



OS-3

General Motors OnStar® Interface Installation Instructions for GMLAN Vehicles Without Bose®



The OS-3 is a plug and play interface that allows replacement of a General Motors GMLAN factory radio. It will maintain operation of the OnStar® system. The OS-3 has on board switching and audio amplifiers which allow audio from the OnStar® system to play through the two front factory speakers when OnStar® is active. This interface retains all warning chimes, the audible turn signal indicators, rear seat radio control buttons (when optional SWI interface is used) and the Vehicle Rear Parking Assist System (if equipped).

- OnStar® active LED and Ignition on LED.
- Provides +12v switched accessory output. No more searching for switched +12v in fuse box or kick panel.
- Steering wheel radio controls can be retained to control the new radio by using the SWI - X, JACK, ECL2 or PS.
- New radio will operate with the vehicle RAP (Retained Accessory Power) circuit. The radio stays on after the key is turned off and stays on for approximately 10 minutes or until the drivers door is opened.

Notes

1. The OS-3 does not retain the factory XM receiver. You will lose the XM option when the factory radio is replaced with an aftermarket radio.
2. If you are not retaining the OnStar® system, use the C2R-GM29 instead of this OS-3 interface.
3. Built in Smart Mute Circuitry will play OnStar® audio through the front speakers while muting the radio or turning the radio off if a mute input circuit is not present

Supported Vehicles

The Following General Motors Vehicles using the GMLAN Data Bus WITHOUT a Bose® Amplifier.

- Pontiac:** Torrent (2007)
Saturn: Outlook (2007)
GMC: Acadia (2007) Yukon Denali (2007) Yukon (2007) Sierra - not classic (2007) Sierra Denali - not classic (2007)
Cadillac: Escalade - including ESV and EXT (2007) SRX (2007) DTS (2007)
Buick: Lucerne (2006-2007)
Chevrolet: Suburban (2007) Tahoe (2007) Avalanche (2007) Monte Carlo (2006-2007) Silverado - not classic (2007) Impala (2006-2007) Equinox (2007)

Installation

Step 1- Pre wire the OS-3RAD wire harness to the aftermarket stereo wire harness.

Step 2- After connecting the OS-3RAD and OS-GM14 wire harness to the OS-3 main interface, connect the OS-GM14 connector to the factory harness.

Note: Connect the Purple/White wire (pin 18) from the OS-3RAD to the radios mute input. If a mute input is not available, connect the Purple/White wire (pin 18) to the Red/White wire (pin 16) of the OS-3RAD connector. The Lt. Green wire is a SWC output wire. Do not connect this wire to anything other than the green interface wire of a SWI - X, JACK, ECL, or PS. Program the SWC interface for version #2 and DO NOT CUT the Brown SWI interface loop. When pushing the steering wheel buttons during programming, a simple press and release of the button will do just fine, no need to hold. The rear controls (if equipped) will perform the same functions as the steering wheel buttons without any additional programming necessary. If steering wheel controls are not retained or present, isolate this wire and do not use!

Wire locations and Description

OS-3RAD

WIRE COLOR	CIRCUIT	PIN NUMBER	CIRCUIT	WIRE COLOR	
White/Black	Left Front(-)	9	18	Mute Output	Purple/White
Grey/Black	Right Front (-)	8	17	Left Front (+)	White
Green/Black	Left Rear (-)	7	16	Mute Sense	Red/White
Purple/Black	Right Rear(-)	6	15	Right Front (+)	Grey
Black	Ground	5	14	Chime Module	To CM - X
Lt. Green	SWC Output	4	13	Left Rear (+)	Green
Orange	Illumination	3	12	Chime Module	To CM - X
Blue/White	Amp Turn On	2	11	Right Rear (+)	Purple
Red	+12v Accessory Output	1	10	+12v Constant	Yellow

