



### 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.

### Vehicle Applications

#### 16 and 14 PIN CONNECTORS

##### CHEVROLET

2007-2010	Cobalt
2006-2011	HHR
2008-2012	Malibu

##### PONTIAC

2007-2010	G5
2006-2010	Solstice

##### SATURN

2007-2010	Aura
2007	Ion
2007-2009	Sky

#### 24 PIN CONNECTOR

##### CHEVROLET

2005-2006	Cobalt
2004-2007	Malibu

##### PONTIAC

2005-2009	G6
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### Notes

1. **DOES NOT** support ONSTAR.

### Parts Included



GM-51 Module



GM-2A Harness



GM-2B Harness



SWC Cables

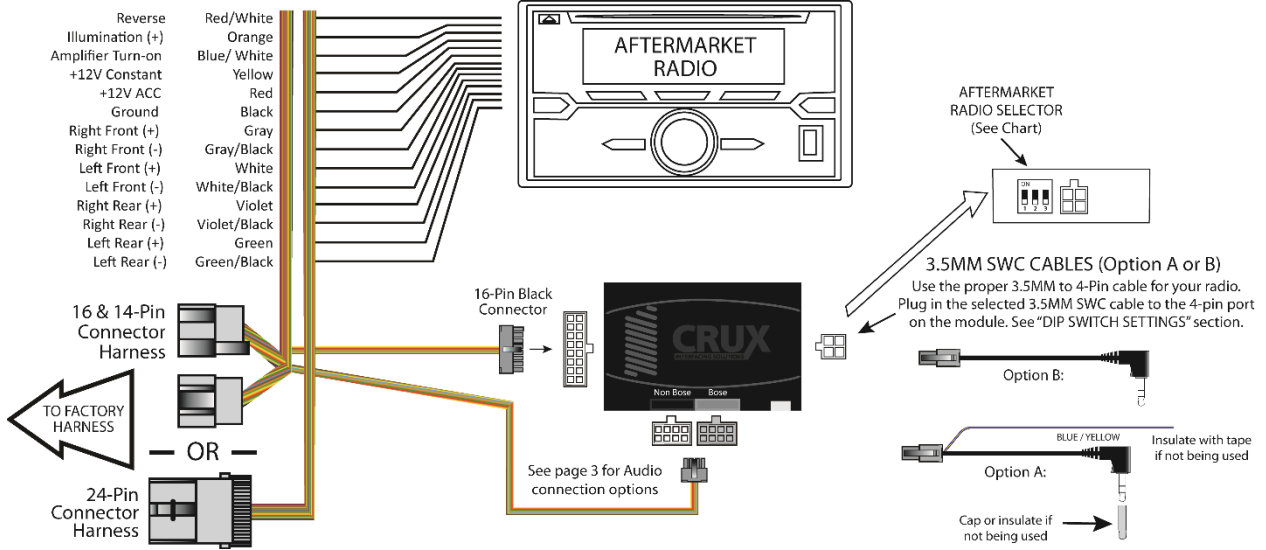


Antenna Adaptor



Dash Kit

### Installation Diagram

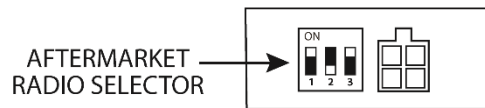


### DIP Switch Settings

#### SETTING THE AFTERMARKET RADIO BRAND

With the key in the off position, set the DIP switches to the corresponding radio listed below.

RADIO BRAND:	DIP:	1	2	3
Fahrenheit, Jensen, Pioneer		OFF	ON	ON
Power Acoustik, Sound Stream		OFF	ON	ON
Alpine		OFF	OFF	OFF
Clarion		ON	ON	OFF
Kenwood		ON	ON	ON
JVC		ON	OFF	ON
Sony, Boss		ON	OFF	OFF



#### 3.5MM SWC CABLE

The GM-51 Module allows for both types of connections:

