



# OS-2BOSE rev. 1.4.16

## General Motors Class II OnStar® and Bose® Interface Installation Instructions.



The OS-2BOSE is a plug and play interface that allows replacement of a General Motors Class II factory stereo. It will maintain operation of the OnStar® system, Bose® amplifier and speakers. The OS-2BOSE has on board switching to allow audio from the OnStar® system to play through the two front factory speakers when OnStar® is active. Retains warning chimes when used with PAC's optional CM1 chime module on selected vehicles listed below. Also retains Vehicle Parking Assist chimes.

- Safe & Sound Class II circuitry will not disable vehicle data bus even if interface loses power.
- OnStar® active LED and Ignition on LED
- Provides +12v switched accessory output. No more searching for switched +12v in fuse box or kick panel.
- Smart Sense Mute output to either mute the aftermarket radio or to turn it off when OnStar® is active.
- OnStar® Volume control via factory steering wheel audio controls on Premium Bose® vehicles. Radio controls can be retained to control new radio by using the SWI-X.
- New radio will operate with the vehicle RAP (Retained Accessory Power) system. The radio stays on after the key is turned off and stays on for approximately 10 minutes or until a door is opened.

### Note:

1. The OS-2BOSE does not retain the factory XM receiver, rear seat controls/headphones or rear seat DVD. You will lose these options when the factory radio is replaced with an aftermarket radio.
2. You may use this interface even if the vehicle does not have OnStar® but need to interface the Bose® amplifier.
3. If you are not retaining the Bose® amplifier, use the OS-2 interface instead of this OS-2BOSE interface.

### Supported Vehicles

**Premium Bose®** - These radios have 5 or more EQ settings: **2003-2006** Denali, Escalade, Yukon Denali and Sierra Denali. **2001-2004** Trail Blazer, Bravada and Envoy SLT. **2003** H2.

**Standard Bose®** - These radios have only 3 EQ settings: **2003-2006** Avalanche, Sierra, Silverado, Suburban, Tahoe and Yukon SLT, **2004-2007** H2. These vehicles with Standard Bose® require an optional CM1 chime module if warning chimes want to be retained.

### Installation

**Please adjust the fading, balance and tone controls to the center position prior to removing the factory radio.**

Note: New vehicles are constantly being researched. If your vehicle is not listed above, check our website for any new updates or instructions.

### Premium Bose®: Connecting the OS-2BOSE to the vehicle's Bose® amplifier.

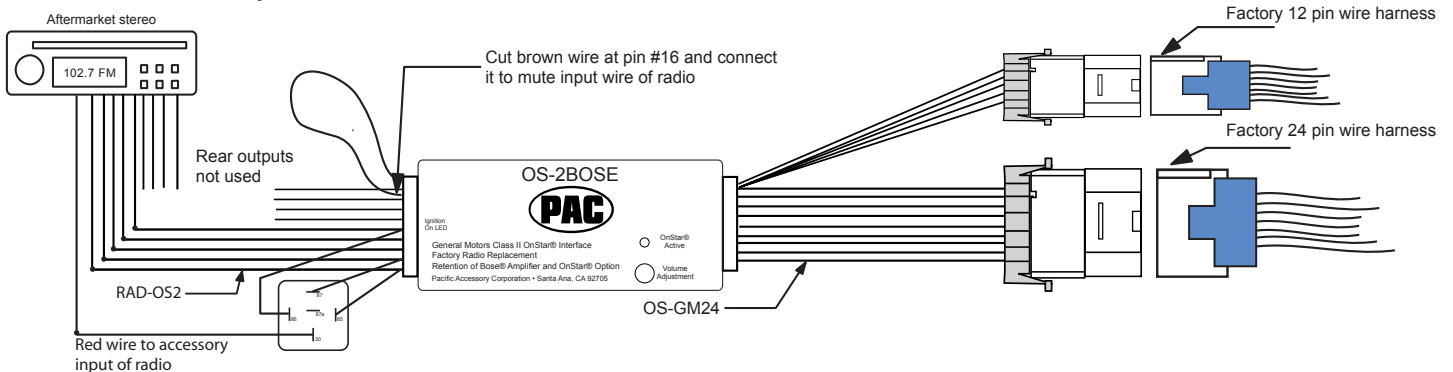
Note: Due to the design of the Premium Bose® system, there is currently no way of fading from front to rear with an aftermarket radio.

#### Step 1.

Pre wire the RAD-OS2 wire harness to the aftermarket stereo wire harness. If the aftermarket stereo has a mute wire, cut the brown wire as close as possible to pin #16 of the RAD-OS2 and connect this mute output wire to the stereo's mute wire. The rear outputs are not used for this application. The amp remote wire (blu/wht) **must** be connected to the stereo's remote wire.

#### Step 2.

After connecting the RAD-OS2 and OS-GM24 wire harness to the OS-2BOSE main interface, connect the OS-GM24 connector to the factory harness.



