

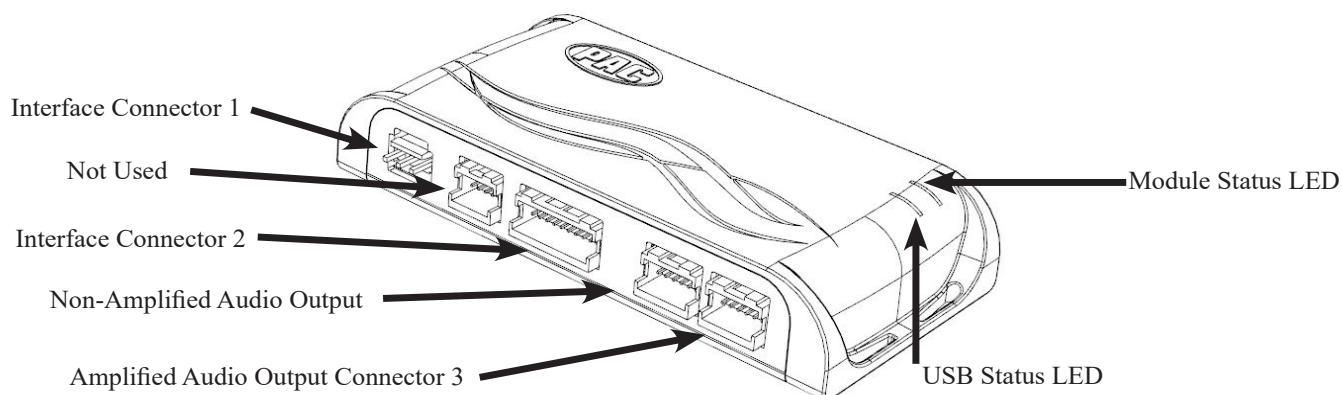
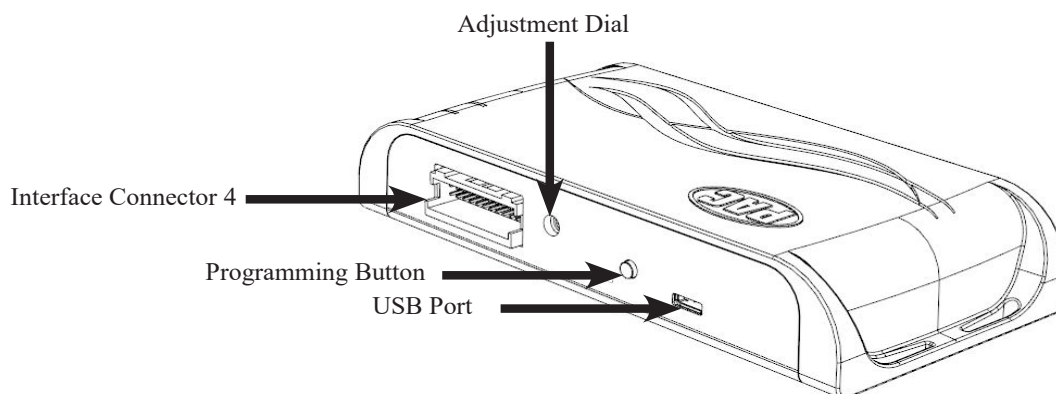
Introduction and Features

The OS-2X interface allows the replacement of a factory radio in select General Motors vehicles with the Class II Data-Bus. Using this interface will retain factory features such as Warning Chimes, Bose Amplifier, Rear Seat Entertainment (RSE), and OnStar when the original radio is removed. The OS-2X provides data bus driven outputs such as retained accessory power (RAP), vehicle speed signal (VSS), illumination, reverse trigger and parking brake.

Important Notes

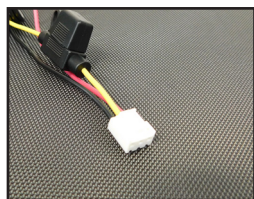
1. Aftermarket radio must have an auxiliary input in order to retain RSE audio.
2. Real time speaker fading on Premium factory Bose systems (Y91 / UQA) is only supported with the “amplified output” connection of the OS-2X.
3. When using real time speaker fading (Premium Bose only), if the fader setting is biased more to the front or rear, as the radio turns on the sound may begin at the default setting and then quickly transition to your custom setting.
4. Aftermarket radio features such as High Pass Filters (crossovers), DSP or “Network Mode” will interfere with proper fader function (Premium Bose only). In order for the OS-2X’s fader function to work, the audio from the aftermarket radio’s output must match so it can compare the front and rear audio levels and determine the proper fader setting for the factory amplifier.

