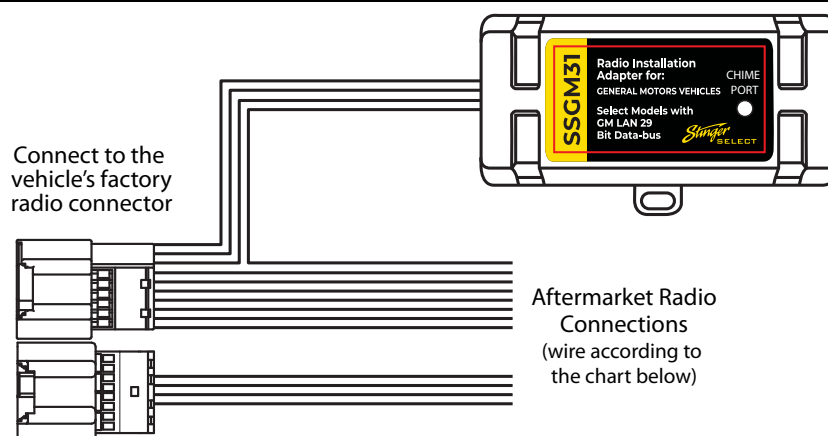


Introduction & Features

The SSGM31 allows the replacement of a factory radio in select General Motors vehicles with 29-bit LAN radios. Using this interface will retain factory features such as warning chimes, factory amplifier, and provides a data-bus generated 12-volt retained accessory power output (RAP). RAP keeps the radio powered after the key has been turned off, until the door is opened, just like the factory system. The SSGM31 also issues data commands that maintain a “healthy” system status to other vehicle systems.

Illustration / Schematic



Installation for vehicles not equipped with a Bose® system.

PLEASE NOTE: This Interface is intended for use in vehicles without OnStar® or when OnStar® does not need to be retained. Bose® audio systems can be retained with the use of a Adjustable line output converter (sold separately). Wiring instructions for the Adjustable line output converter are located on the next page.

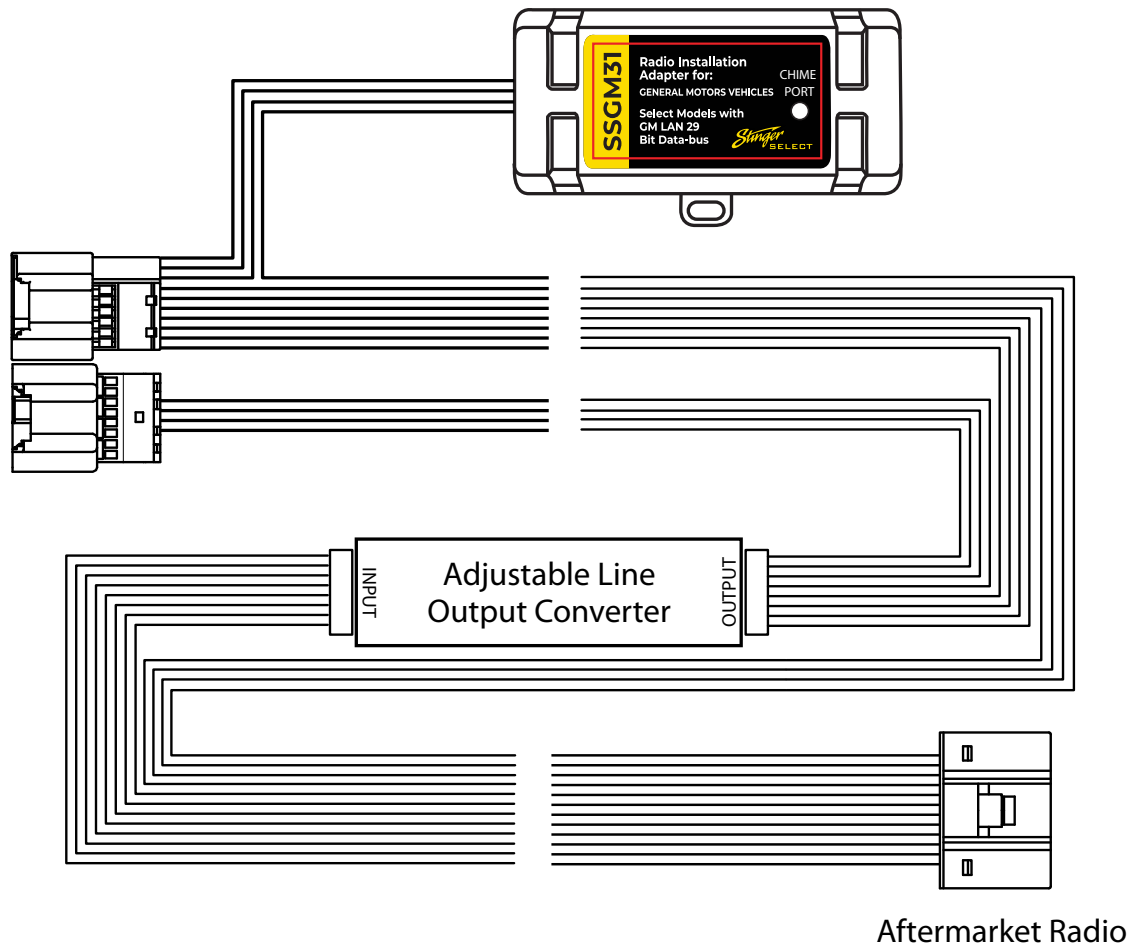
1. Wire your aftermarket radio's harness to the SSGM31 smart harness according to your radio's installation manual and the wiring connections chart below. In most cases you will connect matching colors of the smart harness to your aftermarket radio's wiring harness. The red accessory wire will support up to 10 amps of current draw.
2. It is recommended that all wiring connections be made with either crimp style “butt” connectors, crimp “bell” caps or soldered with the use of heat shrink.
3. Remove the factory radio and plug in the SSGM31's 14-pin & 16-pin harnesses into the factory vehicle harness. Dash disassembly and radio removal instructions are typically found in the radio installation dash kit. You may also find helpful video tutorials for your particular vehicle online.
4. Using the supplied length of wire, mount the interface within the dash of the vehicle using double sided tape or wire ties. Your warning chimes that used to play through your original radio will now be reproduced by the SSGM31 module. The sound will play from the small hole on the top of the module so it is important that you do not cover this hole when installing it inside the dash cavity. We recommend that you try to place it toward the driver's side of the dash facing into as open an area as possible. There are no adjustments to make, just mount your aftermarket radio and re-install your factory dash panels and you're done!

