



## CRUX CS-CR41 Wiring Interface User Manual

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# CRUX

### CRUX CS-CR41 Wiring Interface



## Product Information

The CS-CR41 is a radio replacement product with SWC (Steering Wheel Control) retention designed for CHRYSLER, DODGE, and JEEP vehicles. It allows you to replace your factory radio with an aftermarket radio while retaining the functionality of your steering wheel controls.

## Product Features

- Radio Replacement with SWC Retention
- Compatible with CHRYSLER, DODGE, and JEEP Vehicles

## Parts Included

- 1st Gen Harness
- 2nd Gen Harness
- SWC Cables

## Installation Diagram

The CS-CR41 includes two harnesses for an older and new model vehicle. Only one of the harness connectors will match the plug-in in your vehicle. Please refer to the installation diagrams provided in the user manual for each harness.

## DIP Switch Settings

Please refer to the DIP switch settings section in the user manual for specific settings based on your aftermarket radio brand. Check the aftermarket radio's manual to see if the SWC buttons need to be programmed.

## Vehicle Applications

The CS-CR41 is compatible with the following vehicles:

- CHRYSLER: 2007-2009 Aspen, 2007-2010 Sebring
- DODGE: 2006-2012 Caliber, 2006-2010 Charger, 2009-2016 Grand Caravan
- JEEP: 2007-2017 Patriot, 2007-2017 Wrangler
- MITSUBISHI: 2009-2010 Journey

## Product Usage Instructions

1. Identify the appropriate harness connector for your vehicle.
2. Connect the aftermarket radio to the factory harness using the provided harnesses.
3. If your vehicle is equipped with Steering Wheel Controls, use the SWC cables to connect the CS-CR41 module to the aftermarket radio.
4. Choose either Option A or Option B based on your radio's requirements.
5. Refer to the speaker wire connections diagram on page 2 of the user manual for proper speaker wire connections.
6. If you have an amplified system, ensure that the rear CS-CR41 speakers are connected to the aftermarket radio front speakers to avoid Bluetooth inaudibility issues.
7. Set the DIP switches on the CS-CR41 module according to the DIP Switch settings provided in the user manual, based on your aftermarket radio brand.
8. If necessary, program the SWC buttons on your aftermarket radio according to its manual.

9. Ensure all connections are secure and properly insulated.

## PRODUCT FEATURES

- Retains factory features in select Chrysler, Dodge, and Jeep vehicles while functioning with an aftermarket radio.
- Retains Steering Wheel Controls via built-in, pre-programmed interface.
- Supports amplified and non-amplified systems.
- Provides a reverse trigger for a rear-view camera.
- EIA color-coded wiring for easy installation.

## NOTES

1. The Front and Rear fading are NON-Adjustable on amplified systems.
2. Also supports radio replacement in vehicles with 4.3" and 8.4" color screens.
3. Does not retain Uconnect.
4. If the vehicle is not equipped with Steering Wheel Controls use part# SOOCR-26