Module Layout

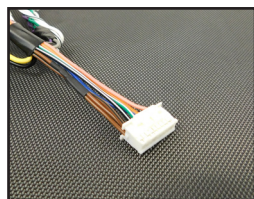


Installation Steps

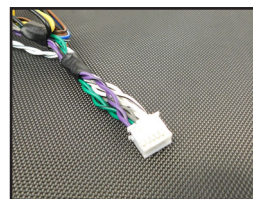
1. Wire your aftermarket radio to the OS-2X's harness according to the wiring connections chart below.
2. The Brown mute loop in Interface **Connector 4** (if not cut) will turn the OS-2X's accessory output off when any OnStar function is active. If the aftermarket radio has a mute input, cut this loop and connect the Brown wire in pin 23 to it. This pin is located in the top row next to the solid blue wire. (The top of the connector has the locking tab on it).
3. Plug Interface **Connectors 1 and 2** into the appropriate ports on the OS-2X interface (using the diagram on Page 1 or the label on the bottom of the interface).
4. The Interface **Connector 3** connection will be dependent upon whether or not the vehicle has a factory amplified system. Plug this connector into the appropriate port on the OS-2X (using the diagram on Page 1 or the label on the bottom of the interface).
5. If the aftermarket radio is equipped with an auxiliary input and you wish to retain the factory RSE audio, plug the RCA connectors from the Vehicle **Connector 2** into the radios auxiliary input.
6. Remove the factory radio and plug in the OS-2X's Vehicle **Connector 1** and Vehicle **Connector 2** into the factory vehicle harness.
7. Plug the 2-Pin connector into the **CMX Chime Module** (If the vehicle chimes when the radio is removed, the CMX is not necessary). **PLEASE NOTE:** In order to get the best possible sound out of the CMX, please mount it in a place free and clear of any obstructions, preferably as close as possible to the bottom of the dash pointing down toward the floor of the vehicle.



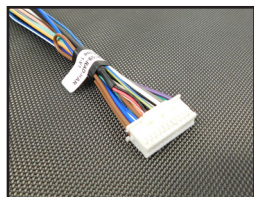
Interface Connector 1
(3-pin)



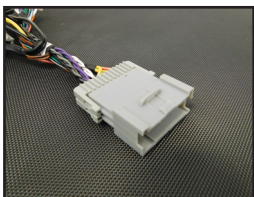
Interface Connector 2
(20-pin)



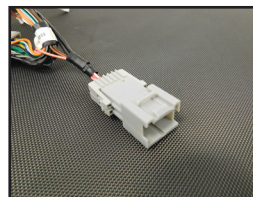
Interface Connector 3
(12-pin)



Interface Connector 4
(24-pin)



Vehicle Connector 1
(24-pin)



Vehicle Connector 2
(12-pin)



CMX Chime Module

Wiring Connections

Yellow	12v+
Red	Accessory Output (10 amp)
Black	Ground
Brown Loop	Mute Output
Blue	Not Used
Blue / White	Remote On Input
Orange	Not Used
Orange / White	Illumination Output
Purple / White	Reverse Output (+)
Light Green	Parking Brake Output (-)
Pink	Vehicle Speed Signal (VSS) Output
11Pin White Connector	SWC Direct Connect
Purple / Black	Rear R - input
Green	Rear L + input
Green / Black	Rear L - input
Gray	Front R + input
Gray / Black	Front R - input
White	Front L + input
White / Black	Front L - input

Programming Button and Adjustment Dial Functions

You can press and hold the programming button on the side of the interface to access different programming modes. Once the LED is lit to the mode you desire (see below for modes), immediately release the programming button to access that mode.

PLEASE NOTE:

- This process must be done with the interface in the vehicle and the key in the ignition position.

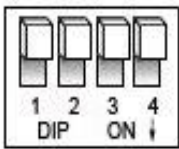
- A. LED 1 flash red: Master reset.** This does a master reset of the interface and restores the following settings to factory defaults:
- SWC Mapping
 - SWC Calibration

SWI-DIRECT Steering Wheel Control Output Connector

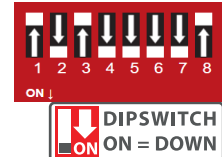
If you are using the SWI-RC-1 or SWI-CP2 please follow the steps below.

Refer to the figure to the right to set the bank of eight Dip-Switches.

Refer to the guide below for setting the bank of four Dip-Switches based on your radios manufacturer.



Set DIP-Switches that correspond with your radio to the ON position.
Set all other DIP-Switches to the OFF position.



Alpine	JVC	Kenwood / Lightning Audio	Stinger	Clarion / Nakamichi	All Other Brands	Pioneer	Sony	Fusion
1	2	1 & 2	3	3	1, 2, & 3	1, 2, & 3	4	1 & 4

If your brand is not listed above, please use "ALL OTHER BRANDS."

SWC Re-calibration Procedure (Corvette Only)

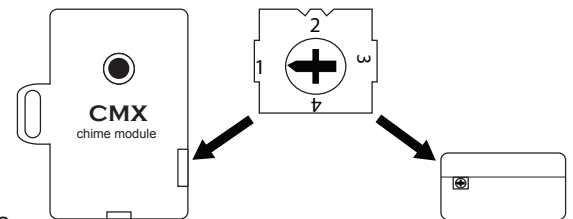
Please Note: This is only necessary if after installation, the SWC are acting erratic or unresponsive in the Corvette.

