



GM22SR

FACTORY STEREO REPLACEMENT INTERFACE WITH INTERNAL SPEAKER (GMLAN DATA SYSTEM)

This GM22SR car stereo replacement interface will allow you to replace your GM factory stereo and retain all safety and warning chimes with your NEW aftermarket car stereo.

READ THIS FULL INSTRUCTION MANUAL BEFORE BEGINNING

APPLICATION GUIDE

GM LAN VEHICLE APPLICATIONS

BUICK	
2007	Lucerne
CADILLAC	
2007	Escalade/ESV/EXT
CHEVROLET	
2007	Avalanche
2006-07	Impala
2006-07	Monte Carlo
2007	Silverado (new body)
2007	Tahoe
GMC	
2007	Sierra (new body)
2007	Yukon/Yukon XL

WHY YOU NEED THIS PART

Your factory stereo is an integral part of your vehicle's SAFETY and WARNING CHIME systems. If the stereo is removed without the proper installation accessory, various warning chimes and/or some of your vehicle may be lost.

- | | |
|----------------------------------|---------------------------------|
| - Seatbelt warning chime | - Key left in ignition chime |
| - Lights left on chime | - +12V Accessory Power at radio |
| - RAP (Retained Accessory Power) | - Low fuel |
| - Check engine/Service indicator | - Low oil Level |

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).

Not Compatible with OnStar® Systems

IMPORTANT

How to Test for Premium Bose systems:

There are 2 types of Bose systems available in some models of vehicles listed on front page. Turn factory radio volume up and down rapidly. If the sound system reacts immediately, then the system is a standard Bose, not a Premium Bose. If the sound system volume does not react immediately but has a noticeable delay, the system is a Premium Bose and not compatible with the GM22SR. If Premium Bose amplifier is not used or is bypassed, then the GM22SR can be used to retain warning chimes only. Alternate parts are available to INTEGRATE Premium Bose and OnStar systems. Premium Bose sound systems include Y91/Z75 Bose radio. Code may be found in the service parts sticker (normally in glove box).

PRELIMINARY

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.

WIRING COLOR CODES

White/Black = Left Front Negative (LF-)

Violet = Right Rear Positive (RR+)

Yellow = +12 Volt Battery Constant

Blue/White = +12V Remote Output (Amp remote, radio ON signal)

Red/White = Reverse Light Trigger (+12V when in reverse gear)

Orange/White = Auto Illumination

Green = Left Rear Positive (LR+)

Gray/Black = Right Front Negative (RF-)

Gray = Right Front Positive (RF+)

NOTE: The ACC output is rated at 5 amps. It is designed for aftermarket headunits ONLY. If you are using other hi-demand accessories, we recommend the use of an SPDT relay to drive those devices and prevent damage to GM22SR circuitry.

NOTE: The illumination output is rated at 2 amps. It is designed for aftermarket headunits with an illumination input ONLY. If you are using other hi-demand LIGHTED accessories such as aftermarket GAUGES, we recommend the use of an SPDT relay to drive those devices and prevent damage to GM22SR circuitry.

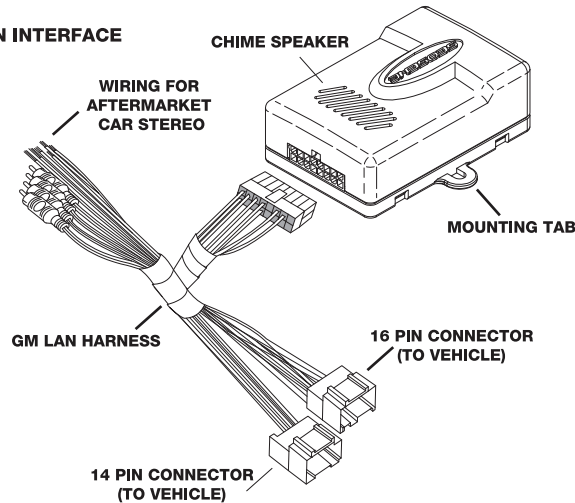
NOTE: The auto illumination wire is limited to LAN vehicles and if vehicle is equipped with auto sensing headlights. Please refer to your vehicles owner's manual for details.