**OPTION A** is used for ALPINE, CLARION, JVC, and KENWOOD units (Blue/Yellow wire is attached)

**OPTION B** is used for BOSS, DUAL, FAHRENHEIT, JENSEN, POWER ACOUSTIK, PIONEER, SONY and SOUND STREAM units.

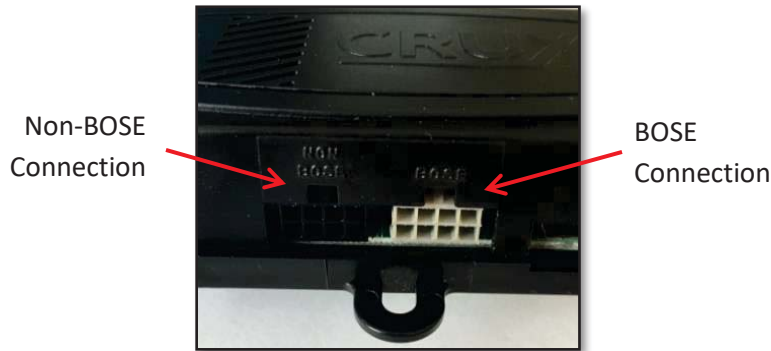
**NOTE:** Cap or insulate the 3.5mm plug or Blue/Yellow wire if not being used.



#### Selecting the Audio System

If the vehicle is equipped with a Bose system, the GM-51 has a built-in Bose adaptor that allows the proper audio input gain from the aftermarket radio to the Bose amplifier. To use this feature, plug in the male 8-pin connector on the harness to the GRAY female 8-pin connector on the GM-51 module. The module is also labeled "Bose" and "Non Bose" to avoid confusion. (see picture below)

If the vehicle is NOT equipped with a Bose system, plug in the male 8-pin connector to the BLACK female 8-pin on the GM-51 module.



#### CHIME VOLUME ADJUSTMENT

The GM-51 module 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.

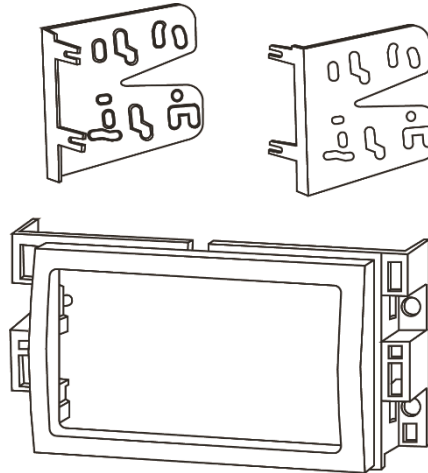




### Dash Kit Installation

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:

- (1) Main trim ring
- (1) Left ISO mounting bracket
- (1) Right ISO mounting bracket



### Installation:

#### 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)
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)

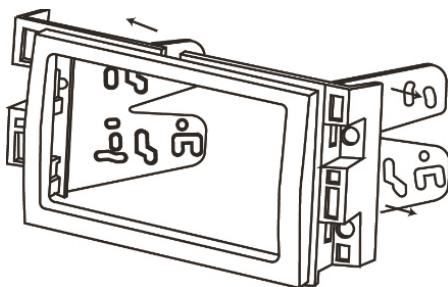


Diagram A

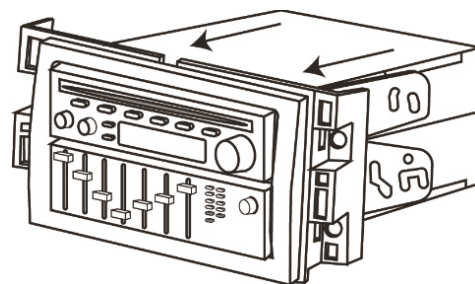


Diagram B



### STEERING WHEEL CONTROL BUTTON FUNCTIONS

<u>SWC Button</u>	<u>SHORT PRESS</u>	<u>LONG PRESS</u>
<b>PIONEER</b> VOL + VOL - Arrow Up ▲ Arrow Down ▼ Voice	Step Increment Step Decrement Preset Up Preset Down Pick Up Call	Continuous VOL + Continuous VOL - Seek Up End Call Activate VR/Deactivate VR

<u>SWC Button</u>	<u>SHORT PRESS</u>	<u>LONG PRESS</u>
<b>ALPINE</b> VOL + VOL - Arrow Up ▲ Arrow Down ▼ Voice  *NOTE:	Step Increment Step Decrement Seek Up Seek Down Pick Up Call  To Deactivate VR = Say "CANCEL"	Continuous VOL + Continuous VOL - None End Call Activate VR*/Deactivate VR*  BT Mode Active: Voice = Toggle between 1 <sup>st</sup> and 2 <sup>nd</sup> Call

