CRUX CS-PRS3 Integration Interface Instructions

Contents

CRUX CS-PRS3 Integration Interface

Product and Features

- Rear & Front View Camera Inputs
- Optional coding of ParkAssist to retrofit factory PDC
- Automatically switches screen to Rear-view when Reverse gear is engaged and to front camera view when gear is engaged to drive
- Manual activation of the front camera using the steering wheel control button
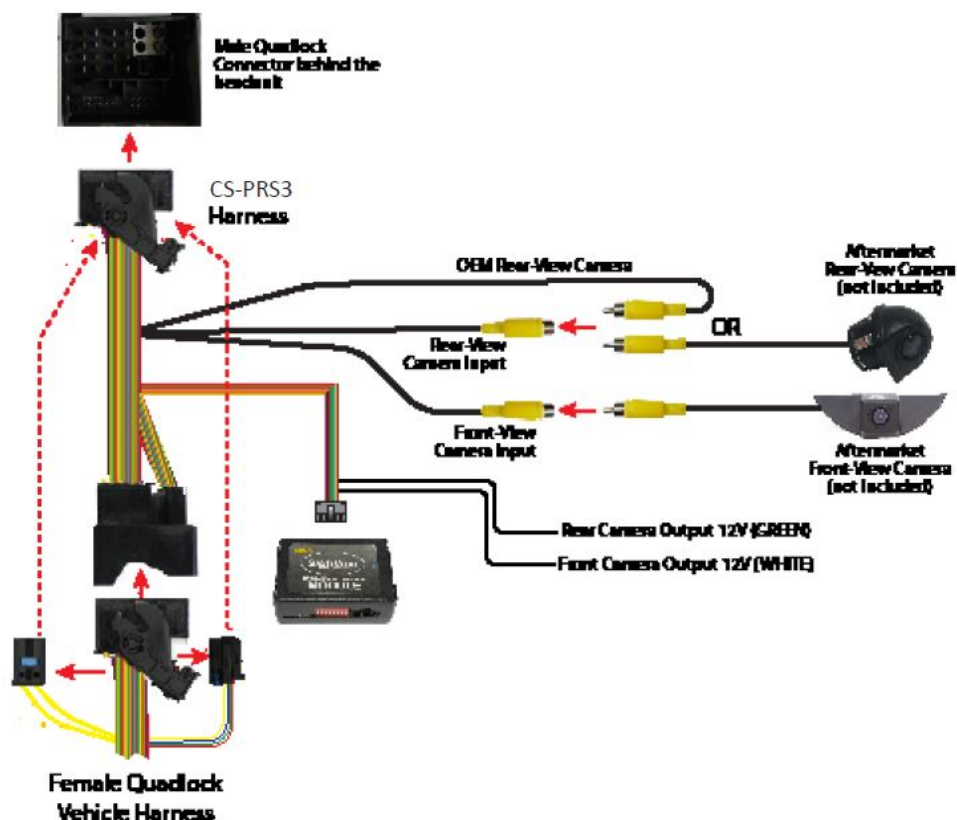- Plug & Play Installation.

Parts Included

CS-PRS3 Module

CS-PRS3 Harness

INSTALLATION GUIDE

Male Quadlock Connector behind the headunit

CS-PRS3 Harness

OEM Rear-View Camera

Aftermarket Rear-View Camera (not included)

Rear-View Camera Input

OR

Front-View Camera Input

Aftermarket Front-View Camera (not included)

Rear Camera Output 12V (GREEN)

Front Camera Output 12V (WHITE)

Female Quadlock Vehicle Harness

Rear & Front View Integration Interface for Porsche Vehicles with PCM 3 & 3.1 Navigation Systems

Dip SWTCH SETTINGS

Navigation System	DIP 1	DIP2	DIP3	DIP4	DIP5	DIP6
PCM3	OFF	ON	OFF	OFF	OFF	OFF
PCM3.1	OFF	ON	OFF	OFF	OFF	ON

DIP SWITCH FUNCTIONS:

- DIP 1 = Chart Above
- DIP 2 = ON for Aftermarket Rear View Camera / OFF for OEM Rear View Camera
- DIP 3 = Rear View Camera Coding.
- DIP 4 = ParkAssist Coding for PCM3.1 systems only (see page 4)
- DIP 5 = Camera/ParkAssist Coding .
- DIP 6 = CAN Bus Termination.

