



Universal sound system interface and controller

The OEM-2 may be used in any one of <u>four</u> possible configurations and system types.

- 1) Replacing a premium factory radio with an aftermarket stereo and use the factory amplifier and speakers.
- 2) Four channel line out converter for adding amplifiers to a standard factory speaker system.
- 3) Adding aftermarket amplifiers to a factory premium amplified system (Bose, JBL, etc.).
- 4) Installing a radio with floating ground speaker outputs to a common grounded speaker system like the early Fords.

The OEM-2 also includes a remote turn-on for amplifiers or a power antenna, providing 2 amps at 12 volts when 0.8 volts or greater is applied to the input side. This is useful for low voltage triggers like those used in Fords or for automatic triggering when audio is present. The output "turn on" is delayed 1 second to prevent turn on pops.

Ir	nput wiring colors	Output wiring colors		
White ¹	LF (+) speaker (high power)		White ⁶	LF (+) low level output
White/red ²	LF (+) speaker (low power)		White/red	LF (+) common gnd. speaker output
White/black ³	LF (–) common		White/black ⁷	LF (–) common
Gray ¹	RF (+) speaker (high power)		Gray ⁶	RF (+) low level output
Gray/red ²	RF (+) speaker (low power)		Gray/red	RF (+) common gnd. speaker output
Gray/black 3	RF (–) common		Gray/black ⁷	RF (-) common
Green 1	LR (+) speaker (high power)		Green ⁶	LR (+) low level output
Green/red ²	LR (+) speaker (low power)		Green/red	LR (+) common gnd. speaker output
Green/black 3	LR (–) common		Green/black 7	LR (–) common
Violet 1	RR (+) speaker (high power)		Violet ⁶	RR (+) low level output
Violet/red ²	RR (+) speaker (low power)		Violet/red	RR (+) common gnd. speaker output
Violet/black 3	RR (–) common		Violet/black ⁷	RR (–) common
Yellow ⁴	Constant battery		Yellow	Constant battery
Red ⁴	Switched power		Red	Switched power
Black ⁴	Gnd. neg. power		Black	Gnd. neg. power
Blue 4	Power antenna turn on		Blue	Power antenna turn on
Blue/white 5	Amplifier remote turn on 0.8 v min.		Blue/white	Amplifier remote turn on 2 amps max.
Orange ⁴	Illumination dimming		Orange	Illumination dimming

¹ Connect these wires to an aftermarket radio (+) high power speaker output (typically 20 watts x 4 and higher).

0

0

Note: Some Chrysler/Dodge vehicles with a Infinity premium sound system do not need any interface. If the speakers fade and balance correctly with this interface installed, but you have very little volume, then you do not need this interface.

1) Replace the factory premium radio with an after market radio/deck and retain the use of the factory amplifiers and speakers Referring to the wire color chart above, connect the speaker outputs of the new radio to the OEM-2, using the positive, solid color, and the negative black-striped wires for all four channels. On the output side of the OEM-2 connect the solid color wires (+) and the black-striped wires (-) to the factory harness leading to the factory amplifiers. If there are common audio return wires (-) used in the vehicle for either the front and rear channels then connect the negative outputs of the OEM-2 to them. If there is only one audio return wire for all four channels connect all the black-striped wires to it. Connecting the constant power (yellow), switched power (red), ground (black), antenna trigger (blue), illumination (orange), and amplifier turn on (blue/white) through the OEM-2 simplifies wiring to the vehicle. The output level controls can be adjusted with a small screwdriver.

Factory Amplifier

gray & gray/bll

gray & gray/blk

² Connect these wires to an aftermarket radio (+) low power speaker output. (All stereos up to 20 watts x 4 or when wiring for #4)

³ If the radio is high power (floating ground), connect these wires separately to each of the radio's speaker (-) wire (do not connect (-) speaker wires together). If the radio has a common ground speaker outputs, connect these wires together along with the radio's speaker ground.

⁴These wires go directly through to the outputs for convenience of wiring. The red and black wires supply power to the internal low voltage trigger.

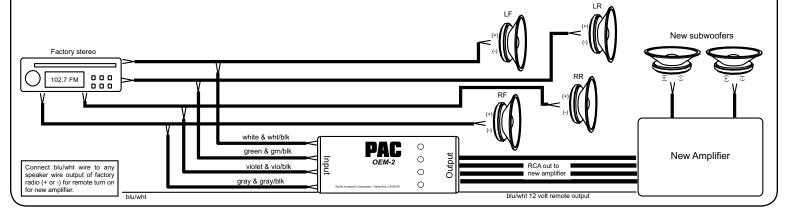
⁵ This wire needs only a minimum of 0.8 volts to supply 12 volts on the blue/white wire on the output side of the OEM-2.

⁶ For convenience, the positive leads of the RCA are connected internally to these wires.

⁷ For convenience, the grounds of the RCA are connected internally to these wires. Not used with common grounded speakers.

