

OS-1

General Motors OnStar® Interface Installation Instructions.

The OS-1 is a plug and play interface that allows replacement of a General Motors factory stereo (without RDS option) and maintain operation of the OnStar® system. The OS-1 has on board switching, and amplification to allow audio from the OnStar® system to play through the two front factory speakers when OnStar® is active, and mute the new replacement radio. The OS-1 can also be used when a stereo and amplifier combination system is installed. Separate speakers can be added if desired.

There are separate gain adjustments for left and right OnStar® audio and an LED indicator that turns on when the OS-1 receives an "ON" command from the OnStar® system.

If the vehicle has the factory Bose sound system and it is desired to retain the Bose amplifiers and speakers then PAC's plug and play OEM-1 premium sound system interface is also needed. Either use the complete Bose/OnStar® Kit (OS-1BOSE) that includes the OS-1 and OEM-1 interfaces and harnesses, or add a OEM-1 interface and AMP-GM21A harness to the OS-1.

Supported Vehicles

Cadillac 1999 - 2002 Escalade. **Chevrolet** 2002 Avalanche, 1999 - 2001 Blazer, 1998 -1999 Lumina, 2002 Silverado, 1998 - 2002 Suburban and Tahoe, 1998 -2000 Venture. **GMC** 1997 - 2002 Sierra, 1998 - 2002 Suburban, Yukon. **Pontiac** 1999 Grand Prix, 1998 -2000 Montana. **Oldsmobile** 1998 - 2000 Silhouette.

The OS-1 will interface with all GM radios that use the 21 pin / 9 pin connectors and do not have the "RDS" option. If there is a "RDS logo on the radio face, this interface will not work.

Installation

The OS-1 can be connected to either the factory located front speakers or to an external set of speakers. Select one of the two options below that suites your needs.

OPTION 1: Connecting the aftermarket stereo and OS-1 to the vehicle's factory speakers.

Do not connect a high powered amplifier to the OS-1 speaker inputs. Doing so will damage the OS-1 internal relays. Connect the OS-1 inputs to only an aftermarket stereo that has no more than 60/watts x 4 peak power output.

Step 1.

Pre wire the OS-RAD wire harness to the aftermarket stereo wire harness. Connect the black wire that is hard wired to the OS-1 to the black wire of the OS-RAD harness along with the stereo's ground wire. If the aftermarket stereo has a mute wire, connect the brown wire from the OS-RAD wire harness to the stereo's mute wire. If the stereo does not have a mute wire, you will need to use an optional relay (Fig. 3) to automatically turn off the stereo when OnStar® is on.

Step 2.

Non-Bose: After connecting the OS-RAD and OS-GM21 wire harness to the OS-1 main interface (Fig. 1), connect the OS-GM21 and OS-GM9 connectors to the factory harness. You will not need the OS-1618 wire harness for this application.

-OR-

Bose system: Use the supplied OS-1618 wire harness and connect to the 16 pin connector side to the OS-1. Connect the AMP-GM21A wire harness and OEM-1 interface to the OS-1 according to (Fig. 2). Connect the AMP-GM21A and OS-GM9 connectors to the factory harness. The OS-GM21 wire harness will not be used for this application.

OPTION 2: Connecting OnStar® and OS-1 to external speakers.

Use this option if you do not want to use the factory speaker locations with OnStar®.

Step 1.

You will need to cut the two front speaker wires (white, wht/blk, gray and gray/blk) in half on the OS-GM21 wire harness of the OS-1 (Fig. 1). Connect the aftermarket stereo's front two speaker wires directly to the speaker wires on the OS-GM21 (21 pin connector side). Connect the two pair of wires that are left over to external speakers while observing polarity. Connect the rest of the aftermarket wire harness to the inputs of the OS-GM21 harness. The front speaker inputs will not be used on the OS-GM21 connector. Connect the black wire that is hard wired to the OS-1 to the black wire of the OS-GM21 harness along with the stereo's ground wire. If the aftermarket stereo has a mute wire, connect the brown wire from the OS-RAD wire harness to the stereo's mute wire. If the stereo does not have a mute wire, you will need to use an optional relay (Fig. 3) to automatically turn off the stereo when OnStar® is on.