## PARTS INCLUDED



CS-CR41 MODULE



1st Gen Harness



2nd Gen Harness



Audio Filter



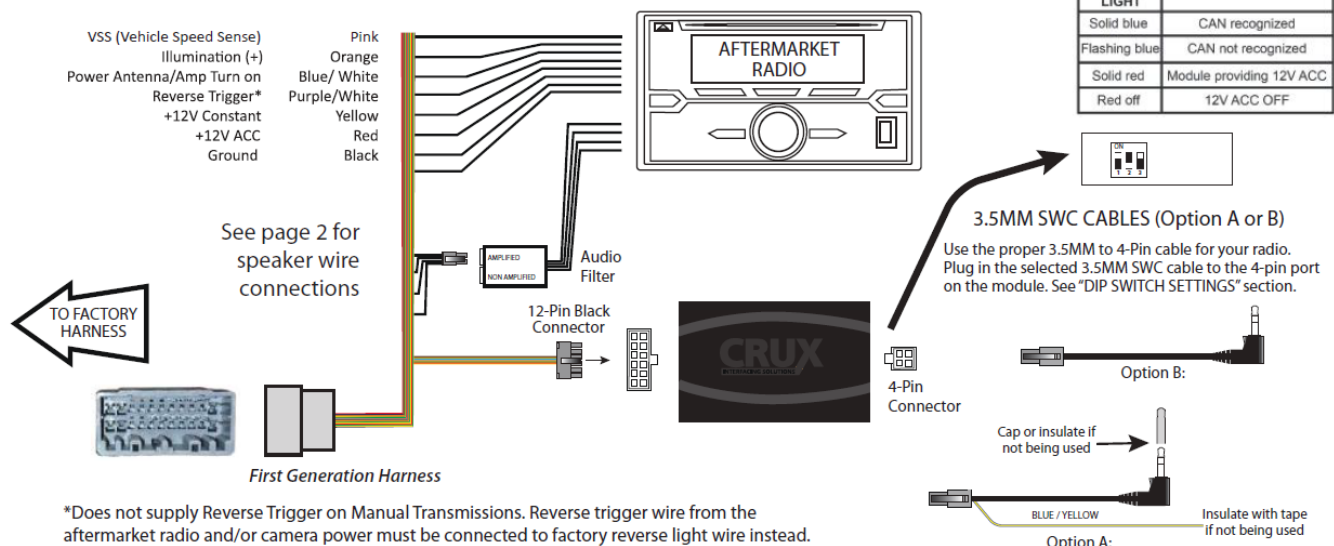
SWC Cables

## INSTALLATION DIAGRAM

The CS-CR41 includes 2 harnesses for older and new model vehicles. Only 1 of the harness connectors will match the plug in your vehicle. See the Installation diagrams below for each harness.

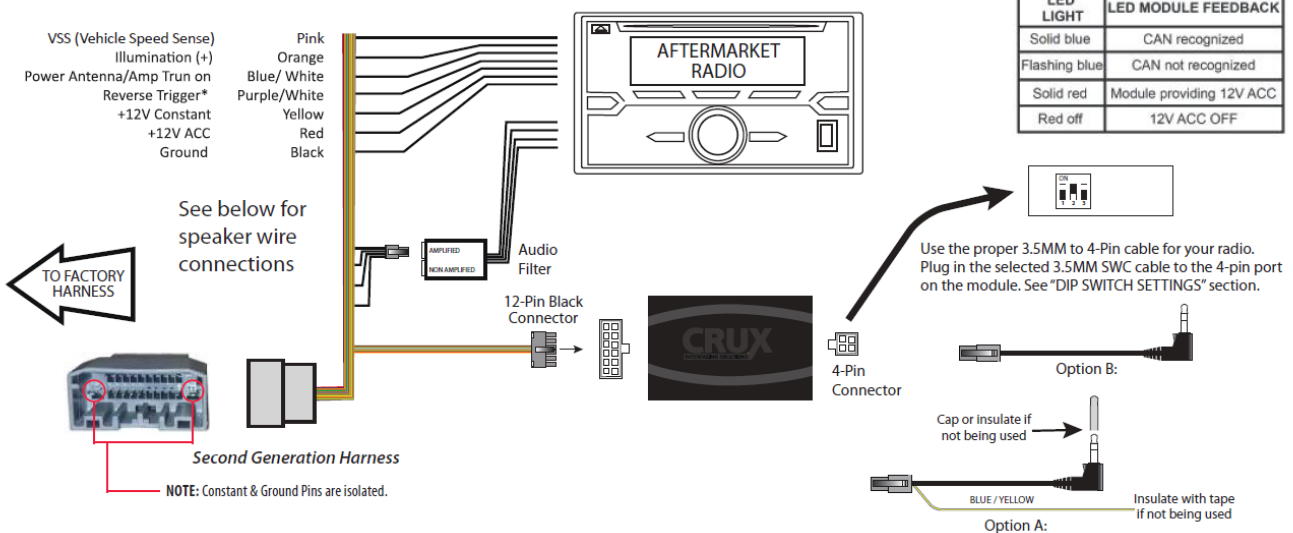
### 1st Generation Harness

## 1st Generation Harness



## 2nd Generation Harness

### 2nd Generation Harness



Does not supply a Reverse Trigger on Manual Transmissions. The reverse trigger wire from the aftermarket radio and/or camera power must be connected to the factory reverse light wire instead

