

## PRODUCT FEATURES:

- Retains Steering Wheel Controls via built in pre-programmed interface.
- Retains Factory OnStar.
- Retains Factory Bluetooth in Vehicles 2008-upwards if equipped with new OnStar Device.
- Retains Factory Warning Chimes.
- Works with Non-Bose and BOSE amplified systems.
- Fully functional for replacing both types of 11-Bit Radios. Includes two harnesses with 24-Pin or 14- & 16-Pin connectors.

## NOTES:

1. The OnStar volume output is defaulted to low gain.
2. Chime includes: seat belt, check engine, key in ignition, low fuel, low oil and lights on.

## PARTS INCLUDED:



SOOGM-16B Module



14 & 16 Pin Harness



24 Pin Harness



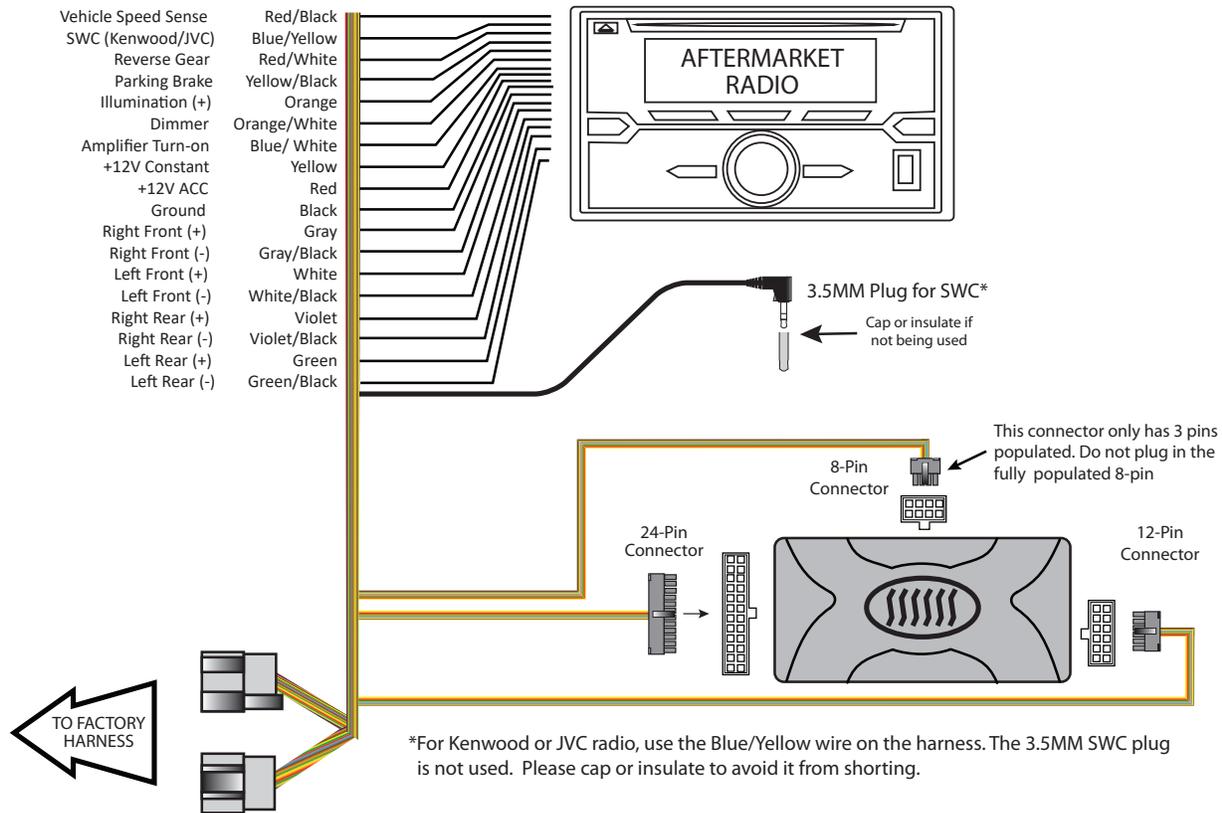
Antenna Adapter

## TESTING FOR HIGH OR LOW LEVEL SYSTEM:

Before starting the installation, you will need to perform this simple test to determine if the audio system is either a “High” or “Low” level output system. Take the SOOGM-16B and plug in the t-harness. Tape off the ends of the wires on the harness to avoid any shorting as this could damage the module. Now plug in the SOOGM-16B module harness to the factory radio harness. On the SOOGM-16B control module set the rotary switch to “0”. If you disconnected the battery, reconnect it. Turn the ignition key to “on” or “Accessory” position. Find the OnStar button which will be located either on the steering wheel controls, or the rear view mirror. Push the OnStar “Phone” Icon button and listen for the OnStar “Greeting”, if you hear the greeting move the rotary switch to “9” for High level input. Now press the OnStar “Phone” icon again to exit OnStar mode. Turn off the ignition key and again disconnect the vehicle’s battery. You will NOT need to perform the “Setting audio level control” as the module has now been set to the correct audio input level. If however you hear nothing at all the system is “Low” level and a speaker level converter will be needed and you will need to perform the “Setting audio level control” in this guide.



