

PAC RP5-GM31

PAC RP5-GM31 Radio Replacement Interface User Manual

Model: RP5-GM31

INTRODUCTION

The PAC RP5-GM31 Radio Replacement Interface is designed to facilitate the installation of an aftermarket radio in select GM LAN vehicles while retaining essential factory features. This interface ensures the continued functionality of OnStar, steering wheel controls, and provides navigation outputs, offering a seamless integration solution for your vehicle's audio system upgrade.

WHAT'S IN THE BOX

- PAC RP5-GM31 Interface Module
- Wiring Harnesses
- Antenna Adapter
- Product Manual (this document)
- Additional components as required for specific vehicle models



Figure 1: Components included with the PAC RP5-GM31 interface.

SETUP AND INSTALLATION

Installation of the PAC RP5-GM31 requires technical knowledge of automotive electrical systems. It is recommended that installation be performed by a qualified professional.

1. **Preparation:** Disconnect the vehicle's negative battery terminal before beginning any electrical work.
2. **Wiring Connections:** Connect the RP5-GM31 wiring harnesses to your new aftermarket radio's harness. Ensure all connections are secure and insulated. Refer to the detailed wiring diagrams provided in the official [User Manual \(PDF\)](#) for specific wire color codes and functions.
3. **DIP Switch Configuration:** Configure the DIP switches on the RP5-GM31 module according to your specific vehicle model and aftermarket radio. Incorrect DIP switch settings can lead to improper functionality. Consult the official [User Manual \(PDF\)](#) for the correct settings.
4. **Module Placement:** Secure the RP5-GM31 module in a safe, dry location behind the dashboard, ensuring it does not interfere with other vehicle components.

5. **Testing:** Reconnect the vehicle's battery. Test all functions of the aftermarket radio, including audio, steering wheel controls, OnStar, and navigation outputs, before fully reassembling the dashboard.

For comprehensive, step-by-step installation instructions and detailed wiring diagrams, please refer to the official [User Manual \(PDF\)](#) provided by PAC.

OPERATING FEATURES

The PAC RP5-GM31 interface is designed to maintain key factory features after installing an aftermarket radio:

- **OnStar Retention:** Retains full OnStar functionality when the factory radio is replaced.
- **Steering Wheel Control Retention:** Allows continued use of factory steering wheel audio controls with your new aftermarket radio.
- **Navigation Outputs:** Provides essential navigation outputs such as parking brake, reverse wire, and vehicle speed sense (VSS) for compatible aftermarket navigation systems.
- **Factory Bluetooth Retention:** For 2009 and newer model vehicles, the factory Bluetooth system is retained.
- **Rear Seat Audio Controls:** Retains the functionality of rear seat audio controls.
- **Dual Zone Function:** Supports dual zone audio functionality.
- **Illumination Output:** Provides an illumination output for aftermarket radio integration.
- **Parking Brake Output:** Provides a parking brake output signal.

MAINTENANCE

The PAC RP5-GM31 interface module is a sealed electronic device and requires minimal maintenance. Ensure it is installed in a dry environment, away from excessive heat, moisture, and direct sunlight. Do not attempt to open or repair the module, as this will void the warranty.

TROUBLESHOOTING

If you encounter issues with your PAC RP5-GM31 interface, please consult the official [Troubleshooting Guide \(PDF\)](#) for detailed solutions. Common issues and their potential causes include:

- **No Power to Aftermarket Radio:** Check all power connections and vehicle fuses. Verify the RP5-GM31 module is receiving power.
- **Steering Wheel Controls Not Functioning:** Ensure DIP switch settings are correct for your vehicle and radio. Verify the steering wheel control wires are properly connected. Some aftermarket radios may require specific programming for steering wheel controls.
- **No Audio or Intermittent Audio:** Check speaker wire connections and ensure the factory amplifier (if present) is properly integrated.
- **OnStar Not Working:** Verify all OnStar related connections are secure and the module is correctly configured.
- **Chime Volume Issues:** The chime generator's volume may vary. Refer to the troubleshooting guide for potential adjustments or solutions.

For further assistance, contact PAC technical support.

