



Manuals.plus /

› PAC /

› PAC SWI-RC-1 Steering Wheel Control Interface User Manual

PAC SWI-RC-1

PAC SWI-RC-1 Steering Wheel Control Interface User Manual

Brand: PAC | Model: SWI-RC-1

1. INTRODUCTION

The PAC SWI-RC-1 Steering Wheel Control Interface is designed to seamlessly integrate your vehicle's factory steering wheel controls with an aftermarket radio. This universal interface supports a wide range of vehicles and major radio brands, allowing you to retain the convenience and safety of your steering wheel controls after upgrading your car's audio system.

2. SAFETY INFORMATION

- Always disconnect the vehicle's negative battery terminal before beginning any installation.
- Professional installation is recommended for optimal performance and safety.
- Ensure all wiring connections are secure and properly insulated to prevent short circuits.
- Do not operate the vehicle or attempt to program the device while driving.
- Keep the device away from moisture and extreme temperatures.

3. PRODUCT OVERVIEW

The PAC SWI-RC-1 offers advanced features for integrating steering wheel controls:

- Fast and easy steering wheel control retention for over 3000 vehicles.
- Quick and easy pre-programmed button function by DIP switch selection.
- Works on Analog (resistive) and Data SWC systems.
- Compatible with vehicles featuring CAN-Bus, GMLAN, CLASS II, LIN-Bus, I-BUS, or analog SWC.
- Supports classic, SWI-RC style button programming.
- Customizable button functions including short press, long press, and button reassignment.
- Provides a 2 amp, 12-volt accessory output for CAN-Bus, LAN, and Class II applications.
- Compatible with all late model brands of radios with 3.5mm or two-wire connections.



Figure 1: The PAC SWI-RC-1 module along with its various wiring harnesses for vehicle integration.

4. PACKAGE CONTENTS

Your PAC SWI-RC-1 package should include the following items:

- PAC SWI-RC-1 Interface Module

- Main Wiring Harness
- 3.5mm Jack to Two-Wire Connection Cable
- Instruction Manual (this document)

5. SETUP & INSTALLATION

Installation of the PAC SWI-RC-1 involves three main steps:

5.1. Pre-Installation Checklist

- Ensure your aftermarket radio is equipped with a wired remote input (e.g., 3.5mm headphone style jack or a Blue/Yellow wire labeled W/R, REM, Wired Remote, Remote, Rem Cont).
- Gather necessary tools: wire strippers, crimpers, electrical tape, multimeter, and vehicle-specific panel removal tools.

5.2. Step 1: Select Your Device, Vehicle, and Radio via Web App

Go to pac-audio.com/swi-rc-1 on your PC or mobile device. Follow the on-screen prompts to select your specific vehicle (make, model, year) and aftermarket radio brand and model. This step is crucial for generating the correct DIP switch settings and wiring diagram for your application.



Figure 2: Quick Start Guide illustrating the initial steps using the PAC web application for configuration.

5.3. Step 2: Set the DIP Switches

Based on the information provided by the PAC web app, set the DIP switches on the SWI-RC-1 module. The web app will display a clear image or diagram indicating the correct positions for your specific vehicle and radio combination.

5.4. Step 3: Wire the Module

Follow the detailed wiring diagram provided by the PAC web app. This diagram will show you how to

connect the SWI-RC-1's wiring harness to your vehicle's factory wiring and your aftermarket radio. Ensure all connections are made accurately and securely.

Important Compatibility Notes:

- **Kenwood Models:** KDC-X598, KDC-BT318U, KDCBT-758-HD, KDCBT-558U & KDC-X798 are not compatible. These models require the SWI-CP5.
- **Clarion CZ500:** Does not support remote Bluetooth controls.
- **JVC KW-NT1 and KW-NT3HDT:** Do not support Presets Up and Down from steering wheel controls.
- **Pioneer AVIC-Fxxx Radios:** Do not interpret radio preset seeking commands. This is a radio limitation.
- **Pioneer Radios with Bluetooth:** Steering wheel controls will not adjust phone call volume. Volume must be adjusted on the radio face. This is a radio limitation.
- **Pioneer AVIC-Z110BT, Z120BT, Z130BT, Z140BH and AVIC-X920BT, X930BT, X940BT:** Only these models support Voice Recognition via wired remote input.

