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## DKGM-16B

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

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**PRODUCT MANUAL**  
**VER.071626**

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## 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

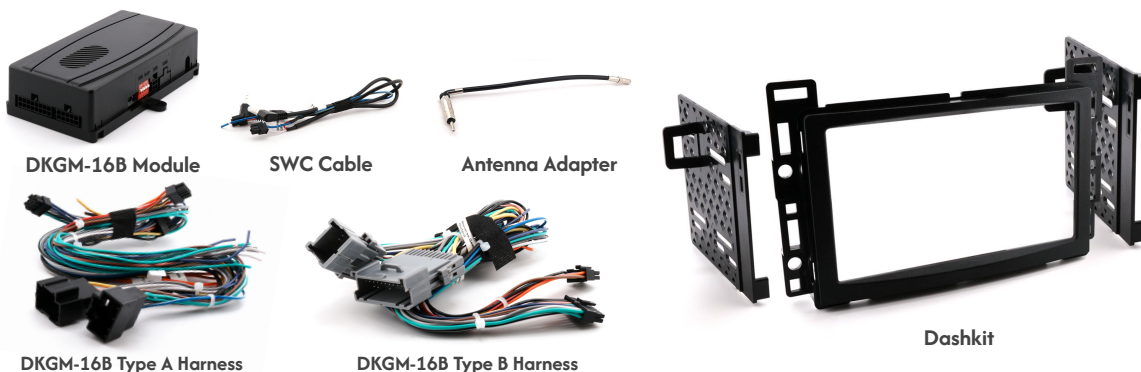
**WEBSITE:**

[www.cruxinterfacing.com](http://www.cruxinterfacing.com)

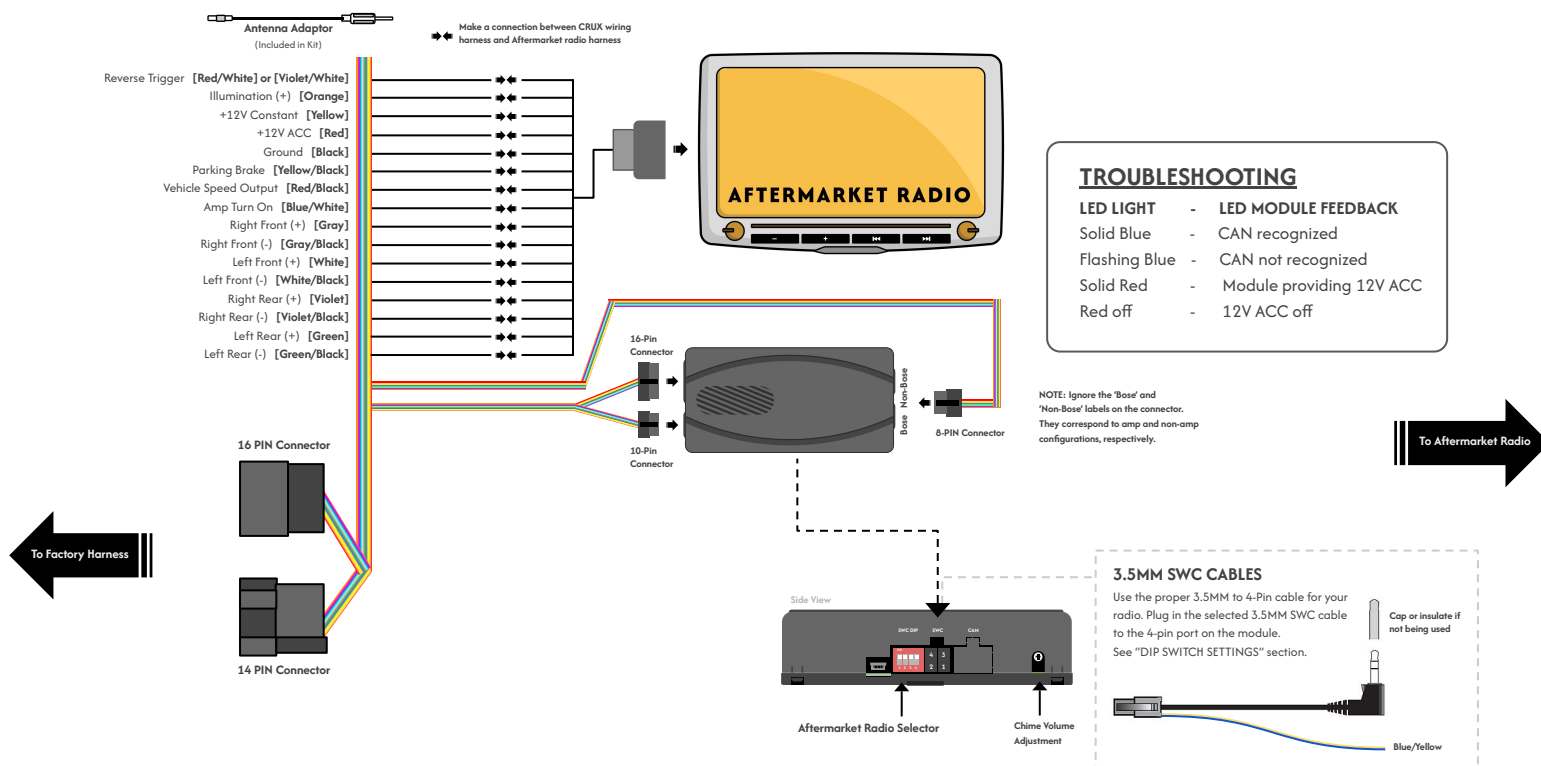
## PRODUCT FEATURES:

