

## 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.
- iPhone Voice Recognition (VR) feature from SWC on select 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 #CRUX2333A (sold separately).
- Retains factory backup camera.\*
- Retains factory backup sensors / park assist system.
- EIA color coded wiring for easy installation.

### NOTE:

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

## PARTS INCLUDED:



SWRGM-49 MODULE



SWRGM-49 HARNESS



SWC CABLES

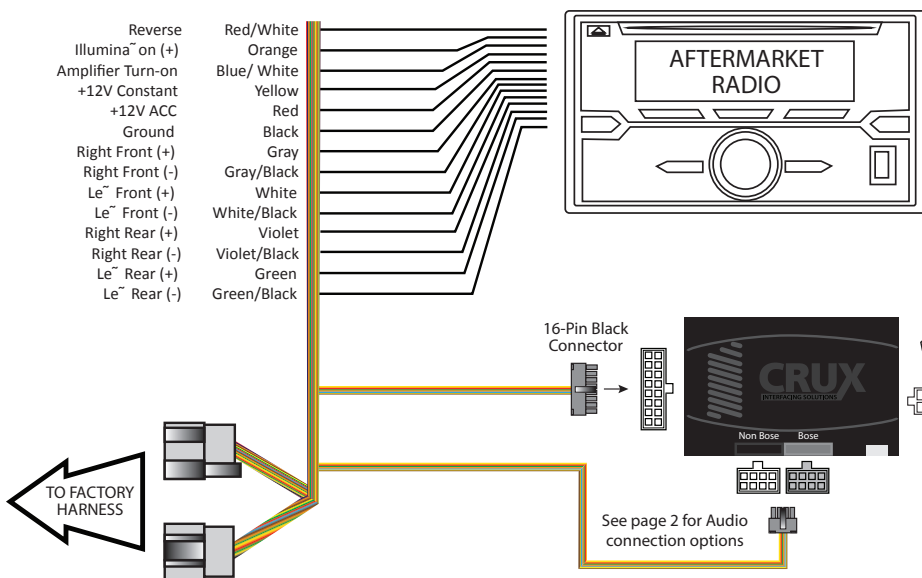


ANTENNA ADAPTER



Backup Camera Harness

## INSTALLATION DIAGRAM:



## TROUBLESHOOTING

LED LIGHT	LED MODULE FEEDBACK
Solid blue	CAN recognized
Flashing blue	CAN not recognized
Solid red	Module providing 12V ACC
Red off	12V ACC OFF

AFTERMARKET RADIO SELECTOR (See Chart)

3.5MM SWC CABLES (Option A or B)

Use the proper 3.5MM to 4-Pin cable for your radio. Plug in the selected 3.5MM SWC cable to the 4-pin port on the module. See "DIP SWITCH SETTINGS" section.

Option B:

Cap or insulate if not being used

Insulate with tape if not being used

Option A:



### DIP SWITCH SETTINGS:

#### 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 (option B) 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.

### SELECTING THE AUDIO SYSTEM:

If the vehicle is equipped with an amplified audio system, the SWRGM-49 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 SWRGM-49 harness to the GRAY female 8-pin connector on the SWRGM-49 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-49 module.



NON BOSE  
(Non-Amplified)  
Connection

BOSE  
(Amplified)  
Connection



## CHIME VOLUME ADJUSTMENT:

The SWRGM-49 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



## BACKUP CAMERA CONNECTION:

You can retain the factory back-up camera by using the CRUX 2543 harness included in the kit.

1. Connect the 16-pin back-up camera harness to the vehicle's 16-pin factory backup camera connector.
2. Connect the Yellow video RCA to the new aftermarket radio camera input.
3. Test the video feed before installing the radio back into the dashboard.



### **NOTE:**

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

## VEHICLE APPLICATIONS:

### **BUICK**

2008-2017 Enclave  
2006-2011 Lucerne

### **CADILLAC**

2007-2014 Escalade  
2007-2009 SRX

### **CHEVROLET**

2007-2013 Avalanche\*  
2007-2008 Equinox  
2008-2016 Express Van\*\*  
2006-2013 Impala / Impala SS  
2014-2016 Impala Classic  
2006-2007 Monte Carlo  
2007-2013 Silverado 1500-3500 Pickup\*  
2007-2014 Suburban\*  
2007-2014 Tahoe\*  
2009-2017 Traverse

### **GMC**

2007-2016 Acadia  
2017 Acadia Classic  
2008-2017 Savana\*\*  
2007-2013 Sierra 1500-3500 Pickup\*  
2007-2014 Yukon\*

### **HUMMER**

2008-2009 H2

### **PONTIAC**

2007-2009 Torrent

### **SATURN**

2007-2009 Outlook  
2008-2009 Vue

### **SUZUKI**

2007-2008 XL7

1. \*NOT compatible with 2012-Up SUVs/Trucks that are equipped with factory-installed Navigation radios.
2. \*\*NOT compatible with Express and Savana vans that are powered by a diesel engine.