What's New: SWI-RC-1 vs. SWI-RC



SWI-RC-1 offers many time saving improvements, more vehicle coverage and an improved feature set over the classic SWI-RC



Feature/Benefit	SWI-RC-1	SWI-RC
Works with CAN-Bus and other data SWC systems for more vehicle coverage	✓	✗
Works with analog/resistive SWC systems	✓	✓
12 Volt Accessory Output (CAN-Bus, LAN, Class II Applications) saves time looking for accessory wire	✓	✗
Pre-programmed button functions, selectable by DIP switches, reduces installation time	✓	✗
Programs by Classic SWI-RC Button Learning Mode	✓	✓
Radio selection by DIP Switch setting offers improved radio selection precision	✓	✗
2 Wire Resistive SWC Outputs for Power Acoustik, Soundstream, Pumpkin, Fahrenheit etc...	✓	✗
Compatible with late model Alpine/Kenwood/JVC/Sony radios	✓	✗
Quick on-line programming instructions eliminates cumbersome paper instructions	✓	✗

Figure 3: Comparison of wiring functions between SWI-RC-1 and classic SWI-RC modules.

6. OPERATING INSTRUCTIONS

Once installed and configured, the PAC SWI-RC-1 allows you to operate your aftermarket radio using your vehicle's factory steering wheel controls. The functionality of each button can be customized via the PAC web app during the setup process.

- **Standard Functions:** Typically, buttons like Volume Up/Down, Seek/Track Up/Down, and Mode/Source will function as expected.
- **Customizable Functions:** The interface supports assigning different functions to a short press versus a long press of a button, allowing for expanded control options. Refer to your specific configuration from the PAC web app for assigned functions.

7. MAINTENANCE

The PAC SWI-RC-1 is a low-maintenance device. To ensure its longevity and proper function:

- Keep the module and its connections free from dust and debris.
- Avoid exposing the module to excessive moisture or direct sunlight.
- Do not attempt to open the module casing, as this may void the warranty.

8. TROUBLESHOOTING

If you encounter issues with your PAC SWI-RC-1, consider the following:

- **No Functionality:** Double-check all wiring connections for proper contact and insulation. Verify that the DIP switches are set correctly according to the PAC web app.
- **Incorrect Button Response:** Revisit the PAC web app to confirm your button programming. Ensure that the correct functions are assigned to each button press (short vs. long).
- **Specific Radio Limitations:** Refer to the compatibility notes in Section 5.4. Some radio models have inherent limitations that the SWI-RC-1 cannot overcome.
- **Power Issues:** Ensure the vehicle's battery is properly connected and providing adequate power.

For further assistance, consult the detailed installation guides available on the PAC website or contact technical support.

9. SPECIFICATIONS

Feature	Specification
Model	SWI-RC
Item Model Number	SWI-RC-1
Item Weight	3.52 ounces
Product Dimensions	1 x 3 x 1 inches
Voltage	12 Volts
Special Features	Wireless

10. WARRANTY

The PAC SWI-RC-1 Steering Wheel Control Interface comes with a **3-year warranty** from the date of purchase. Please retain your proof of purchase for warranty claims.

11. SUPPORT

For technical support or further inquiries, please contact PAC customer service:

- **Phone:** 1-866-427-2999
- **Operating Hours:** Monday to Friday: 8:30 AM to 5:00 PM EST, Saturday: 10:00 AM to 4:00 PM EST
- **Website:** www.pac-audio.com