

Introduction & Features

The RP4-CH11 interface allows the replacement of a factory radio in select Chrysler/Dodge/Jeep vehicles with MSCAN or LSFT-CAN databus radios. Using this interface will retain factory features such as steering wheel controls (SWC) vehicle entertainment system (VES) and the factory audio amplifier whenever the original radio is removed. The RP4-CH11 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. When the interface is first plugged into the vehicle the LED will flash indicating the auto detect sequence. Once the CAN-BUS speed is detected the LED will illuminate and should be on at all times when the interface is on. The LED will also flash whenever a SWC button is pressed
3. 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 4 times.

Wiring Connection Chart

Interface Connector

Red / White	P.B. Output (-)
Purple / White	VSS Output
Blue / White	Amp Turn On Input
Red	Acc. Output (1 amp)
Orange / White	Illum. Output (+)
Green	Reverse Output (+)

Vehicle Connector

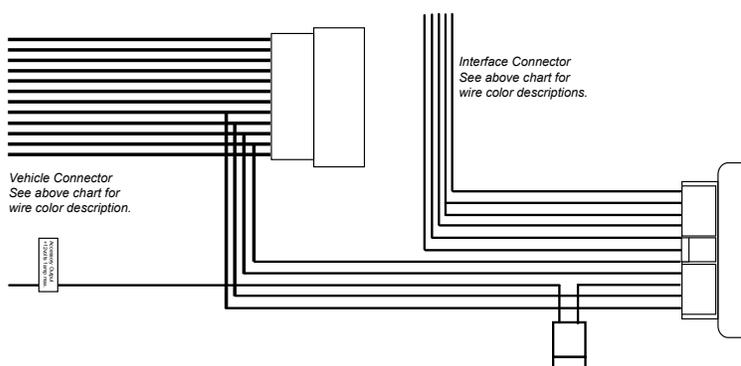
Yellow	Battery +12v
Black	Ground
Blue	Antenna On Input
White	Front L + input
White / Black	Front L - input
Grey	Front R + input
Grey / Black	Front R - input
Green	Rear L + input
Green / Black	Rear L - input
Purple	Rear R + input
Purple / Black	Rear R - input

SWC Connector

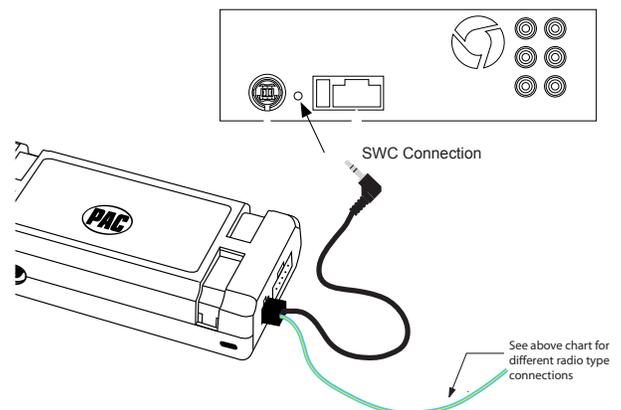
Blu/Yel	Kenwood, Newer JVC, OEM or Blaupunkt
3.5mm Jack	Alpine, JVC, Clarion, Pioneer, Sony, Valor, Boyo, Dual, Visteon or Advent

Illustration / Schematic

Wiring

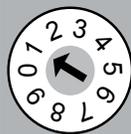


SWC Connection



Installation Steps

SET RADIO SELECT SWITCH



Alpine	Advent, BOYO, Dual, Visteon, Sony	Blaupunkt	Clarion	JVC	Kenwood	OEM	Pioneer	Valor
1	7	8	4	2	3	6	7	5

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 page 2 for setting chart).

- Only one of the two provided radio harnesses will be used. Remove the factory installed radio to determine the correct harness for your particular vehicle.
- Make all connections as described in the connection chart on page 1. **Vehicles without a factory amplifier:** Connect the aftermarket radio's front and rear speaker wires to the vehicle connector. **Vehicles with a factory amplifier:** The factory amplifier only accepts two channels of audio input (left and right). Connect the front outputs of the aftermarket radio to the rear inputs of the vehicle connector. This will allow navigation voice prompts and Bluetooth calls to be heard. The rear speaker outputs of the aftermarket radio are not used. Fading is not supported in this application. The factory amplifier's fading is controlled by data communication from the factory radio. Neither the aftermarket radio or the RP interface have the ability to control the amplifier's fader.
- Connect the SWC wire according to the chart on page 1 (aftermarket radio MUST support a wired remote input)
- If you wish to reassign functions to the SWC follow the programming instructions in the next section.

Optional Steering Wheel Control Programming

IMPORTANT! 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 the program button on the side of the interface once and waiting for the timeout.

Default SWC Button Assignments

	Alpine	JVC	Kenwood	Clarion	Valor	OEM	Sony/Pioneer	Blaupunkt
Volume +	Volume +	Volume +	Volume +	Volume +	Volume +	Volume +	Volume +	Volume +
Volume -	Volume -	Volume -	Volume -	Volume -	Volume -	Volume -	Volume -	Volume -
Source	Source	Source	Source	Source	Source	Source	Source	Source
Track +	Track +	Track +	Track +	Search +	Track +	Next	Track +	Track +
Track -	Track -	Track -	Track -	Search -	Track -	Previous	Track -	Track -
Preset +	Preset +	Preset	Disc/Radio +	Band	Mute	Band	Preset +	Disc +
Voice	Mute	Mute	Mute	Mute	Cursor -	Answer	Mute	Mute
Phone	Receive	Receive	Answer	Send/End	Cursor +	Hang Up	Answer	OK

If you wish to re-assign the SWC functions, the interface must be programmed in the specific order shown in the chart on the next page. 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	Advent, BOYO, Dual, Visteon, Sony	Blaupunkt	Clarion	JVC	Kenwood	OEM	Pioneer	Valor
1	7	8	4	2	3	6	7	5

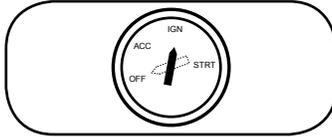
Optional Steering Wheel Control Programming (cont.)

