012