## Speaker wire connections

NON AMPLIFIED SYSTEMS		AMPLIFIED SYSTEMS	
Plug the 4-pin Molex connector to the NON-AMPLIFIED side of the inline filter.		Plug the 4-pin Molex connector to the AMPLIFIED side of the inline filter.	
Wire Connections:		Wire Connections:	
Aftermarket Radio	CS-CR41 Harness	Aftermarket Radio	CS-CR41 Harness
White	White	White	Green
White/Black	White/Black	White/Black	Green/Black
Gray	Gray	Gray	Purple
Gray/Black	Gray/Black	Gray/Black	Purple/Black
Green	Green	Green	Not Used
Green/Black	Green/Black	Green/Black	Not Used
Purple	Purple	Purple	Not Used
Purple/Black	Purple/Black	Purple/Black	Not Used

## LED LED MODU~E FEEDBACK LIGHT

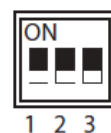
- Solkl blue CAN recognized
- Flashing blue CAN not recognize
- Solid red Module providing 12VACC
- Red off 12VACCOFF

Wire the audio filter using the connection chart below. Plug the 4-pin Molex plug found on the 1st and 2nd generation harnesses to the corresponding 4-pin Molex socket on the audio filter. {Amplified or Non-Amplified)  
 Amplified vehicle troubleshooting: Bluetooth may be inaudible when installing select aftermarket radios. Therefore hook the rear CS-CR41 speakers to the aftermarket radio front speakers

## DIP SWITCH SETTINGS

RADIO BRAND:	DIP#:	1	2	3
Atoto, Dual, Fahrenheit, Jensen		OFF	ON	ON
Pioneer, Power Acoustik, Soundstream		OFF	ON	ON
Blaupunkt, Most off-brand Radio		OFF	ON	ON
Alpine		OFF	OFF	OFF
Clarion		ON	ON	OFF
Kenwood		ON	ON	ON
JVC		ON	OFF	ON
Boss, Old Sony		ON	OFF	OFF
New Sony		OFF	ON	OFF

SWC MODULE  
DIP SWITCH



## AFTERMARKET RADIO DIP SWITCH SETTINGS

**NOTE:** For Atoto, Blaupunkt, Dual, Fahrenheit, Power Acoustik, Soundstream, and most off-brand radios, check the aftermarket radio's manual to see if the SWC buttons need to be programmed.

## 4-PIN SWC CABLE

- Use the proper 3.5mm to 4-Pin SWC cable for the aftermarket radio you are using.
- OPTION A is used for ALPINE, CLARION, JVC, and KENWOOD units (Blue/Yellow wire is attached)
- OPTION Bis used for ATOTO, BLAUPUNKT, BOSS, DUAL, FAHRENHEIT, JENSEN, POWER ACOUSTIK, PIONEER, SONY, SOUNDSTREAM, and Most Off-Brand Radios.

**NOTE:** Cap or insulate the 3.5mm plug or Blue/Yellow wire if not being used. For aftermarket radios that have wires instead of a 3.5mm plug for SWC connection, cut off the 3.5mm plug on the Crux SWC Cable (option B) and connect the SWC wires as follows: Note that there are some radios that only have SWCI and

SWC2, in this case, “shield” does not need to be connected.



VEHICLE APPLICATIONS

CHRYSLER		DODGE		JEEP	
2011-2014	200	2007-2014	Avenger	2006-2010	Commander
2005-2010	300	2006-2012	Caliber	2007-2016	Compass
2007-2009	Aspen	2008-2014	Challenger	2005-2013	Grand Cherokee
2006-2010	PT Cruiser	2006-2010	Charger	2008-2012	Liberty
2007-2010	Sebring	2013	Charger	2007-2017	Patriot
2008-2016	Town & Country	2006-2011	Dakota	2007-2017	Wrangler
		2004-2013	Durango		
		2009-2016	Grand Caravan	MITSUBISHI	
		2009-2010	Journey	2006-2009	Raider
		2013	Journey		
		2005-2008	Magnum	VOLKSWAGEN	
		2007-2011	Nitro	2009-2013	Routan
		2006-2012	RAM		

Crux Interfacing Solutions 21541 Nordhoff St., Unit C, Chatsworth, C 91311

Documents / Resources



[CRUX CS-CR41 Wiring Interface \[pdf\] User Manual](#)  
CS-CR41 Wiring Interface, CS-CR41, Wiring Interface, Interface