1. Turn the key to the ignition position.
2. Press and hold the programming button until LED 1 turns **amber** and you hear two chimes. When this happens, release the programming button.
3. Within 7 seconds, press and hold the button that is to be learned on the steering wheel. The LED will turn off when the button is pressed and begin blinking when the value has been learned. Once the LED begins blinking, release the button.
4. Repeat step 3 for each additional function on the steering wheel.
5. If you come to a button in the list that your vehicle does not have, skip it by pressing the programming button on the interface. Any buttons not learned during this process will not function.
6. Once programming is completed, the LED will flash indicating end of programming.
7. Test the interface for proper functionality. Whenever a SWC is pressed LED 1 on the interface should blink green. If any function does not work, repeat the programming steps.

Button Programming Order
Volume Up
Volume Down
Seek Up
Seek Down
Preset
Answer / Voice
Hang Up
Preset Up

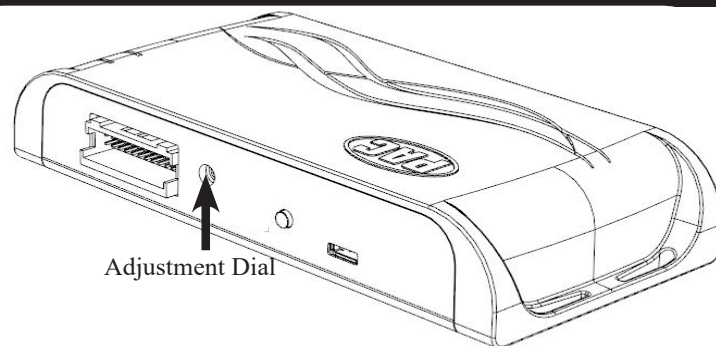
Testing and Verification

1. Turn the ignition on. LED 1 will illuminate red and the +12v accessory wire will turn on.
2. Turn on the radio and check chimes, volume, balance, and fader.
3. **In vehicles equipped with Premium Bose (Y91 / UQA):** If the overall volume is too low, use the adjustment dial on the side of the interface to set it to the desired level. The best way to do this is to turn the volume on the radio to 3/4 volume, then turn the adjustment dial on the OS-2X clockwise until some distortion is heard, then counter-clockwise a little.
4. If you have installed a steering wheel interface verify that all SWC buttons are functioning properly for both the aftermarket radio and OnStar. To adjust OnStar volume, press the OnStar button on the mirror then use the volume buttons on the SWC, or the adjustment dial on the side of the module to adjust the level. When you hear a chime during this process it means you have reached the farthest minimum / maximum level.
5. Pressing the OnStar button on the rearview mirror will turn off the rear speakers and allow the OnStar audio to be heard in the two front speakers. The OnStar active LED will also turn on. When OnStar disconnects, the radio will un-mute or turn back on and the OnStar LED will turn off. Pressing the VR / OnStar button on the steering wheel will also activate OnStar.
6. Turn off vehicle and remove key. RAP will be active and keep the radio on for 10 minutes or until any door is opened.
7. The LED and radio will turn off when RAP turns off or until any door is opened.
8. Use the 4-position selector switch located on the side of the CMX chime module to select the best chime output volume for your specific installation. Setting 1 being loudest and 4 being softest.



OnStar Volume Adjustment for Vehicles without SWC

- If SWC buttons are not present use the adjustment dial on the side of the interface to control the OnStar audio level during an OnStar connection.
- When OnStar is active pressing the switch will change the audio level 10 steps.



Rear Seat Entertainment (RSE); If equipped

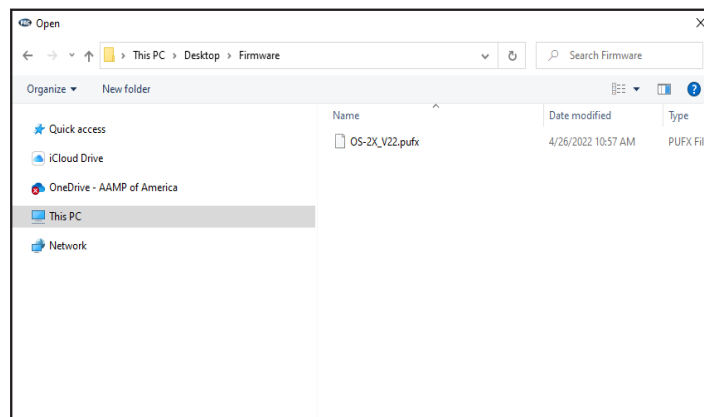
The factory RSE system will function independently from the aftermarket radio. The unit will power up and pass audio through the headphones as long as the vehicle's ignition is on. If you wish to pass audio from the RSE to the aftermarket radio you must connect the RCAs from the 12-pin connector to the aftermarket radios auxiliary input. Select the aftermarket radios auxiliary input to hear RSE audio.

RadioPRO PC App

Firmware Updates

The RadioPRO PC app will allow you to update the interface with new firmware as it becomes available. Please visit <https://pac-audio.com/firmware-updates/> for available updates.

Connect the interface to your PC and select "Firmware", then "Update Firmware". Now select "Select File". Finally, browse to the place where you saved the file and select it. This will begin the updating process. Once finished, disconnect the interface from the PC and test operation.



Technical Support

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