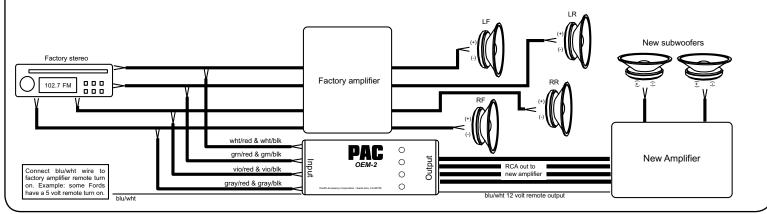
2) Adding an aftermarket amplifier to a standard factory radio that does not have factory amplifiers

The factory radio speaker outputs are connected to the OEM-2 inputs and the new amplifier is connected to the output side of the OEM-2, using the four RCA jacks and extension cables. Referring to the wire color chart, connect the factory radio speaker (+) outputs to the solid color wires and the (-) outputs to the black-striped wires. Example, LF speaker outputs of the factory radio connect to the white wire (+) and white/black (-). Continue for the remaining channels. The OEM-2 provides an amplifier turn on signal. To use, connect the blue/white wire on the OEM-2 input side to one of the positive speaker wires or to any source that provides 5 volts DC or greater. The blue/white wire on the output side will provide 12 volts to turn on the new amplifier. Connect the red (+) and black (-) wires on the input side to switched vehicle power and ground. Adjust the output level controls as needed using a small screwdriver.



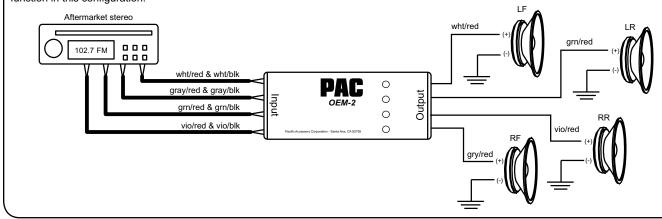
3) Adding after market amplifiers to a factory premium amplified system (Bose, JBL, etc.)

Referring to the wire color chart above, connect the audio output leads of the factory stereo to the input of the OEM-2, using the red striped wires as the positive input and black-striped as negative. Most premium systems use a low -level signal from the stereo to the factory amplifiers, therefore use the low level input of the OEM-2. Some factory-amplified systems use common audio returns and grounded shields like for instance, GM/Delco Bose vehicles. Do not cut the shield wire or attempt to use it as an audio signal wire. Determine if your system has two common audio return wires, one for the front channels and a second for the rear channels. If so, connect the negative input wires (black-stripe) for the front channels of the OEM-2 to the common audio return wire in the vehicle for the front channels. Do the same for the rear channels. If the vehicle has only one audio return wire for all channels connect all of the black stripped wires to it. The output level controls can be adjusted with a small screwdriver. Connect the red (+) and black (-) wires on the input side to switched vehicle power and ground.



4) Installing a radio with floating ground speaker outputs to a common grounded speaker system like the early Fords.

Referring to the wire color chart, connect the new stereo positive speaker outputs to the <u>red striped</u> wire on the input side of the OEM-2. Connect the negative speaker outputs to the black-striped wires of the OEM-2. On the output side of the OEM-2 connect the <u>red-striped</u> wires to the vehicle positive speaker wiring. The black striped wires on the output are not used. The negative side of each speaker is either common to each other on one wire or two in the factory plug or already grounded to the chassis. However it may be, make sure that they are grounded to the vehicle chassis. The output level control on the OEM-2 <u>will not</u> function in this configuration.



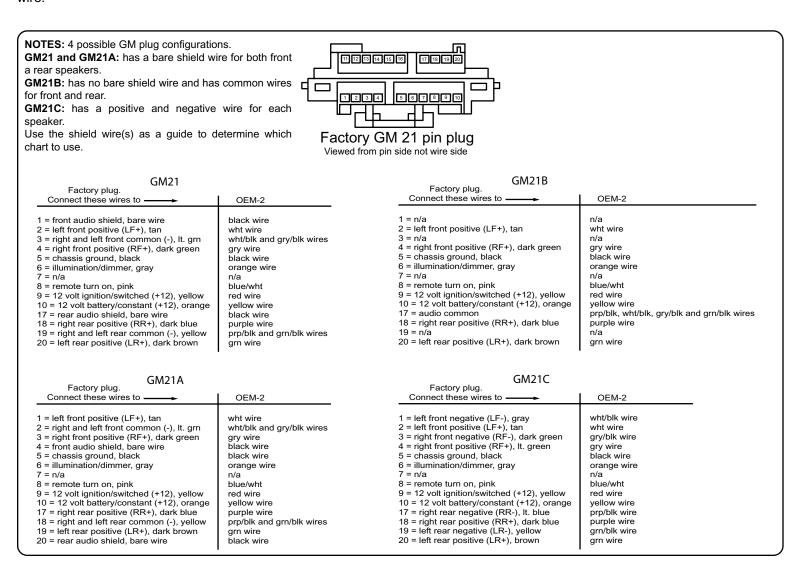


Wiring the OEM-2 and aftermarket stereo to a GM factory Bose Premium Sound System

Important!