Step 2.

After connecting the OS-RAD and OS-GM21 wire harness to the OS-1 main interface (Fig. 1), connect the OS-GM21 and OS-GM9 connectors to the factory harness.

If you are not using an OEM-1 Bose interface, go to step #2.

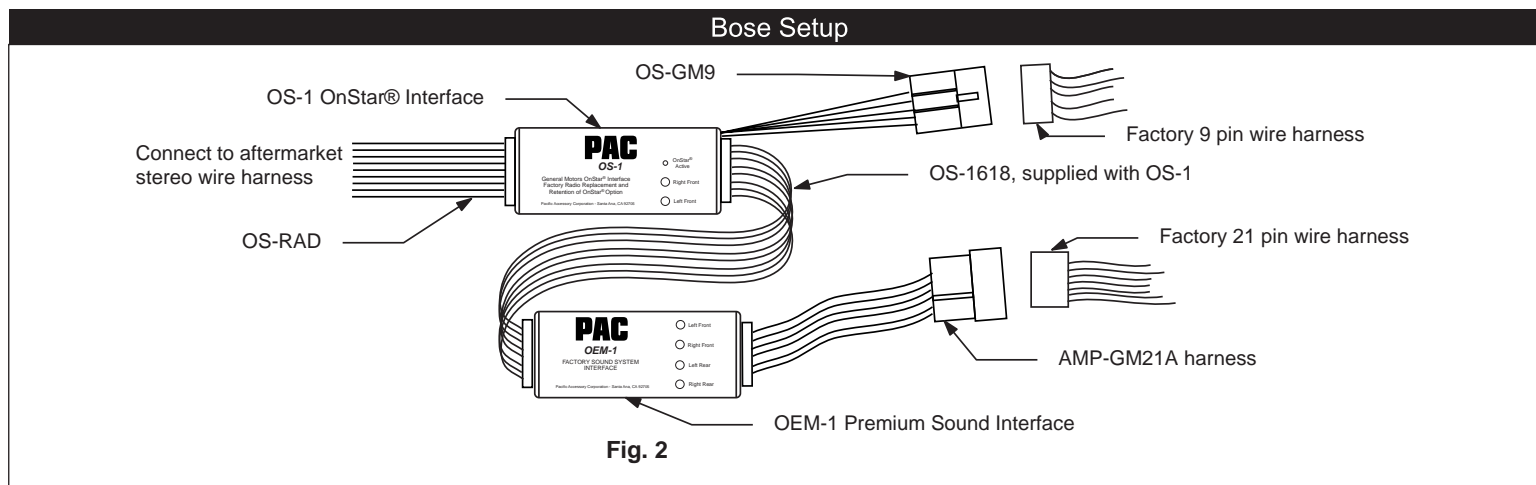
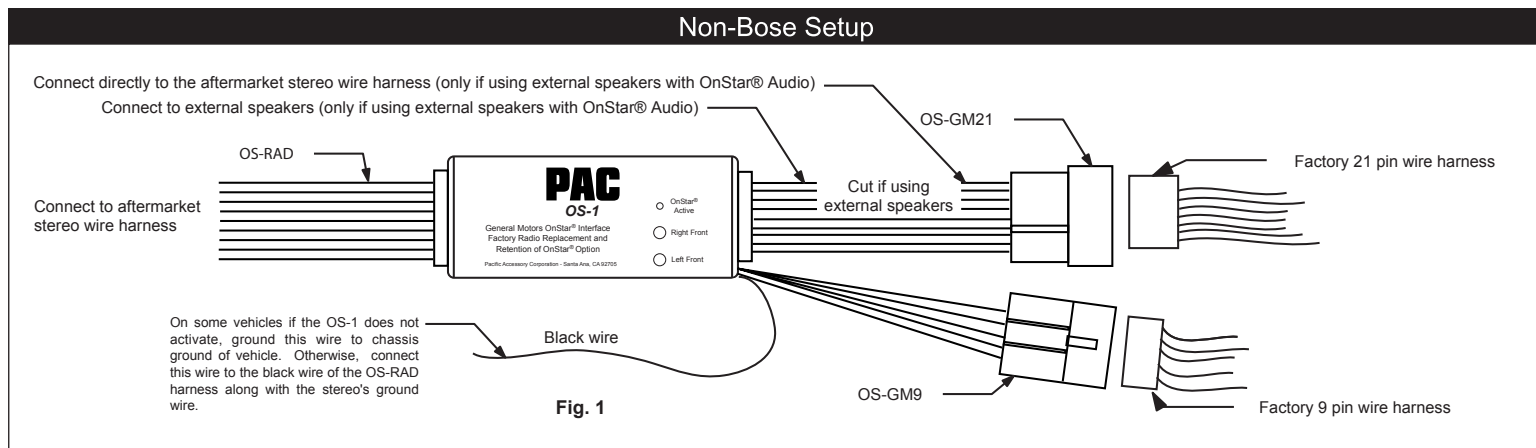
Step #1: Adjusting the OEM-1 level controls.

