

**2007-UP SELECT GENERAL MOTORS
WITH ONSTAR® HIGH-SPEED LAN
STEREO REPLACEMENT INTERFACE**

The GM21SR digital interface will allow you to connect your aftermarket radio to a GM vehicle with standard Bose® and OnStar system. The GM21SR is designed to be used with any aftermarket radio.

APPLICATION GUIDE

SEE IMPORTANT APPLICATION INFORMATION BELOW

Buick**Cadillac****Chevrolet**

2006-07

Impala

2007

Silverado (new body style)

2007

Tahoe

GMC

2007

Yukon

This product retains the following factory equipped features:

- Standard Bose
- OnStar
- Warning Chimes
- Folding Mirrors (including reverse)
- Park Assist (front/rear)
- Heated Seats
- A/C Fan Speed
- Turn Signal (clicker)

SOME FEATURES MAY NEED TO BE TURNED ON USING FACTORY MENU OPTIONS!

APPLICATION NOTES: Not for use on Premium Bose Sound Systems (includes Y91/z75 Bose). Code may be found on the service parts sticker (normally in the glove box).

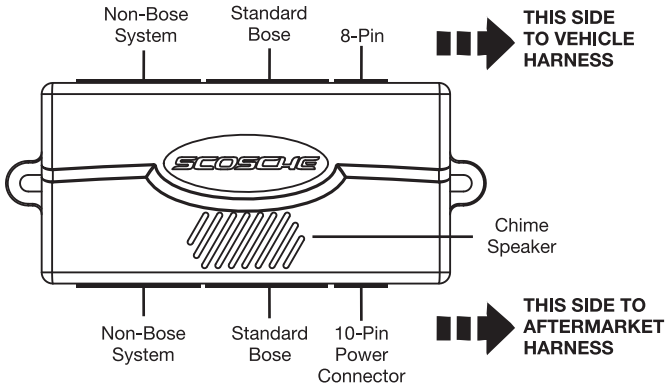
PRELIMINARY

BEFORE BEGINNING: READ THIS ENTIRE INSTRUCTION MANUAL FIRST.

CAUTION: Disconnect negative battery terminal to avoid short circuits. Read ALL manufacturers warnings regarding air bags and electrical systems in your vehicle. We recommend the use of a volt/ohm meter or computer-safe LED probe when checking wiring. A test light or grounded light probe if used improperly can cause damage to the vehicle's computer and/or diagnostic system.

IMPORTANT

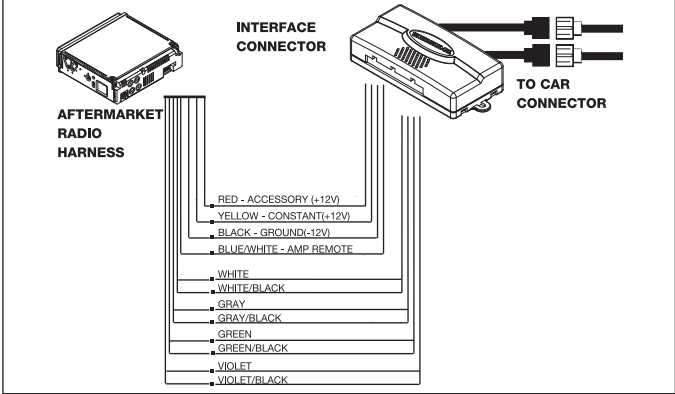
Be sure to connect the audio input & output plugs according to the type of factory audio system. If the factory system is not amplified, then use the plugs that are marked "**STANDARD SPEAKER SYSTEM**". If the vehicle has a standard amplified OR standard Bose sound system, then use the plugs designated as "**BOSE AMPLIFIED SYSTEM**".



INSTALLATION

1. Disconnect from the battery the negative battery cable to avoid any short circuits.
2. Remove and unplug factory stereo. If needed, call Scosche Tech Support (800) 621-3695 x3 for stereo removal steps specific to your vehicle.
3. Match and connect the appropriate wires from the GM21SR harness to the appropriate wires of the plug provided with your aftermarket stereo. For example, connect the +12V yellow constant lead from your stereo to the yellow wire on the GM21SR harness. The red +12V accessory wire coming from the GM21SR module is rated at 5 Amps Max for a SINGLE aftermarket car stereo only. Connecting additional accessories to the red wire can cause DAMAGE to the GM21SR module! The color codes are designed to match MOST brands of aftermarket car stereos (see diagram).
4. Tape all unused wires to prevent wires from short circuiting.
5. Reconnect the negative battery cable.
6. Connect the 14- and 16-Pin female harness to the factory 14- and 16-Pin plugs.
7. Connect the 8- and 16-Pin male connector to the GM21SR interface according to the factory audio system. WARNING chime will be heard.
8. Connect the 10- and 12-Pin connectors to the GM21SR interface according to factory audio system. As you install your new stereo, place the GM21SR module in the rear of the dash cavity behind the stereo. Cable ties or double sided tape can be used to secure the module, but are not included.
9. Start the vehicle and make sure the radio turns on and audio is heard.