INSTALLATION INSTRUCTIONS

The interface module is installed behind the headunit

CONNECTING THE INTEFACE MODULE

1. Remove the headunit.
2. Connect the female 12-Pin Molex connector of the CS-PRS3 T-harness to the interface module.
3. Unplug the female Quadlock connector from behind the headunit and plug it into the CS-PRS3 T-harness.
4. Plug the male Quadlock of the CS-PRS3 T-harness to the headunit.

CONNECTING THE FACTORY REAR VIEW CAMERA Compatible with NTSC cameras only

If the OEM rear-view camera will be used, plug in the male RCA labeled "OEM Rear-View Camera" to the female RCAlabeled "Rear-View Camera".

CONNECTING THE AFTERMARKET CAMERAS Compatible with NTSC cameras only

- If using an aftermarket rear-view camera, install the aftermarket camera behind the vehicle and run the cable towards theradio.
- Plug in the male RCA of the aftermarket rear-view camer to the female RCA labeled Rear View Camera.
- Connect the GREEN wire on the T-harness to the 12V power wire of the aftermarket camera.
- The GREEN wire will provide12 volts power to the camera when the reverse gear is engaged.
- Power will deactivate automatically when the gear is setto drive and speed reaches to 12 MPH.
- If an aftermarket front-view camera will be used, install the camera per manufacturer's installation instructions and runthe extension cable towards the radio.
- Plug in the male RCA of the aftermarket rear-view camer to the female RCA labeled Front View Camera.
- Connect the WHITE wire on the T harness to the 12V power wire of the aftermarket camera.
- The WHITE wire will provide12 volts power to the camera when the gear is set to drive. Power will deactivate automatically when the speed reaches12 MPH.

CODING THE RADIO FOR CAMERA FUNCTION

PCM3 1Systems

It is necessary to code the rear-view camera input of the PCM3.1 system for use with an aftermarket rear view camera.

Left side Steering Wheel Buttons

Right side Steering Wheel Buttons

1. Turn ignition to ON.
2. Wait until the headunit has completely booted and is in the home screen.
3. Make sure that the LEDs on the interface module is visible during this process. The LEDs are inside the module and are visible through the side of the male 8-pin Molex connector.
4. Please observe the proper coding sequence
   1. First press and hold the HASH KEY/MODE then press and hold the PICK UP button.
   2. Continue to hold both buttons and check if the RED and BLUE LEDs are blinking.
   3. The PCM system will reset after 5-10 seconds
5. Release both buttons.
6. The RED and BLUE LEDs will light up solid.
7. Rear View Camera will show on the radio menu option after a successful coding.

To decode the aftermarket rear view camera from the syste follow the steps below

1. Turn ignition to ON.
2. Wait until the headunit has completely booted and is in the home screen.
3. Make sure that the LEDs on the interface module is visible during this process.
4. The LEDs are inside the module and are visible through the side of the male 8 pin Molex connector.
5. Please observe the proper decoding sequence: First press and hold the HASH KEY/MODE button then press and hold the HANG UP button.
6. Continue to hold both buttons and check if the RED and BLUE LEDs are blinking. The PCM system will reset after 5-10 seconds.
7. Release both buttons.
8. The RED and BLUE LEDs will light up solid.
9. Rear View Camera will no longer show on the radio menu option after a successful decoding.

CODING THE RADIO FOR PARKASSISTANT FUNCTION

PCM3 1 Systems

It is necessary to code the ParkAssist of the PCM3.1 system to retrofit the factory PDC.

Left side Steering Wheel Buttons

Right side Steering Wheel Buttons

1. Turn ignition to ON.
2. Wait until the headunit has completely booted and is in the home screen.
3. Make sure that the LEDs on the interface module is visible during this process.
4. The LEDs are inside the module and are visible through the side of the male 8-pin Molex connector.
5. Please observe the proper coding sequence.
6. First press and hold the BACK button then press and hold the PICK UP button.
7. Continue to hold both buttons and check if the RED and BLUE LEDs are blinking.
8. The PCM system will reset after 5-10 seconds.
9. Release both buttons.
10. The RED and BLUE LEDs will light up solid.
11. ParkAssist" will show on the radio menu option after a successful coding.

To decode the ParkAssist from the system, follow the steps below.

1. Turn ignition to ON
2. Wait until the headunit has completely booted and is in the home screen.

3. Make sure that the LEDs on the interface module is visible during this process. The LEDs are inside the module and are visible through the side of the male 8-pin Molex connector.

