

Introduction & Features

The RP5-GM11 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 OnStar, steering wheel controls (SWC), warning chimes, Rear Seat Controls (RSC), Rear Seat Entertainment (RSE) and the BOSE amplifier when the original radio is removed. The RP5-GM11 also provides data bus driven outputs such as retained accessory power (RAP), vehicle speed sensor (VSS), illumination, reverse trigger and parking brake.

Important Notes

1. The radio select rotary switch on the side of the interface must be adjusted to the proper radio setting before plugging the interface into the vehicle (see next page for setting chart).
2. The interface comes pre-programmed for all of the vehicles factory SWC functions and does not require programming unless you wish to re-assign the SWC functions to different buttons. The SWC can always be restored to default settings by pressing and releasing the program button on the side of the interface once and waiting 7 seconds for the LED to flash 3 times.
3. The aftermarket radio must have an auxiliary input in order for the factory RSE audio to be retained through the cabin speakers.
4. RSC buttons that are identical to the SWC will mimic the SWC one for one.
5. The LED will flash whenever a SWC button is pressed.

Wiring Connection Chart

Aftermarket Radio Connections

| | |
|----------------|------------------|
| Yellow | Battery +12v |
| Black | Ground |
| Red | Accessory Output |
| 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 |

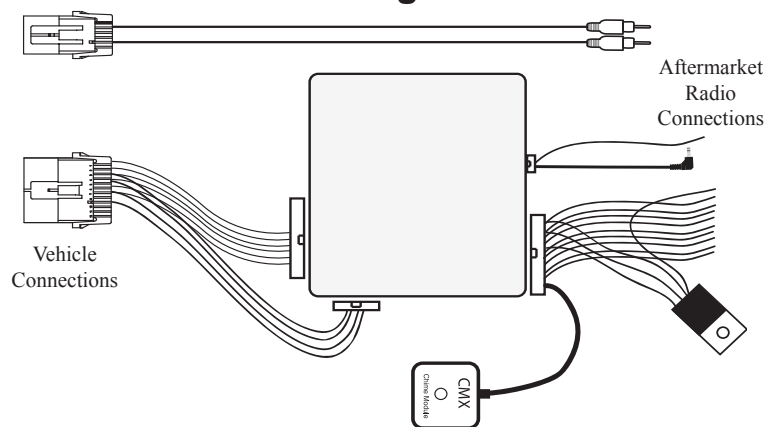
| | |
|----------------|--------------------------------------|
| Red / White | Parking Brake Output (-) |
| Purple / White | Vehicle Speed Output |
| Blue | Not Used |
| Blue / White | Amp Turn On Input |
| Orange / White | Illumination Output (+) |
| Green | Reverse Output (+) |
| Brown Loop | Mute Loop - See installation note 6. |

SWC Connector

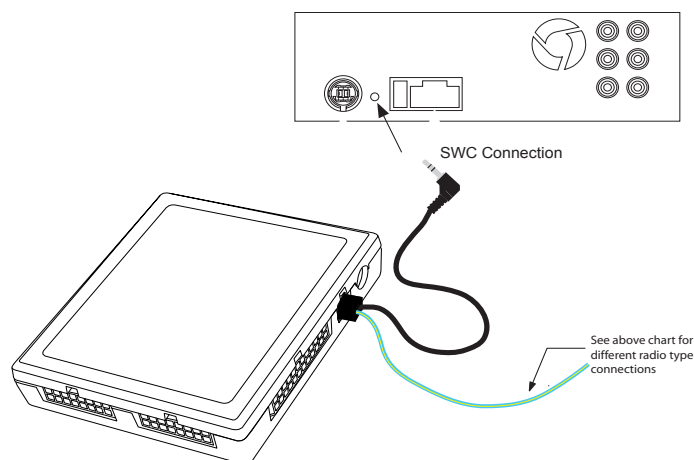
| | |
|------------|---|
| Blu/Yel | Kenwood, Newer JVC |
| 3.5mm Jack | Alpine, JVC, Clarion, Pioneer, Sony, Fusion, Boyo, Dual, Lightning Audio, Visteon or Advent |