DIAGRAM



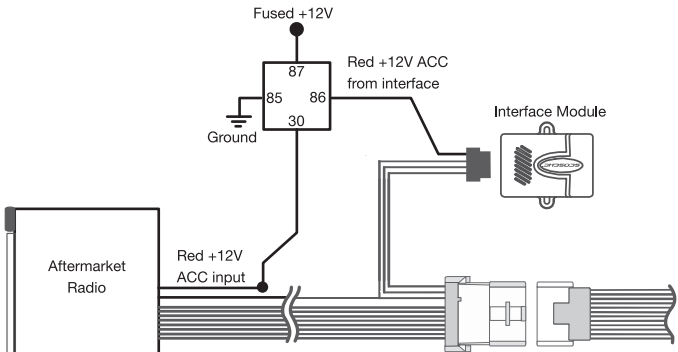
WIRE COLOR CODES

White	= Left Front Positive (+)	Black	= Chassis Ground (-12V)
White/Black	= Left Front Negative (-)	Yellow	= +12 Volt Battery Constant
Green	= Left Rear Positive (+)	Red	= +12 Volt Ignition Switched
Green/Black	= Left Rear Negative (-)	Blue/White	= +12V Remote Output (Amp remote, Radio ON Signal)
Violet	= Right Rear Positive (+)	Orange	= Illumination Output (Optional)
Violet/Black	= Right Rear Negative (-)	Brown	= Phone Mute (Optional)
Gray	= Right Front Positive (+)		
Gray/Black	= Right Front Negative (-)		

The color codes used on this car stereo connector conform to the standards set by the E.I.A. (Electronics Industry Association). They may differ from the wiring codes found on your specific car stereo. Always refer to your stereo owner's manual for wiring details about your particular car stereo. Be sure to insulate unused wires from each other and from ground. Failure to do so can result in damage to the stereo and/or the vehicle's electrical system.

INSTALLATION NOTE

Aftermarket high-power stereos can overload the Red +12V ACC wire provided by the interface module causing the output to randomly shut off. This can be encountered on either Standard audio or Bose system installations. To correct this problem, connect a relay to the Interface's Red Accessory output wire and a Fused +12V power source to power the Aftermarket head unit. See Diagram.



OPERATION

1. With engine running and audio playing, press the OnStar button (if equipped) to confirm functionality. Then cancel/Turn Off the OnStar (audio should resume).
2. With all doors closed, turn key to the OFF position and RAP (Retained Accessory Power) will keep the radio on.
3. With key in the ignition, open the driver's door. Audio will turn off and warning-chime will be heard through the GM21SR built-in speaker.
4. Turn the key to the "ON" position (start vehicle). Test left/right turn signal (audible-clicking from turn signals).
5. Only if your vehicle is equipped with Parked-Assist: Disengage parking brake. Have someone stand behind the vehicle (at a safe distance) and put the vehicle in reverse. Confirm by having someone walk towards the sensors. Put the vehicle back in the parking position.
6. Confirm remaining options if equipped (listed on front page).

ADJUST ONSTAR VOLUME:

With engine running, press the OnStar button. Moderately tap the steering wheel volume UP/DOWN buttons (if present) to adjust volume UP or DOWN. If not, with the OnStar activated, SLOWLY turn the dimmer knob clock-wise to adjust UP or Down.

ADJUSTING WARNING CHIME

The GM21SR interface gives you the ability to adjust the chime audio level (from soft to loud), in order to suit your personal needs. Follow the steps below:

1. With the ignition key OFF and key resting in ignition, turn On vehicle headlights.
2. Open driver's door. At this point you will hear a reminder chime indicating the key is in the ignition and lights are on.
3. SLOWLY, rotate the dash illumination dimmer knob to make chime audio adjustments. Turn the knob up to increase chime volume level or turn it down to decrease.
4. Once the desired volume level is achieved, turn off headlights and close the door. Your personal chime setting will be stored by the GM21SR. You can re-adjust your dash lighting dimmer level with the door CLOSED and headlights on.

TROUBLESHOOTING

PROBLEM	TIP/SOLUTION
Vehicle does not recognize the interface	It is recommended to turn "ON" the ignition key to the "RUN" position for approximately 5 seconds and OFF before beginning the first test of the newly installed interface.