- 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 Non-Bose and Bose amplified systems.
- Provides navigational outputs: Reverse Output, Parking brake Output, Illumination, & Vehicle Speed Sense
- Retains factory OnStar<sup>®</sup>
- Retains chime functions.
- EIA color coded wiring for easy installation.

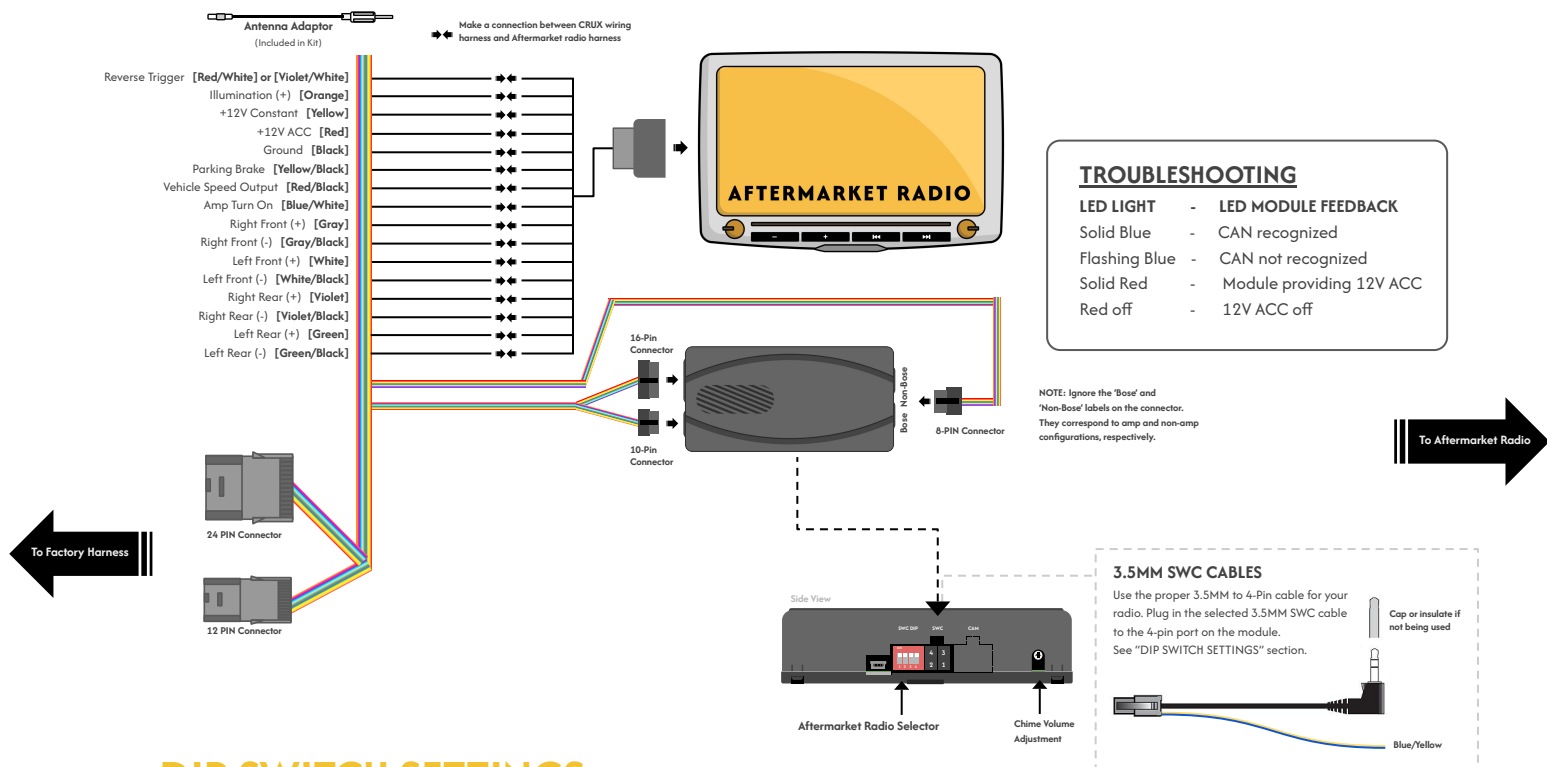
## PARTS INCLUDED:



## 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 |
| 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:

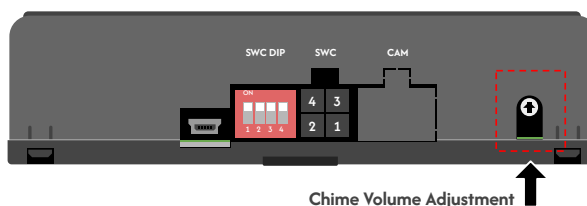


If the vehicle is equipped with an amplified audio system, the DKGM-16B has a built-in audio level adaptor that outputs the proper audio level from the aftermarket radio to the factory amplifier. To use this feature, plug in the male 8-PIN connector on the DKGM-16B harness to the Gray female 8-PIN connector on the DKGM-16B 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 8-PIN connector to the BLACK female 8-PIN on the DKGM-16B module.

## CHIME VOLUME ADJUSTMENT:

The DKGM-16B 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-16B 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)**

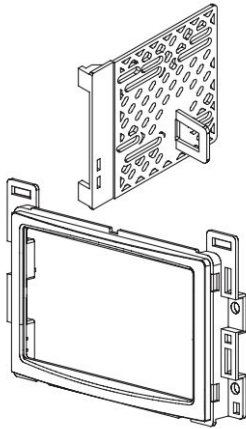


Diagram A

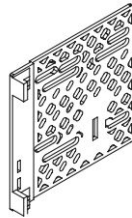


Diagram B

## VEHICLE APPLICATIONS TYPE A HARNESS:

| YEARS     | MAKE      | MODEL    | YEARS     | MAKE   | MODEL |
|-----------|-----------|----------|-----------|--------|-------|
| 2007-2010 | CHEVROLET | Cobalt   | 2007-2009 | SATURN | Aura  |
| 2006-2011 | CHEVROLET | HHR      | 2007      | SATURN | Ion   |
| 2008-2012 | CHEVROLET | Malibu   | 2007-2010 | SATURN | Sky   |
| YEARS     | MAKE      | MODEL    |           |        |       |
| 2007-2009 | PONTIAC   | G5       |           |        |       |
| 2010      | PONTIAC   | G6       |           |        |       |
| 2006-2009 | PONTIAC   | Solstice |           |        |       |

## VEHICLE APPLICATIONS TYPE B HARNESS:

| YEARS     | MAKE      | MODEL  |
|-----------|-----------|--------|
| 2005-2006 | CHEVROLET | Cobalt |
| 2004-2007 | CHEVROLET | Malibu |
| YEARS     | MAKE      | MODEL  |
| 2005-2009 | PONTIAC   | G6     |

## COMPATIBLE RADIOS:



2009 Pontiac G6



2009 Chevrolet Malibu



2006 Pontiac G6



2005 Chevrolet Malibu