Illustration / Schematic

Wiring



SWC Connection



Installation Steps

SET RADIO SELECT SWITCH



| Alpine | Clarion | Fusion | JVC | Kenwood | Pioneer/Sony/Other |
|--------|---------|--------|-----|---------|--------------------|
| 1 | 4 | 9 | 2 | 3 | 7 |

Other = Advent, BOYO, Dual, Lightning Audio, Visteon,

1. The radio select rotary switch on the side of the interface must be adjusted to the proper radio setting before plugging the interface into the vehicle.
2. Make all connections as described in the chart on page 1.
3. Factory installed amplifiers will determine the audio output connection. If the vehicle has a factory installed amplifier use the factory amplifier audio location. If a factory installed amplifier is not present use the non-amplified factory audio location.
4. 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 secondary harness into the radios auxiliary input.
5. Plug the CMX chime module in if necessary (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.
6. The Mute loop (if not cut) will turn the accessory output off when an OnStar or Bluetooth call is made or received. If the aftermarket radio has a mute input cut this loop and connect the outer brown wire to the mute input.
7. Connect the SWC wire according to the chart on page 1 (aftermarket radio MUST support a wired remote input).
8. If you wish to reassign functions to the SWC follow the programming instructions in the next section.

Default Steering Wheel Control Programming

IMPORTANT! The interface comes pre-programmed for the functions listed in the chart below and does not require programming unless you wish to re-assign the SWC functions to different buttons. The SWC can always be restored to default settings by pressing the program button on the side of the interface once and waiting seven seconds for the LED to flash three times.

Default SWC Button Assignments

| | Alpine | JVC | Kenwood | Clarion | Sony/Pioneer | Fusion |
|-------------|-----------|----------|----------|----------|--------------|----------|
| Volume + | Volume + | Volume + | Volume + | Volume + | Volume + | Volume + |
| Volume - | Volume - | Volume - | Volume - | Volume - | Volume - | Volume - |
| Source Up | Source | Source | Disc/FM+ | Source | Source | Source |
| Source Down | Band | Preset + | Disc/AM | N/P | Band | Off |
| Seek Up | Track + | Track + | Track + | Search + | Track + | Track + |
| Seek Down | Track - | Track - | Track - | Search - | Track - | Track - |
| Voice | Mute | Mute | Mute | Mute | Mute | Mute |
| Prog | Preset Up | Preset - | Source | Band | Preset + | Audio |

Default SWC Button Assignments (Corvette)

| | Alpine | JVC | Kenwood | Clarion | Sony/Pioneer | Fusion |
|-----------|----------|----------|----------|----------|--------------|----------|
| Volume + | Volume + | Volume + | Volume + | Volume + | Volume + | Volume + |
| Volume - | Volume - | Volume - | Volume - | Volume - | Volume - | Volume - |
| Seek Up | Track + | Track + | Track + | Search + | Track + | Track + |
| Seek Down | Track - | Track - | Track - | Search - | Track - | Track - |
| Voice | Mute | Mute | Mute | Mute | Mute | Mute |
| End | Source | Source | Source | Source | Source | Source |

Optional Steering Wheel Control Programming

If you wish to re-assign the SWC functions, the interface must be programmed in the specific order shown in the chart below. If you come across a function in the chart that your steering wheel does not have, or you do not want to program, press and release the program button on the side of the interface to skip that function. The LED will flash off and on confirming that you have successfully skipped that function and are ready to proceed to the next one.