After all connections are made and plugged in (Fig. 2), adjust the OEM-1 level controls with a small flat head screwdriver to a suitable undistorted listening level.

Step #2: Adjusting OS-1 Volume and Testing Operation with OnStar®.

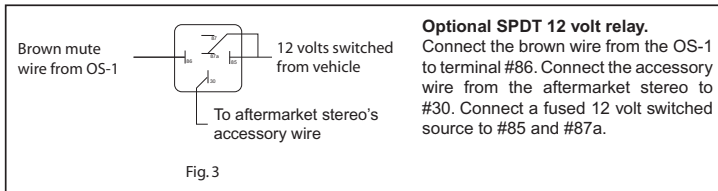
After all connections are made, adjust the audio outputs of the OS-1 with a small flat head screwdriver. Counter clockwise is at minimum and clockwise is maximum output. Push the Blue OnStar® button on the vehicle to initiate a call to the service center. Within a few seconds the OS-1 led will turn on. At this point the stereo should either mute or turn off and a greeting message should be heard. Adjust the OS-1 volume to a suitable loudness level. If the volume sounds distorted, lower the outputs of the OS-1. Pressing the black OnStar® button on the vehicle will end the call and the OS-1 led will turn off. After 3 seconds the stereo should resume playing or will turn back on.

WARNING! Do not unplug the separate 9 pin female and male connectors that are located farther back in the dash. Doing so will disconnect OnStar® from the OS-GM9 connector.



18 pin universal input harness color code

WIRE COLOR	CIRCUIT	9	18	CIRCUIT	WIRE COLOR
WHITE/ BLK	LEFT FRONT (-)	9	18	MUTE OUTPUT (-)	BROWN
GRAY/ BLK	RIGHT FRONT (-)	8	17	LEFT FRONT HIGH LEVEL (+)	WHITE
GREEN/ BLK	LEFT REAR (-)	7	16	RIGHT FRONT HIGH LEVEL (+)	GRAY
PURPLE/ BLK	RIGHT REAR (-)	6	15	LEFT REAR HIGH LEVEL (+)	GREEN/ RED
BLACK	GROUND	5	14	RIGHT REAR HIGH LEVEL (+)	PURPLE
BLUE	POWER ANTENNA	4	13	BATTERY	YELLOW
ORANGE	ILLUMINATION/ DIMMER	3	12		
BLUE/WHITE	AMP TRIGGER	2	11		
RED	IGNITION/ SWITCHED	1	10		



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