SPECIFICATIONS

Feature	Detail
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Feature	Detail
Brand	PAC
Model	RP5-GM31
Material	Alloy Steel
Item Dimensions (L x W x H)	1 x 4 x 1.5 inches
Item Weight	0.96 ounces
Cable Type	Proprietary data and power cables
Manufacturer	AAMP OF AMERICA
UPC	809188493242, 190283086638, 606523109246, 804066826648, 807032937836
Voltage	1.5 Volts
Country of Origin	China

WARRANTY AND SUPPORT

For information regarding product warranty, please refer to the documentation included with your purchase or visit the official PAC website. For technical support, installation assistance, or troubleshooting beyond this manual, please contact PAC customer service directly.

IMPORTANT SAFETY INFORMATION

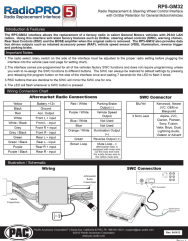
WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

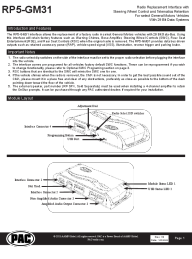
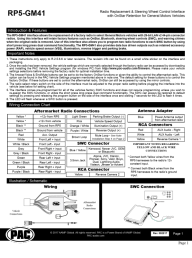
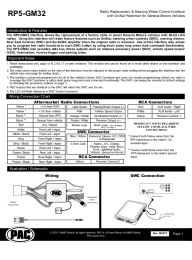
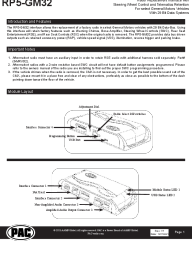
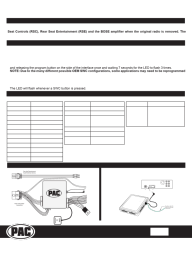
Always ensure proper ventilation during installation and handling. Follow all local and national electrical codes and safety guidelines.

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This manual is for informational purposes only. PAC is not responsible for any discrepancies or inconsistencies that may arise from the use of this manual.

Related Documents - RP5-GM31

	<p>RP5-GM32 Radio Replacement & Steering Wheel Control Interface Installation Guide</p> <p>Detailed installation guide for the PAC RP5-GM32 Radio Replacement and Steering Wheel Control Interface, designed for General Motors vehicles with OnStar retention. Includes wiring, programming, and testing instructions.</p>
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	<p>RP5-GM31 PAC Radio Replacement Interface Installation and Programming Guide</p> <p>Detailed installation, programming, and troubleshooting guide for the PAC RP5-GM31 radio replacement interface, designed for select General Motors vehicles. Retains factory features like SWC, OnStar, and Bose amplifier.</p>
	<p>PAC RP5-GM41 Radio Replacement and Steering Wheel Control Interface Installation Guide</p> <p>Detailed installation guide for the PAC RP5-GM41 interface, enabling radio replacement and retention of factory features like OnStar and steering wheel controls in General Motors vehicles. Includes wiring diagrams, programming instructions, and a technical bulletin for accessory power issues.</p>
	<p>PAC RP5-GM32 Radio Replacement and Steering Wheel Control Interface Installation Guide</p> <p>Comprehensive guide for installing the PAC RP5-GM32 interface to replace factory radios in General Motors vehicles, retaining OnStar, steering wheel controls, and factory amplifiers. Includes wiring, programming, and troubleshooting steps, plus a technical bulletin on power output issues.</p>
	<p>PAC RP5-GM32 Radio Replacement Interface Installation and Programming Guide</p> <p>Comprehensive guide for the PAC RP5-GM32 interface, detailing installation, steering wheel control (SWC) programming, rear seat entertainment (RSE) retention, and firmware updates for select General Motors vehicles equipped with 29-bit data systems.</p>
	<p>PAC RP5-GM11 Radio Replacement and Steering Wheel Control Interface Installation Guide</p> <p>This guide provides instructions for installing the PAC RP5-GM11 interface, which allows for factory radio replacement in General Motors vehicles while retaining features like OnStar, steering wheel controls, and factory amplifiers. It includes wiring diagrams, programming instructions, and troubleshooting tips.</p>