SET RADIO SELECT SWITCH



| | | | | | |
|--------|---------|--------|-----|---------|--------------------|
| Alpine | Clarion | Fusion | JVC | Kenwood | Pioneer/Sony/Other |
| 1 | 4 | 9 | 2 | 3 | 7 |

Other = Advent, BOYO, Dual, Lightning Audio, Visteon,

1. Turn the key to the ignition position.
2. Press and release programming button on the side of the interface.
3. Within 7 seconds, press and release the button that is to be learned on the steering wheel. The LED will turn off when the button is pressed and come back on when it is released.
4. If you need to program more buttons, repeat step 3 for each additional audio function on the steering wheel.
5. If you come across a function in the chart that your steering wheel does not have, or you do not want to program, press and release the program button on the side of the interface to skip that function.
6. Once programming is completed, wait seven seconds. The LED will flash three times indicating end of programming.
7. Test the interface for proper functionality. Whenever a SWC is pressed the LED on the interface should blink. If any function does not work, repeat the programming steps

Optional Programming Order

| Radio | Alpine | JVC | Kenwood | Clarion | Other* | Sony | Pioneer | Fusion |
|-------|--------------|---------------|---------------------------------|----------|----------|---|------------------|----------|
| 1 | Volume + | Volume + | Volume + | Volume + | Volume + | Volume + | Volume + | Volume + |
| 2 | Volume - | Volume - | Volume - | Volume - | Volume - | Volume - | Volume - | Volume - |
| 3 | Mute | Mute | Mute | Mute | Mute | Mute | Mute | Mute |
| 4 | Preset + | Source | Source | Source | Preset + | Preset + | Preset + | Source |
| 5 | Preset - | Track + | Play | Search + | Preset - | Preset - | Preset - | Track + |
| 6 | Source | Track - | Track + | Search - | Source | Source | Source | Track - |
| 7 | Track + | Band/Disc + | Track - | Band | Track + | Track + | Track + | Audio |
| 8 | Track - | Preset/Disc - | Disc/FM + | Send/End | Track - | Track - | Track - | Power |
| 9 | Power | Select | Disc/AM - | Send | Band | Band | Band | |
| 10 | Enter/Play | Attenuation | Answer | End | | Reject Call/Source (Bluetooth equipped radios only) | Phone Menu | |
| 11 | Band/Program | Phone Receive | Voice Dial | | | Skip | Answer Call | |
| 12 | Receive | Phone Reject | On Hook | | | Skip | End Call | |
| 13 | End | Voice Dial | Off Hook | | | Skip | Voice Activation | |
| 14 | | Power | Mute (Multimedia units only) | | | Answer/End Call | | |

*Other = Advent, Boyo, Dual, Lightning Audio, Rockford Fosgate, & Visteon

Testing & Verification

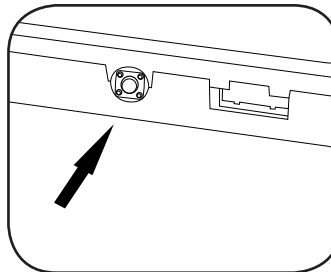
1. Turn the ignition on. The LED on the interface will turn on & the +12v accessory wire will turn on.
2. Turn on the radio & check balance & fade. Note: **Premium Factory amplified Systems** will not fade as neither the aftermarket radio or the RP interface have the ability to control the amplifier's fader.
3. Verify that the factory subwoofer (if present) is playing
4. Verify that all SWC 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 to adjust the level. The volume will raise a total of 8 times before returning to the original 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 Mute/OnStar® button on the steering wheel for 1.5 seconds will also activate Onstar®.
6. Turn off vehicle & remove key. RAP will be active & keep the radio on for 10 minutes or until the drivers door is opened.
7. The LED & radio will turn off when RAP turns off or the drivers door is opened.

Rear Seat Entertainment (RSE); If equipped

The factory RSE system will function independantly from the aftermarket radio. The unit will power up and pass audio through the headphones as long as the vehicles 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.

OnStar Volume Adjustment for Vehicles w/o SWC

1. If SWC buttons are not present you must use the programming button on the interface to control the OnStar audio level during an OnStar connection.
2. When OnStar is active pressing the programming button will raise the audio level 8 times before returning to the original level.



Press the programming button on the side of the interface while OnStar is active to adjust the OnStar volume

Product Updates (Firmware)

The RP5-GM11 can be updated with new firmware as it becomes available using the PAC-UP interface updater (sold separately). Please visit www.pac-audio.com/firmware for available updates.