If you are using the supplied wire harness from Crutchfield, or other aftermarket wire harness either from Metra, Scosche or American International, you can not connect the audio signal wires of the supplied wire harness to the OEM-2 color for color (you may however, connect the red, black, blue, orange, and yellow wire color for color). The wire harness supplied by Crutchfield or other above mentioned wire harnesses are not designed for Bose Premium Sound Systems. You will need to trace the factory wire colors and match them over to the aftermarket harness. Connect the OEM-2 outputs according to the chart.

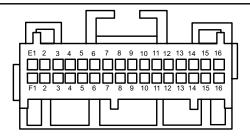
The factory wire colors given are typical of most GM vehicles with a Bose Premium Sound System. If the colors do not match up, you will need to obtain a wiring diagram of your vehicle from a dealer. In some vehicles the audio common wires could have a striped wire.



Document and Material Disclaimer: All information, including photos and illustrations, in these pages is believed to be correct and reliable. The information contained in these pages is given as general information for the installation of audio accessories into mobile and/or vehicle applications. PACIFIC ACCESSORY CORPORATION shall not be held liable for any damages and/or injuries resulting from the use of information contained in these pages. All information contained in these pages should be checked and verified with appropriate test equipment to assure the safety and proper operation of equipment installed and the vehicle itself.

Copyright © 2002 Pacific Accessory Corporation.

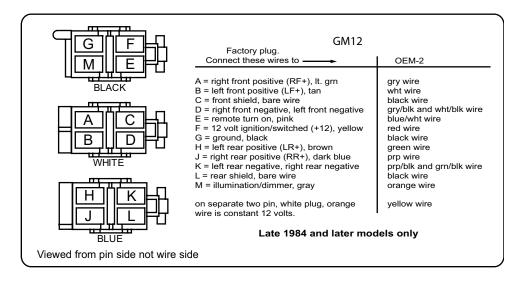
NOTES: 2 possible plug configurations. GM32: has one audio shield wire. GM32A: has two audio shield wires. Use the shield wire(s) as a reference to select which chart to use.



Factory GM 32 pin plug

Viewed from pin side not wire side

GM32 Factory plug.	1	GM32A Factory plug.		
Connect these wires to ———	OEM-2	Connect these wires to —	OEM-2	
Row E	Row E			
1 = n/a	n/a	1 = n/a	n/a	
2 = n/a	n/a	2 = n/a	n/a	
3 = remote turn on	blue/wht wire	3 = remote turn on	blue/wht wire	
4 = n/a	n/a	4 = n/a	n/a	
5 = n/a	n/a	5 = n/a	n/a	
6 = n/a	n/a	6 = n/a	n/a	
7 = n/a	n/a	7 = n/a	n/a	
8 = n/a	n/a	8 = n/a	n/a	
9 = n/a	n/a	9 = n/a	n/a	
10 = n/a	n/a	10 = n/a	n/a	
12 = left rear positive (LR+)	grn wire	12 = left rear positive (LR+)	grn wire	
13 = n/a	n/a	13 = rear audio shield, bare wire	black wire	
14 = n/a	n/a	14 = rear audio common return (-)	prp/blk and grn/blk wire	
15 = right rear positive (RR+)	prp wire	15 = right rear positive (RR+)	prp wire	
16 = chassis ground	black wire	16 = chassis ground	black wire	
Row F		Row F		
1 = constant 12 volts	yellow wire	1 = constant 12 volts	vellow wire	
2 = accessory 12 volts	red wire	2 = accessory 12 volts	red wire	
3 = antenna remote turn on	blue wire	3 = antenna remote turn on	blue wire	
4 = illumination/dimmer	orange	4 = illumination/dimmer	orange	
5 = n/a	n/a	5 = n/a	n/a	
6 = n/a	n/a	6 = n/a	n/a	
7 = n/a	n/a	7 = n/a	n/a	
8 = n/a	n/a	8 = n/a	n/a	
9 = n/a	n/a	9 = n/a	n/a	
10 = n/a	n/a	10 = n/a	n/a	
12 = left front positive (LF+)	wht wire	12 = left front positive (LF+)	wht wire	
13 = audio shield, bare wire	black wire	13 = front audio shield, bare wire	black wire	
14 = audio common return (-)	prp/blk,grn/blk,gry/blk and wht/blk wires	14 = front audio common return (-)	gry/blk and wht/blk wires	
15 = right front positive (RF+)	gry wire	15 = right front positive (RF+)	gry wire	
16 = n/a	n/a	16 = n/a	n/a	



Free Manuals Download Website

http://myh66.com

http://usermanuals.us

http://www.somanuals.com

http://www.4manuals.cc

http://www.manual-lib.com

http://www.404manual.com

http://www.luxmanual.com

http://aubethermostatmanual.com

Golf course search by state

http://golfingnear.com

Email search by domain

http://emailbydomain.com

Auto manuals search

http://auto.somanuals.com

TV manuals search

http://tv.somanuals.com