<u>SWC Button</u>	<u>SHORT PRESS</u>	<u>LONG PRESS</u>
<b>CLARION</b> VOL + VOL - Arrow Up ▲ Arrow Down ▼ Voice	Step Increment Step Decrement Preset Up Preset Pick Up Call	Continuous VOL + Continuous VOL - Seek Up End Call Mute On/Off

<u>SWC Button</u>	<u>SHORT PRESS</u>	<u>LONG PRESS</u>
<b>JVC</b> VOL + VOL - Arrow Up ▲ Arrow Down ▼ Voice  NOTE:	Step Increment Step Decrement Seek Up Seek Down Pick Up Call  To Deactivate VR = Say "CANCEL"	Continuous VOL + Continuous VOL - M-Seek Up End Call Activate VR

<u>SWC Button</u>	<u>SHORT PRESS</u>	<u>LONG PRESS</u>
<b>KENWOOD</b> VOL + VOL - Arrow Up ▲ Arrow Down ▼ Voice  NOTE:	Step Increment Step Decrement Seek Up Seek Down Pick Up Call / Call History On/Off  To Deactivate VR = Say "CANCEL"	Continuous VOL + Continuous VOL - None End Call / Deactivate VR Activate VR



## **BOSS Radio SWC Programming**

### **SWC Radio Wiring connection**

SWC Key1 (Brown-wire) connect to Female 3.5 mm Jack - Brown wire  
SWC Key2 (White-wire) connect to Female 3.5 mm Jack - Brown/White wire  
SWC GND (Black-Wire) connect to Radio Negative wire (Black)

### **Programming the Radio**

Press: [SETTING] > [STEER] > [RESET] > [High Z]

Press the Steering Wheel Control (SWC) buttons set the values as listed below:

Vol - [ 4.07]

Vol + [ 3.66]

Seek - [ 3.37]

Seek + [ 2.98]

Mode [1.39]

OFF Hook [ 0.00]

The Value in the bracket [X.XX] will vary and will be used as parameter for each assigned function.

Press: [Assign] > [4.07] > [Vol-], then the [4.07] will be replaced with [ Vol-]

With [Assign] highlighted:

Press: [3.66] > [Vol+], then the [3.66] will be replaced with [Vol+]

Press: [3.37] > [Seek-], then the [3.37] will be replaced with [Seek-]

Press: [2.98] > [Seek+], then the [2.98] will be replaced with [Seek+]

Press: [1.39] > [Mode], then the [1.39] will be replaced with [Mode]

Press: [0.00] > [Call], then the [0.00] will be replaced with [Call]

Press: [Enter] for Save the setting and Exit

## PRODUCT FEATURES:

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- 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.

## NOT :

Does **NOT** retain OnStar.

