

### Introduction & Features

The RP3-GM12 interface allows the replacement of a factory radio in select General Motors vehicles with Class II radios. Using this interface will retain factory features such as Warning Chimes when the original radio is removed. The RP3-GM12 provides data bus driven outputs such as retained accessory power (RAP), vehicle speed sensor (VSS), illumination, reverse trigger and parking brake. The RP3-GM12 also provides a secondary output for adding an optional PAC Steering Wheel Control (SWC) retention interface (SWI-RC, SWI-PS, SWI-JACK, SWI-ECL2 or SWI-X).

### Important Notes

1. For BOSE systems, the recommended line level input is between 2-4 volts from the aftermarket radio.
2. To prevent over driven audio when installing into a vehicle with a BOSE system and the aftermarket radio does not have low level outputs then an LOC (part # SOEM-4 or LP3-4) is recommended to match the input voltage.
3. Use the 4 position selector switch located on the side of the interface to select the best chime output for your specific installation.

### Wiring Connection Chart

#### Interface Connector

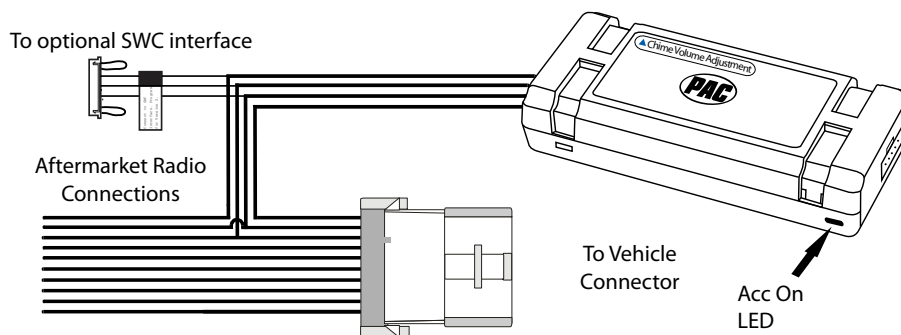
|                |                           |
|----------------|---------------------------|
| Red / White    | Parking Brake Output (-)* |
| Purple / White | Vehicle Speed Output*     |
| Blue / White   | Amp Turn On Input         |
| Red            | Accessory Output (10 amp) |
| Orange / White | Illumination Output (+)*  |
| Green          | Reverse Output (+)*       |

**\*Not all radios will have these connections. Please insulate these wires when not used.**

#### Vehicle Connector

|                |                  |
|----------------|------------------|
| Yellow         | Battery +12v     |
| Black          | Ground           |
| Blue           | Antenna On Input |
| White          | Front L + input  |
| White / Black  | Front L - input  |
| Grey           | Front R + input  |
| Grey / Black   | Front R - input  |
| Green          | Rear L + input   |
| Green / Black  | Rear L - input   |
| Purple         | Rear R + input   |
| Purple / Black | Rear R - input   |

### Illustration / Schematic

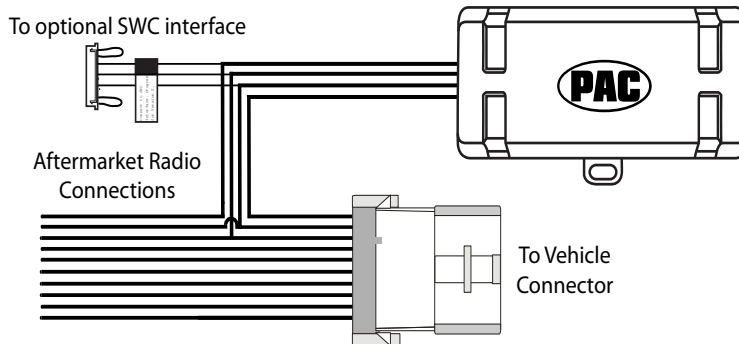


### Installation Steps

1. It is extremely important to make sure the ignition is off and the driver's door open before connecting the interface to the vehicle.
2. Make all connections as described in the chart on page 1. The audio level will vary depending on the new radio's pre-amp output voltage (2-4 volts is recommended).
3. Follow the instructions below if you wish to add an optional SWC retention interface.

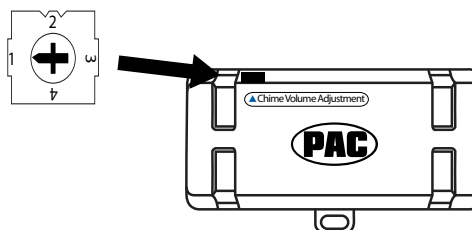
### Steering Wheel Control Output Connector

1. The RP3 provides a SWC output connector attached to the harness. For ease of installation, all necessary connections for an SWI have been made for you.
2. When using this SWC output connector the SWC interface **MUST BE PROGRAMMED FOR VERSION 2.** (refer to SWC interface programming instructions for exact programming sequence).
3. Both loops should remain in tact.
4. During steering wheel button assignment programming the vehicle should be running and each button should be pressed and held for at least 5 seconds. Please refer to the SWI manual for button assignment order.



### Testing & Verification

1. Turn the ignition on. The LED on the interface will turn on & the +12v accessory wire will turn on.
2. Turn on the radio & check balance & fade.
3. Verify that the factory subwoofer (if present) is playing.
4. If an optional SWC retention interface was used, verify that all SWC are functioning properly.
5. Turn off vehicle & remove key. RAP will be active & keep the radio on for 10 minutes or until the driver's door is opened.
6. The LED & radio will turn off when RAP turns off or the driver's door is opened.
7. Use the 4 position selector switch located on the side of the interface to select the best chime output volume for your specific installation. Setting 1 being loudest and 4 softest.



### Product Updates (Firmware)

The RP3-GM12 can be updated with new firmware as it becomes available using the PAC-UP interface updater (sold separately).