4. Please observe the proper decoding sequence: First press and hold the BACK button then press and hold the HANG UP button. Continue to hold both buttons and check if the RED and BLUE LEDs are blinking. The PCM system will reset after 5-10 seconds.

5. Release both buttons.

6. The RED and BLUE LEDs will light up solid.

7. ParkAssist will no longer show on the radio menu option after a successful decoding.

CODING THE RADIO FOR VEHICLES WITHOUT STEERING WHEEL CONTROLS

PCM3.1 Systems

It is possible to code and decode the radio for an aftermarket rear-view camera and ParkAssist functions on vehicles without steering wheel controls. This is done using DIP switch #3, #4 and #5.

DIP#	FUNCTION	ON	OFF
3	Rear-View Camera	Coding	Decoding
4	ParkAssist	Coding	Decoding
5	Activation of Coding/Decoding Process	5sec=Start	Default setting

1. Set DIP #5 to OFF.

2. Turn ignition to ON.

3. Wait until the headunit has completely booted and is in the home screen.

4. Make sure that the LEDs on the interface module is visible during this process.

5. The LEDs are inside the module and are visible through the side of the male 8 pin Molex connector.

6. Set DIP #3 and DIP #4 to the desired function coding or decoding.

7. Set DIP #5 to the ON position for 5 seconds.

8. During configuration, check if the RED and BLUE LEDs are blinking.

9. The PCM system will reset after 5-10 seconds.

10. The RED and BLUE LEDs will light up solid.

11. Rear View Camera and/or ParkAssist" will show on the radio menu option after a successful coding.

NOTES

1. After a coding or decoding process, wait for 60 seconds before another coding or decoding process can be made.

2. If there is a existing factory PDC in the vehicle, set DIP #4 to the ON position while coding otherwise the factory PCD will be decoded.

CONINGTHE RADIO EOR REARVIEW CAMERA ON PORSCHE CAYENNE WNITH PCM3 SYSTEM

DIP#	FUNCTION	ON	OFF
3	Rear-View Camera	Coding	Decoding
5	ParkAssist	Coding	Decoding

1. Set DIP #5 to OFF.
2. Turn ignition to ON.
3. Wait until the headunit has completely booted and is in the home screen.
4. Make sure that the LEDs on the interface module is visible during this process.
5. The LEDs are inside the module and are visible through the side of the male 8-pin Molex connector.
6. Set DIP #3 to the desired function coding or decoding.
7. Set DIP #5 to the ON position for 5 seconds.
8. During configuration, check if the RED and BLUE LEDs are blinking. The PCM system will reset after 5-10 seconds.
9. The RED and BLUE LEDs will light up solid.
10. Rear View Camera will show on the radio menu option after a successful coding.

NOTE
After a coding or decoding process, wait for 60 seconds before another coding or decoding process can be made.

LED INFORMATION

LED	STATUS	DESCRIPTION
Blue	Solid Light	CAN Bus Communication OK
	Flashing	CAN Bus Search
Red	Solid Light	Rear View Camera is Coded
	Flashing	RearView Camera is Decoded

MANUAL ACTIVATION OF FRONT CAMERA

Press the HANG UP button on the steering wheel control for 3 seconds to manualy activate or deactivate the front

camera ANG UP button on the steering wheel control for 3 seconds to manualy activate or deactivate the front camera.

VEHICLE APPLICATIONS

Porsche

- 2014 – 2016 Macan
- 2014 – 2016 911 GT3
- 2013 – 2016 911
- 2014 – 2016 Boxster
- 2009 – 2016 Cayenne
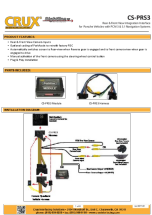- 2014 – 2016 Cayman
- 2010 – 2016 Panamera

Note

1. Not compatible with vehicles with manual transmission.
2. PCM software version MUST be 4.xx or higher.
3. Video in Motion feature does not work on the internal DVD video player
4. If camera is coded and reverse camera image does not trigger please make sure all doors, hood, is closed and parking brake is disengaged.

Compatible Navigation Systems

- PCM 3.1
- PCM 3 for Cayenne Only

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Documents / Resources

CRUX CS-PRS3 Integration Interface [pdf] Instructions
CS-PRS3, Integration Interface, CS-PRS3 Integration Interface, Interface