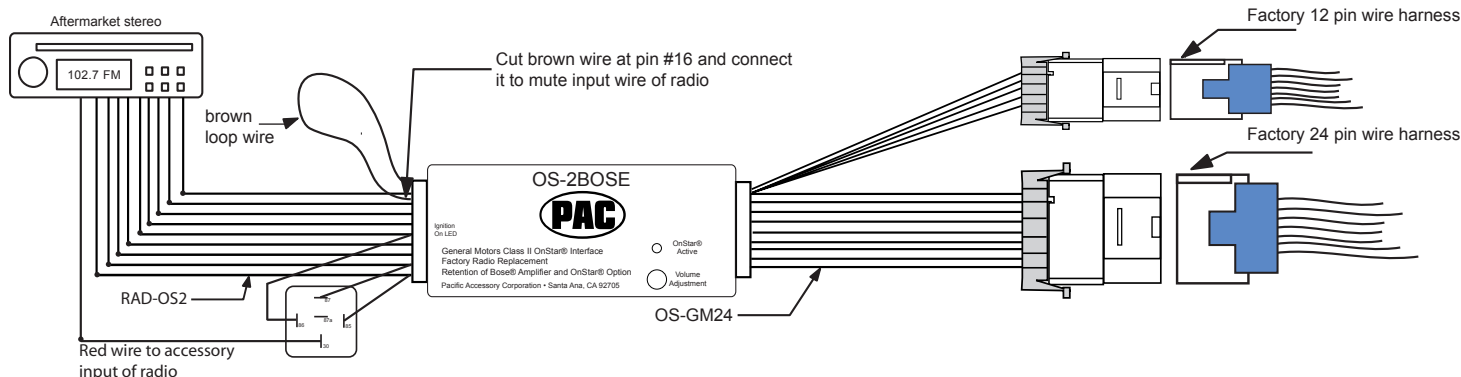
## Standard Bose®: Connecting the OS-2BOSE to the vehicle's Bose® amplifier.

### Step 1.

Pre wire the RAD-OS2 wire harness to the aftermarket stereo wire harness. If the aftermarket stereo has a mute wire, cut the brown wire as close as possible to pin #16 of the RAD-OS2 and connect this mute output wire to the stereo's mute wire. The amp remote wire (blu/wht) **must** be connected to the stereo's remote wire.

### Step 2.

After connecting the RAD-OS2 and OS-GM24 wire harness to the OS-2BOSE main interface, connect the OS-GM24 connector to the factory harness.



## Testing and Verifying Operation

1. Turn ignition on. The green ignition On LED on the side of the interface will turn on and the +12v accessory wire will turn on.
2. Turn on the radio and check balancing and fading. Note: **Premium Bose®** vehicles will not fade as the rear outputs of aftermarket radio can not be used.
3. Pressing the OnStar® button will mute or turn off the new radio, and allow the 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. Note: **Premium Bose®** vehicles have 5 volume adjustment levels for OnStar® audio which is controlled through the volume controls on the steering wheel.
4. Turn off vehicle and remove key. RAP will be active and keep the radio on for 10 minutes or until a door is opened.
5. The green LED and radio will turn off when RAP turns off or door is opened.

## NOTES:

1. The OS-2BOSE does not retain the factory XM receiver or rear seat DVD. You will lose the XM/DVD option when the factory radio is replaced with an aftermarket radio.
2. You may use this interface even if the vehicle does not have OnStar® but need to interface the BOSE amplifier.
3. If you are not retaining the BOSE amplifier, use the OS-2 interface instead of this OS-2BOSE interface.

## Oil Life System Reset Procedures Using Accelerator Pedal.

1. Turn the ignition to ON, with the engine off.
2. Fully press and release the accelerator pedal three times within five seconds.
3. If the CHANGE ENGINE OIL light message flashes, the system is reset. However, if it stays on, it did not reset. You'll need to refer to the vehicle's owners manual or your local GM dealership.

DISCLAIMER: Under no circumstances shall the manufacturer or the distributors of the OS-2BOSE parts be held liable for consequential damages sustained in connection with the OS-2BOSE. 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-2BOSE other than its replacement.

## Looking from wire side of plugs

16 pin OS-GM24 output harness

WIRE COLOR	CIRCUIT	PIN NUMBER	CIRCUIT	WIRE COLOR
ORANGE	ILLUMINATION	8	16	N/A
PURPLE/WHT	CLASS II DATA	7	15	12 CONSTANT
BLACK	GROUND	6	14	Amplifier remote
PURPLE/BLK	RIGHT REAR (-)	5	13	RIGHT REAR (+)
GREEN/BLK	LEFT REAR (-)	4	12	LEFT REAR (+)
BROWN/WHT	OnStar Mono(-)	3	11	OnStar Mono(+)
GRAY/BLK	RIGHT FRONT (-)	2	10	RIGHT FRONT (+)
WHITE/BLACK	LEFT FRONT (-)	1	9	LEFT FRONT (+)

18 pin RAD-OS2 Input harness

WIRE COLOR	CIRCUIT	PIN NUMBER	CIRCUIT	WIRE COLOR
WHITE/BLACK	LEFT FRONT(-)	9	18	MUTE OUTPUT (-)
GRAY/BLACK	RIGHT FRONT (-)	8	17	LEFT FRONT (+)
GREEN/BLACK	LEFT REAR (-)	7	16	MUTE Sense input
PURPLE/BLACK	RIGHT REAR (-)	6	15	RIGHT FRONT (+)
BLACK & Relay #85	GROUND	5	14	
BLUE	ANTENNA	4	13	LEFT REAR (+)
ORANGE	ILLUMINATION	3	12	CHIME MODULE
BLUE/WHITE	AMP TRIGGER	2	11	RIGHT REAR (+)
RED Relay #86	Relay control #86	1	10	12V CONSTANT