

C2R-CHY4

Radio Replacement Interface with Nav Outputs for
select Chrysler / Dodge / Jeep CANbus Vehicles
With or Without Premium Audio Systems

Introduction and Features

The C2R-CHY4 interface allows the replacement of a factory radio in select Chrysler, Dodge and Jeep vehicles with LSFT and MSCAN radios. The C2R-CHY4 also provides a secondary output for adding an optional PAC Steering Wheel Control (SWC) retention interface (SWI-RC, SWI-CP2, SWI-X). The C2R-CHY4 also provides data bus driven outputs such as retained accessory power (RAP), vehicle speed sensor (VSS), illumination, reverse trigger and parking brake.

Important Notes

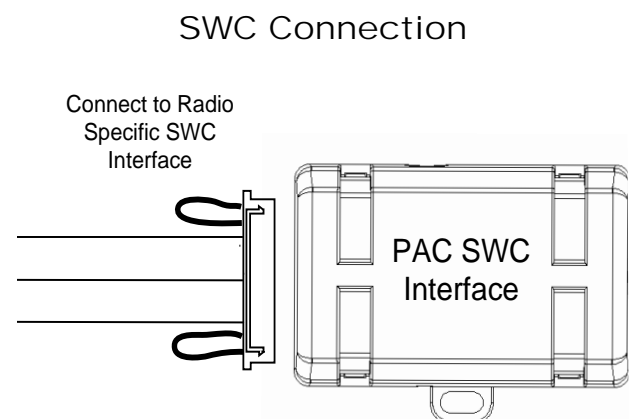
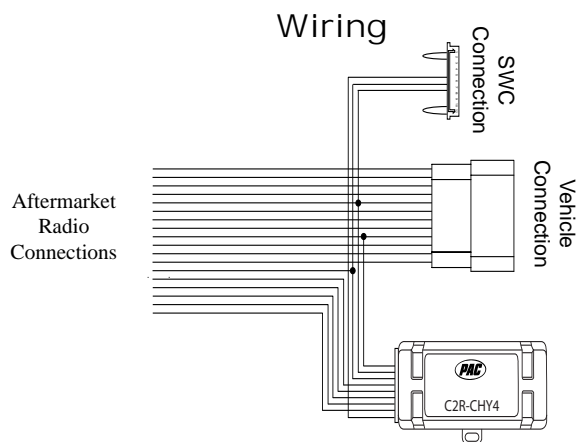
1. A PAC steering wheel interface must be used in conjunction for SWC retention.
2. Only one of the two provided radio harnesses will be used. Remove the factory installed radio to determine the correct harness for your particular vehicle.
3. **Vehicles without a factory amplifier:** Connect the aftermarket radio's front and rear speaker wires to the 22-pin plug.
4. **Vehicles with a factory amplifier:** The factory amplifier only accepts two audio channels (left and right). The amplifier's fading is controlled by data communication from the factory radio. The aftermarket radio does not have the ability to control the amplifier's fader. Connect the **front outputs of the aftermarket radio** to the **rear inputs of the 22-pin radio connector**. This will allow navigation voice prompts and Bluetooth calls to be heard. The rear speaker outputs of the aftermarket radio are not used.

Wiring Connection Chart

Vehicle Connector	
Yellow	Battery +12v
Black	Ground
White	Front Left + input
White / Black	Front Left - input
Gray	Front Right + input
Gray / Black	Front Right - input
Green	Rear Left + input
Green / Black	Rear Left - input
Purple	Rear Right + input
Purple / Black	Rear Right - input

Interface Connector	
Red / White	Parking Brake Output (-)
Purple / White	Vehicle Speed Output
Blue / White	Amp Turn On Input
Red	Accessory Output (1 Amp)
Orange / White	Illumination Output (+)
Green	Reverse Output (+)

Illustration / Schematic



C2R-CHY4

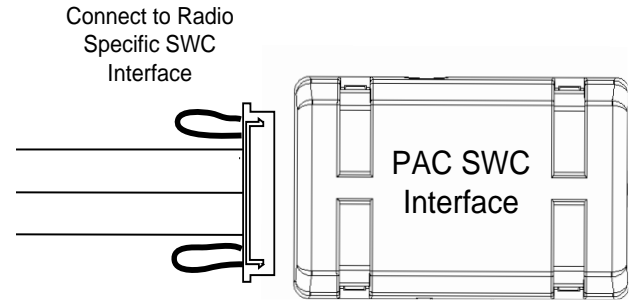
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Installation Steps

1. Remove the factory radio.
2. Make all connections between the aftermarket radio's harness and the supplied vehicle harness as described in the chart on page 1.
3. Be sure to connect the Blue / White wire even if the vehicle is not equipped with an amplifier. This connection is VERY IMPORTANT! Some of the C2R-CHY4 features will not function if this wire is not connected!
4. Connect the C2R-CHY4 harness to the vehicle's harness.
5. If retaining SWC, then follow the steps in the next section "SWC Output Connector"

SWC Output Connector

1. The harness has a SWC output connector. For ease of installation, all necessary connections for an SWI have been made for you. Both loops should remain in tact.
2. When using this SWC output connector with the SWI-RC, the SWC interface must be programmed for version 2 (refer to SWC interface programming instructions for exact programming sequence and button assignment order).
3. When using this SWC output connector with an SWI-CP2, you can either program the SWC interface with a PC or set the DIP switches according to the PC app.



Using the VES and Reverse Camera (if equipped)

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

The C2R-CHY4 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.

Vehicles equipped with a stand alone VES DVD Player:

The C2R-CHY4 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 C2R-CHY4 Blue / White remote input wire be connected for this feature to function properly!**

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.

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).

Testing and Verification

1. Turn the ignition on. The LED on the interface will turn on and the +12v accessory wire will turn on.
2. Turn on the radio and check balance and fade. Note: **Premium Factory amplified Systems** will not fade as neither the aftermarket radio or the C2R interface have the ability to control the amplifier's fader.
3. Verify that all SWC are functioning properly.
4. Turn off vehicle and remove key. RAP will be active and keep the radio on for 10 minutes or until the drivers door is opened.
5. The LED and radio will turn off when RAP turns off or the drivers door is opened.