Optional Programming Order

	Alpine	JVC	Kenwood	Clarion	Valor	OEM	Advent, Boyo, Dual, Visteon, Sony	Pioneer	Blaupunkt
1	Volume +	Volume +	Volume +	Volume +	Volume +	Volume +	Volume +	Volume +	Volume +
2	Volume -	Volume -	Volume -	Volume -	Volume -	Volume -	Volume -	Volume -	Volume -
3	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute
4	Preset +	Source	Source	Source	Source	Source	Preset +	Preset +	Source
5	Preset -	Track +	Play	Search +	Track +	Next	Preset -	Preset -	Track +
6	Source	Track -	Track +	Search -	Track -	Previous	Source	Source	Track -
7	Track +	Band/Disc +	Track -	Band	Up Cursor	Play/Ok	Track +	Track +	Disc +
8	Track -	Preset/Disc -	Disc/FM +	Send/End	Down Cursor	Band	Track -	Track -	Disc -
9	Power	Select	Disc/AM -	Send	Ok	Up Cursor	Band	Band	Ok
10	Enter/Play	Attenuation	Answer	End		Down Cursor		Phone Menu	
11	Band/Program	Phone Receive				BT Answer		Answer Call	
12	Receive	Phone Reject				BT Hangup		End Call	
13	End	Voice Dial						Voice Activation	
14		Power							

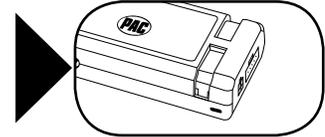
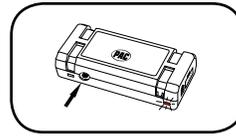
Step A.

Turn the vehicle ignition to the ON position.



Step B.

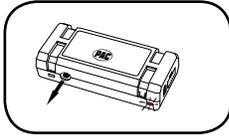
Press and hold the programming button.



LED will turn off.

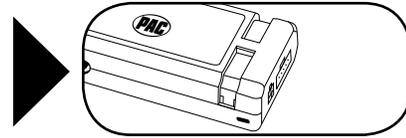
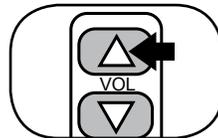
Step C.

Release the programming button. The LED will turn back on.



Step D.

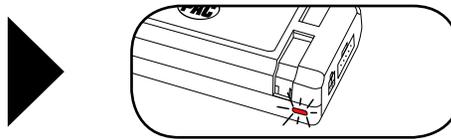
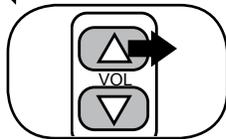
Within 7 seconds, press and release the button that is to be learned on the steering wheel.



The LED will turn off during this process.

Step E.

Release the button.

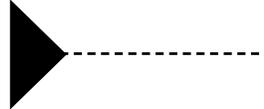


The LED will turn on back on.

Step F.

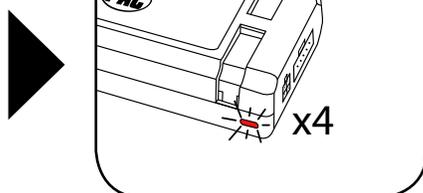
If you need to program more buttons, repeat steps D & E for each additional audio function on the steering wheel.

Program remaining buttons



Step G.

After all buttons are programmed



Once programming is completed, **wait 7 seconds**. The LED will flash four times indicating the end of programming.

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: **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.
4. Turn off vehicle & remove key. RAP will be active & keep the radio on for 10 minutes or until the drivers door is opened.
5. The LED & radio will turn off when RAP turns off or the drivers door is opened.

Vehicle Entertainment System (VES); If equipped

1. Vehicles equipped with a DVD player built into the rear screen assembly:

The RP4-CH11 will allow the VES DVD player and rear screen to function as if the factory radio were present. A/V will be passed from the factory DVD player to the rear screen and audio can be heard through the headphones. A/V cannot be passed from the factory DVD player to the aftermarket head unit.

2. Vehicles equipped with a stand alone VES DVD Player:

The RP4-CH11 will allow the VES DVD player and rear screen(s) to function as if the factory radio were present. A/V will be passed from the factory DVD player to the rear screen(s) and audio can be heard through the headphones. A/V can also be fed from the VES DVD player into an aftermarket head unit (head unit must support A/V in) with the use of the **CHYRVD**. It is **VERY IMPORTANT** that the **RP4-CH11 Blue/White remote input wire be connected for this feature to function properly!**

3. Vehicles not equipped with a VES DVD Player (rear screen(s) only):

In this application the **CHYRVD** must be used in order to feed A/V into the factory screen(s) from an aftermarket head unit (head unit must support A/V out). With the **CHYRVD**, A/V will be passed from the aftermarket head unit to the rear screen(s) and audio can be heard through the headphones. If you wish to retain the Auxiliary inputs on the rear of the console you must disconnect the factory wires from the auxiliary input then connect and run your own RCAs into the aftermarket head unit.

4. Vehicles equipped with a Reverse Camera:

In order to retain the factory reverse camera the **CHYRVD** must be used to feed video into the aftermarket head unit (head unit must support reverse camera input).

Product Updates (Firmware)

The RP4-CH11 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.