PAC OS5

PAC OS5 Radio Replacement Interface with Onstar Retention

Model: OS5 | Brand: PAC

INTRODUCTION

The PAC OS5 Radio Replacement Interface is designed to integrate an aftermarket radio into select General Motors (GM) vehicles equipped with a 29-bit GMLAN data bus. This interface ensures the retention of critical factory features, including OnStar system functionality, the Bose factory-installed amplifier (if present), safety warning chimes, and audible turn signal indicators, when the original factory radio is replaced.

KEY FEATURES

- Retains OnStar system functionality.
- Retains factory Bluetooth (for 2009+ model vehicles).
- Retains factory BOSE audio systems.
- Provides illumination output and parking brake output.
- Retains rear seat audio controls.
- Generates all warning chimes (chime module included).
- Retains back-up sensors, park assist, and back-up camera signal.
- Compatible with or without factory amplified audio systems.
- Can be used even if the vehicle does not have OnStar.
- Retains the 5.1 Digital audio system in select GM vehicles.

COMPATIBILITY

The PAC OS5 is designed for select GM vehicles utilizing a 29-bit GMLAN data bus. It supports vehicles with or without OnStar, and with or without factory Bose audio systems. Specific compatibility for factory Bluetooth retention applies to 2009 and newer models. Refer to the vehicle application guide provided by PAC for a complete list of compatible vehicles.

PACKAGE CONTENTS

Upon opening the package, verify that all components are present:

- PAC OS5 Interface Module
- Vehicle-specific Wiring Harness
- Chime Module (CMX)
- Instruction Manual (this document)

Image: The PAC OS5 Radio Replacement Interface module. This image displays the main unit of the interface, typically a black box with various ports for wiring harnesses.

INSTALLATION AND SETUP

Installation of the PAC OS5 interface requires basic knowledge of car audio wiring and vehicle disassembly. It is recommended that installation be performed by a qualified professional.

Pre-Installation Steps:

1. **Disconnect Battery:** Before beginning any electrical work, disconnect the vehicle's negative battery terminal to prevent electrical shorts and damage.
2. **Remove Factory Radio:** Carefully remove the factory radio from the dashboard, following your vehicle's specific disassembly instructions.
3. **Identify Wiring:** Familiarize yourself with the vehicle's factory wiring harness and the wiring harness provided with the PAC OS5.

Wiring Connections:

Connect the wires from the aftermarket radio to the PAC OS5 wiring harness according to the color codes and functions listed below. Solder all connections and insulate them with heat shrink tubing or electrical tape for reliability and safety.

Wire Color (Aftermarket Radio)	Wire Color (PAC OS5 Harness)	Function
Yellow	Yellow	12V Constant Power
Red	Red	12V Accessory Power
Black	Black	Ground
Orange	Orange	Illumination
Green	Green	Parking Brake Output
Blue/White	Blue/White	Amplifier Turn-On
Speaker Wires	Matching Speaker Wires	Audio Output (Front/Rear, Left/Right)
(Specific to OnStar)	OnStar Wires	OnStar Audio Integration

Note: The PAC OS5 includes specific wires for OnStar integration. These wires must be connected correctly to ensure OnStar functionality is retained. Refer to the detailed wiring diagram included with your specific PAC OS5 unit for precise connections.

Post-Installation:

1. **Test Connections:** Before reassembling the dashboard, reconnect the vehicle's battery and test all functions of the aftermarket radio and retained factory features (OnStar, chimes, steering wheel controls if applicable with an additional module, etc.).
2. **Secure Wiring:** Ensure all wiring is neatly tucked away and secured to prevent rattles or interference.
3. **Reassemble Dashboard:** Carefully reassemble the vehicle's dashboard components.

OPERATING INSTRUCTIONS

Once installed, the PAC OS5 operates automatically to maintain factory features. The aftermarket radio will function as per its own operating manual, while the OS5 ensures the seamless integration of the following:

- **OnStar:** OnStar services will continue to function through the vehicle's factory controls. Audio from OnStar will be routed through the vehicle's speakers.
- **Warning Chimes:** All factory warning chimes (e.g., seatbelt, door ajar, low fuel) will be generated by the included chime module and audible through the vehicle's speakers.
- **Turn Signal Indicators:** Audible turn signal clicks will be retained.
- **Bose Amplifier:** If equipped, the factory Bose amplifier will be activated and controlled by the aftermarket radio.
- **Rear Seat Audio Controls:** If present, these controls will remain functional for the rear passengers.
- **Backup Sensors/Park Assist:** Audible alerts from these systems will be retained.

No direct user interaction with the OS5 module is required after proper installation.

MAINTENANCE

The PAC OS5 interface is designed for maintenance-free operation. Once installed correctly, it does not require regular servicing. To ensure longevity:

- Ensure all wiring connections are secure and properly insulated during installation.
- Avoid exposing the module to extreme temperatures or moisture.
- Do not attempt to open the module casing, as this may void the warranty and damage internal components.

TROUBLESHOOTING

If you encounter issues after installing the PAC OS5, refer to the following common troubleshooting steps:

- **No Audio from Aftermarket Radio:**
    - Verify the aftermarket radio's power and ground connections.
    - Check the amplifier turn-on wire (Blue/White) from the aftermarket radio to the OS5 harness.
    - Ensure speaker wires are correctly connected and not shorted.

- **No Chimes or OnStar Audio:**
    - Confirm the chime module (CMX) is properly connected to the OS5 interface.
    - Verify the OnStar specific wires are correctly integrated.

- **Vehicle Warning Lights or Error Messages:**
    - Ensure all data bus connections are secure and correct. Incorrect data connections can cause vehicle communication errors.
    - Double-check all wiring for shorts or incorrect connections.
    - Disconnect the battery for 10-15 minutes to reset the vehicle's computer, then reconnect and retest.

- **Aftermarket Radio Not Turning On/Off with Ignition:**
    - Check the 12V accessory power (Red wire) connection.

If problems persist after following these steps, contact PAC technical support or consult a professional car audio installer.

SPECIFICATIONS

Feature	Detail
Model Number	OS5
Item Weight	12.8 ounces
Product Dimensions	9 x 2 x 9 inches
Vehicle Compatibility	Select GM vehicles with 29-bit GMLAN data bus
Retained Features	OnStar, Bose Amplifier, Warning Chimes, Turn Signals, Rear Seat Audio, Backup Sensors

WARRANTY AND SUPPORT

Warranty: The manufacturer's warranty for the PAC OS5 interface is provided by PAC. For specific warranty terms and conditions, please contact the manufacturer directly or refer to the warranty information included with your product packaging.

Technical Support: For technical assistance, installation questions, or troubleshooting beyond the scope of this manual, please contact PAC customer support. Contact information can typically be found on the manufacturer's official website or on the product packaging.