OPERATION

There are no specific user operational steps for this product other than CHIME ADJUSTMENT as stated above. When connected and installed per these instructions, your aftermarket car stereo should operate just like the factory system did. All chimes will be reproduced by the speaker built inside the GM22SR located in the dash behind your stereo. The retained accessory power function of the stereo will continue to operate as normal. The GM22SR module will send the proper DATA commands to your vehicle's electronics module to keep your vehicle's diagnostics system functioning normally as with the factory stereo. Consult your stereo owner's guide for info to the operations of your car stereo.

GM22SR OVERVIEW

GM LAN INTERFACE



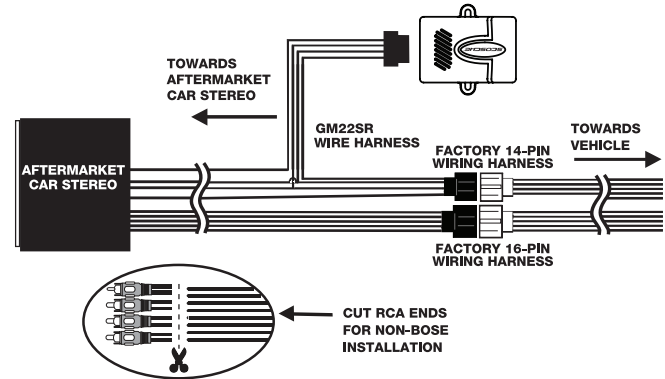
1. Disconnect the negative battery cable from the battery to avoid any short circuits.
2. Remove and unplug factory stereo.
3. Match and connect the appropriate wires from the GM22SR harness to the appropriate wires of the plug provided with your stereo.
4. For non-Bose installations, cut off RCA cable ends and connect wire directly to color coded speaker wires. For STD BOSE systems, use RCA line outputs from stereo.
5. The red +12V switched wire for your aftermarket is coming from the GM22SR module itself, not the vehicle harness.
6. **Note:** The parking brake, reverse and VSS (Vehicle Speed Sense) are all optional wires provided to help install aftermarket navigation radios.
7. Tape all unused wires to prevent short circuiting.
8. Reconnect the negative battery cable
9. Connect the 16-Pin harness to the GM22SR module.
10. Connect the 14-Pin and 16-Pin GM22SR connector to the factory harness.
11. As you install your new stereo, place the GM22SR module in the rear of the dash cavity behind the stereo.

GM22SR CHIME VOLUME ADJUSTMENT

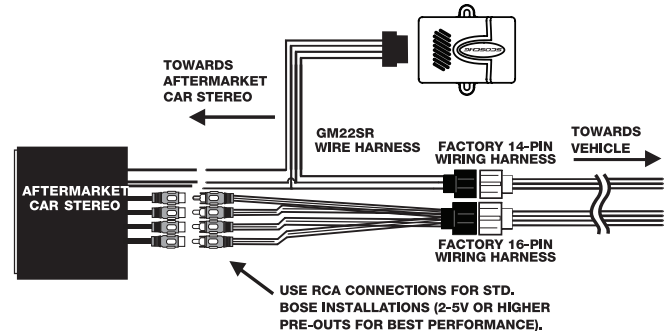
The GM22SR interface gives you the ability to adjust the chime audio level from soft to loud in order to suit your personal needs. Follow the steps below.

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 GM22SR. You can re-adjust your dash lighting dimmer level with the door CLOSED and headlights on.

GM LAN NON-BOSE WIRING DIAGRAM



GM LAN STANDARD BOSE WIRING DIAGRAM



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.