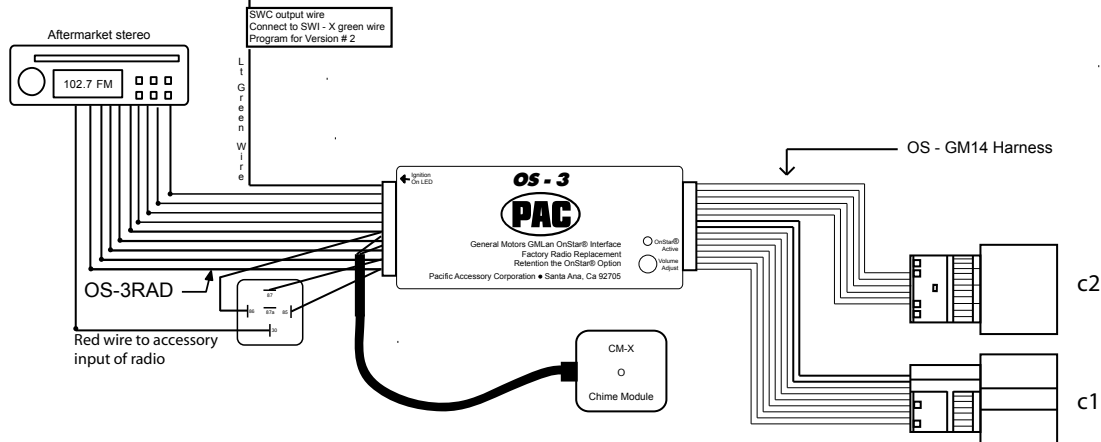
OS-GM14

WIRE COLOR	CIRCUIT	PIN NUMBER	CIRCUIT	WIRE COLOR	
Orange	Illumination	8	16	Amp Control	Black
Purple/White	GMLan	7	15	+12v Constant	Yellow
Black	Ground	6	14	Amplifier Turn On	Blue
Purple/Black	Right Rear (-)	5	13	Right Rear (+)	Purple
Green/Black	Left Rear (-)	4	12	Left Rear (+)	Green
White/Brown	OnStar Mono(-)	3	11	OnStar Mono(+)	Purple/White
Grey/Black	Right Front (-)	2	10	Right Front (+)	Grey
White/Black	Left Front (-)	1	9	Left Front (+)	White

Connecting to the Vehicle's Factory Speakers

Step 3- The CM-X should be plugged into the white 2-pin connector and permanently mounted. This module will retain all warning chimes and audible turn signal indications. There is no volume adjustment for this feature so keep that in mind when choosing a mounting location.

Step 4- The OnStar® volume is controlled from the adjustment screw on the interface. Make sure this is set to the desired level before mounting the interface and reassembling the dash.

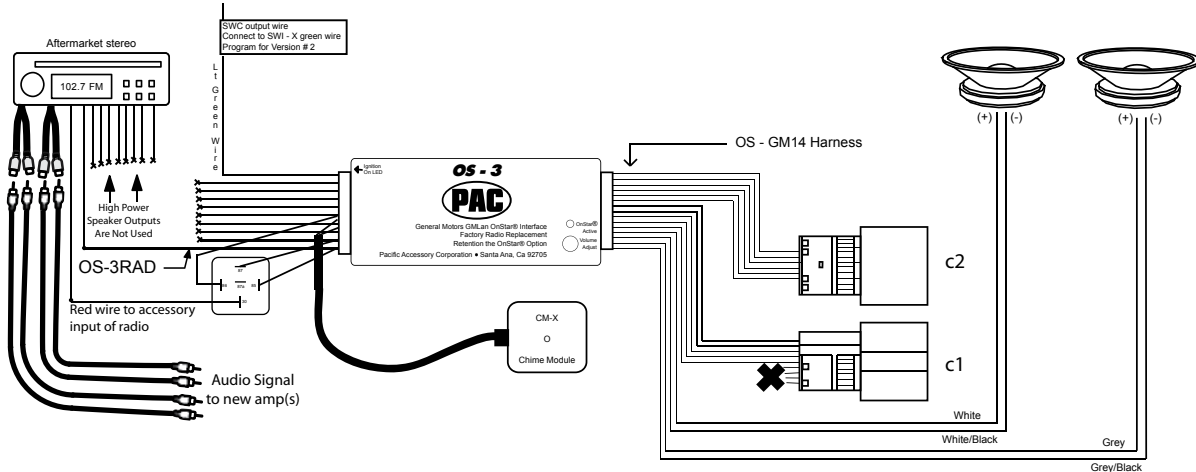


Connecting to External Speakers

Step 3- The CM-X should be plugged into the white 2-pin connector and permanently mounted. This module will retain all warning chimes and audible turn signal indications. There is no volume adjustment for this feature so keep that in mind when choosing a mounting location.

Step 4- The OnStar® volume is controlled from the adjustment screw on the interface. Make sure this is set to the desired level before mounting the interface and reassembling the dash. The OS-3RAD speaker inputs will not be used.

Note - This configuration is used when aftermarket amplifier(s) are installed to power new or existing speakers. You can also use this configuration when the Bose® amplifier is "Bypassed" in the vehicle.



Testing and Verifying Operation

1. Turn ignition on. The red ignition On LED inside the interface will turn on and the +12v accessory wire will turn on.
2. Turn on the radio and check balancing and fading.
3. Pressing the OnStar® button will turn off the radio (or mute it depending on the connections made) and allow the OnStar® audio to be heard in the two front speakers. The OnStar® active red LED will also turn on. When OnStar® disconnects, the radio will un-mute or turn back on and the OnStar® LED will turn off.
4. Turn off vehicle and remove key. RAP will be active and keep the radio on for 10 minutes or until the drivers door is opened.
5. The red LED and the radio will turn off when RAP turns off or the drivers door is opened.
6. Pressing the Mute/OnStar® button on the steering wheel for 1.5 seconds will activate Onstar®.

DISCLAIMER: Under no circumstances shall the manufacturer or the distributors of the OS-3 be held liable for consequential damages sustained in connection with the OS-3. The manufacture and it's distributors will not, nor will they authorize any representative or any other individual to assume obligation or liability in relation to the OS-3 other than its replacement.

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Bose® is a registered trademark of Bose®