Wiring Connections

SSGM31 Wire Color	Radio Connection	Description
Yellow	Yellow	Constant Power (Memory)
Black	Black	Ground
Red	Red	Accessory Power (Key Switched)
Blue	Blue / White	Remote Amplifier Turn On
White	White	Front Left Speaker Positive (+)
White / Black	White / Black	Front Left Speaker Negative (-)
Gray	Gray	Front Right Speaker Positive (+)
Gray / Black	Gray / Black	Front Right Speaker Negative (-)
Green	Green	Rear Left Speaker Positive (+)
Green / Black	Green / Black	Rear Left Speaker Negative (-)
Purple	Purple	Rear Right Speaker Positive (+)
Purple / Black	Purple / Black	Rear Right Speaker Negative (-)

Installation for vehicles equipped with a Bose® system.

1. Connect your aftermarket radio's Constant Power, Accessory, Ground and remote wire to the SSGM31 smart harness according to your radio's installation manual and the wiring connections chart on the previous page. In most cases you will connect matching colors of the smart harness to your aftermarket radio's wiring harness. The red accessory wire will support up to 10 amps of current draw.
2. Connect the speaker wires from the aftermarket radio to the input of the adjustable line output converter. (see below)
3. Connect the speaker wires from the SSGM31 to the output of the adjustable line output converter. (see below)
4. Remove the factory radio and plug in the SSGM31's 14-pin & 16-pin harnesses into the factory vehicle harness. Using the supplied length of wire, mount the interface and line output adjustable converter within the dash of the vehicle with double sided tape or wire ties.
5. Follow the instructions that come with the adjustable line output converter regarding adjusting the input level. This will ensure that your factory Bose® system is receiving the proper input level.
6. After the desired audio level has been achieved, mount your aftermarket radio and re-install your factory dash panels and you're done!



Testing & verification

1. Turn the ignition on. The LED on the interface will turn on and the +12v accessory wire will turn on.
2. Turn on the radio and check balance and fade.
3. Turn off vehicle and remove key. RAP will be active & keep the radio on for 10 minutes or until the drivers door is opened.
4. The LED and radio will turn off when RAP turns off or the driver's door is opened.