**INSTALLATION DIAGRAM:**



**SETTING AUDIO CONTROL:**

At this point you should know what audio output level you have from the “Test for High / Low level audio systems”. If your test indicated that you had a “high” Level output and you were able to hear the OnStar “Greeting” there is no need to make any changes. Also if the vehicle has steering wheel controls you may skip down to “DIP SWITCH SETTINGS”, if not go to OnStar Volume Adjust for vehicles without steering wheel control. However if the test indicated a low level output you will need to adjust the SOOGM-16B module. Start by Locate the rotary switch on the SOOGM-16B and set it to “9”. You must have made all the connection from the SOOGM-16B to the radio harness. Now plug in your completed assembly to the vehicle factory radio plugs. Turn the ignition key to the “on” or “accessory” position. You should now see the radio turn on. Now locate the OnStar button, this can be found on the swc, or rear view mirror or steering wheel. Press the OnStar “Phone” icon button to enter OnStar mode; you should now hear the OnStar “Greeting”, move the rotary switch to “0”. Now your level is set. If the vehicle has steering wheel controls you may skip down to “Radio Remote Select”. However if the vehicle has no steering wheel controls you will need to adjust the volume on the OnStar, go directly to the next step “OnStar Volume Adjust for vehicles without steering wheel control”. If no further adjustment is needed turn ignition key to OFF and go to the “DIP SWITCH SETTING”.



**DIP SWITCH SETTINGS:**

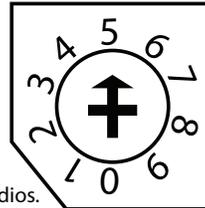
**AFTERMARKET RADIO DIP SWITCH SETTINGS:**

With the key in the off position, turn the rotary radio selector to the corresponding aftermarket radio.

**RADIO REMOTE SELECT:**

- 0 Pioneer
- 1 Alpine
- 2 Clarion
- 3 Kenwood
- 4 JVC
- 5 Sony/Jensen/Dual

Use a small screw driver to make adjustments.



Note: Seek Up is not supported on Jensen radios.

**USING THE BLUE/YELLOW SWC WIRE:**

If a Kenwood or JVC radio is used, you must connect the BLUE/YELLOW SWC wire of the GM-16B harness to the BLUE/YELLOW SWC wire of the aftermarket radio harness. Follow the radio selector settings above.

**ONSTAR VOLUME ADJUSTMENT:**

This step is only needed if there are no steering wheel controls and the volume level is either too high or too low. You may skip this step if the OnStar volume is acceptable. Turn the ignition key to the “on” or “accessory” position. Start by pressing the Onstar button and listen to the “Greeting”, now say “HELP” and listen to the help menu audio as you adjust the volume. While the “HELP” menu is playing turn the rotary dial clockwise to increase or counter clockwise to decrease volume. You will a Soft “Clicking” sound as you turn the rotary dial through the speakers. Move the dial in 1 second increments until desired volume is achieved. Watch closely as you turn, DO NOT STOP at the “0” or “9” position as this will change your High/Low setting, you may go past these numbers when adjusting but do not land on them for more than 2 seconds or your settings will change. Once you are satisfied with the volume level press the OnStar “Phone” icon to exit OnStar mode. Your level is now set. Please ensure that the volume is set at a level that is comfortable for the end user as there will be no other adjustment once the installation is complete.

**VEHICLE APPLICATIONS:**

**16 and 14 PIN CONNECTORS**

**CHEVROLET**

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

**PONTIAC**

- 2007-2009 G5
- 2010 G6
- 2006-2009 Solstice

**SATURN**

- 2007-2009 Aura
- 2007 Ion
- 2007-2010 Sky

**24 PIN CONNECTOR**

**CHEVROLET**

- 2005-2006 Cobalt
- 2004-2007 Malibu

**PONTIAC**

- 2005-2009 G6