## PARTS INCLUDED:



SWRGM-51 MODULE



GM-51A HARNESS



GM-51B Harness

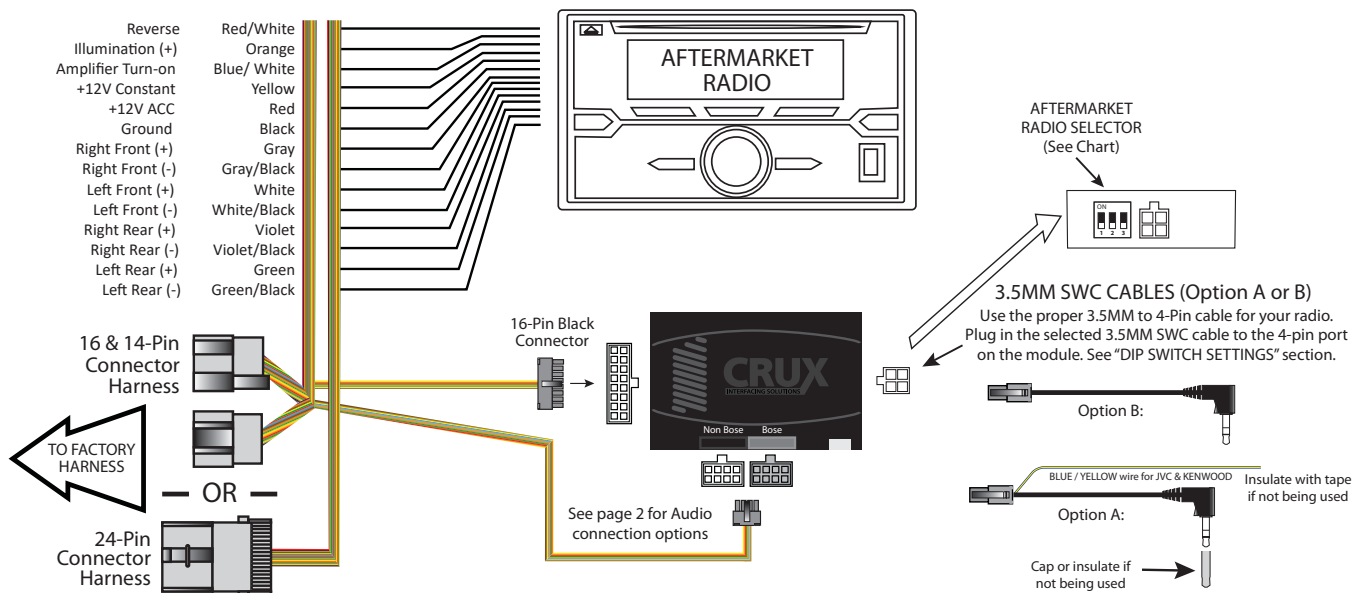


SWC CABLES



Antenna Adapter

## INSTALLATION DIAGRAM:



**DI S I T S TTINGS:**

**AFTERMARKET RADIO DIP SWITCH SETTINGS:**

RADIO BRAND:	DIP#:	1	2	3
Atoto, Dual, Fahrenheit, Jensen		OFF	ON	ON
Pioneer, Power Acoustik, Soundstream		OFF	ON	ON
Blaupunkt, Most off-brand Radio		OFF	ON	ON
Alpine		OFF	OFF	OFF
Clarion		ON	ON	OFF
Kenwood		ON	ON	ON
JVC		ON	OFF	ON
Boss, Old Sony		ON	OFF	OFF
New Sony		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.

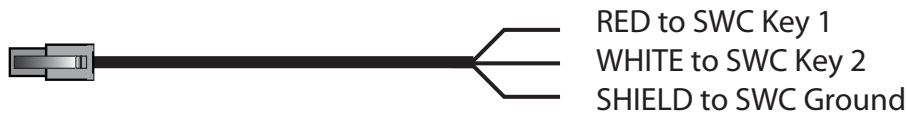
**4-PIN SWC CABLE**

Use the proper 3.5MM to 4-Pin SWC cable for the aftermarket radio you are using.

OPTION A is used for ALPINE, CLARION, JVC, and KENWOOD units (Blue/Yellow wire is attached)  
 OPTION B is used for ATOTO, BLAUPUNKT, BOSS, DUAL, FARENHEIT, JENSEN, POWER ACOUSTIK, PIONEER, SONY, SOUNDSTREAM and Most Off-Brand Radios.

NOTE: Cap or insulate the 3.5mm plug or Blue/Yellow wire 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:

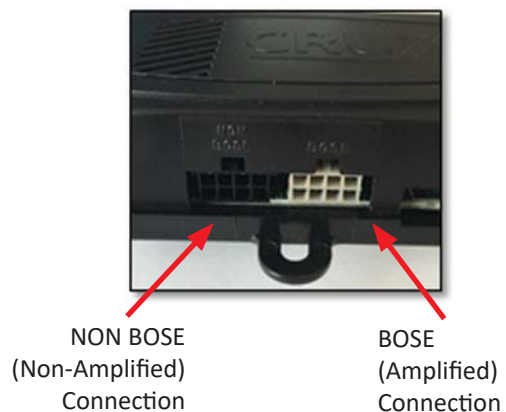


Note that there are some radios that only have SWC1 and SWC2, in this case "shield" does not need to be connected.

**S L TING T A D I O S S T M:**

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





**INSTALLATION:**

The SWRGM-51 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



**INSTALLATIONS:**

**16 and 14 PIN CONNECTORS**

**CHEVROLET**

2007-2010 Cobalt  
 2006-2011 HHR  
 2008-2012 Malibu

**PONTIAC**

2007-2010 G5  
 2006-2010 Solstice

**SATURN**

2007-2010 Aura  
 2007 Ion  
 2007-2009 Sky

**24 PIN CONNECTOR**

**CHEVROLET**

2005-2006 Cobalt  
 2004-2007 Malibu

**PONTIAC**

2005-2009 G6