

NAV-TV

INTERFACING THE FUTURE

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UCT-PRG

Chrysler/Jeep Rear Camera Interface
NTV-KIT511



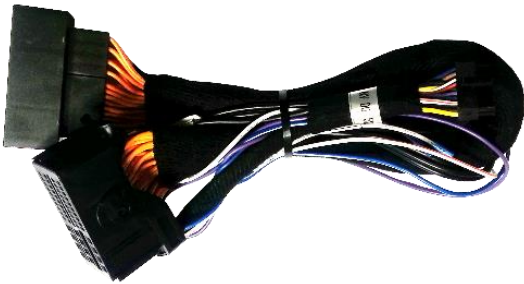
Compatible with 2014+ Jeep Cherokee
& 2015 Chrysler 200



Overview

The UCT-PRG is a plug & play solution for interfacing an aftermarket rear camera into select Chrysler and Jeep vehicles. All connections are made behind the factory radio/screen.

Kit Contents



Plug & Play T-harness
NTV-HAR246



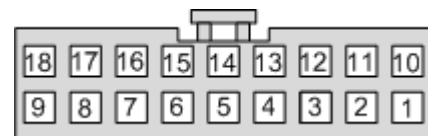
UCT-PRG Module
NTV-ASY166



USB Cable (updates)
NTV-CAB009

UCT-PRG pin out

PIN #	Description	Color
1	12v (+) Constant	Yellow
2	Input 1 (N/A)	Red
3	Input 2 (N/A)	Blue
4	Input 3 (<i>manual radio reset*</i>)	Pink
6	RCA MALE	--
7	RCA Shield	--
8	CAN HI (Radio Side)	White/Brown
9	CAN HI (Car Side)	White/Blue
10	Ground (-)	Black
11	Output 1 (12v ACC out)	White/Red
12	Output 2 (12v Reverse out)	Blue/White
15	RCA Female (Normally Open)	--
16	RCA Female (Normally Closed)	--
17	CAN LO (Radio Side)	Brown
18	CAN LO (Car Side)	Blue



Wire Side

All existing wires not mentioned here are NOT used for this installation.

**Use this wire ONLY if the radio does not reset during programming.*

Agreement: End user agrees to use this product in compliance with all State and Federal laws. NAV-TV Corp. would not be held liable for misuse of its product. If you do not agree, please discontinue use immediately and return product to place of purchase. This product is intended for off-road use and passenger entertainment only.

Radio Removal ('14 Cherokee, 5" screen)

*Radio removal for other vehicles will be very similar.

1. Begin by removing the climate control panel with a plastic tool.
2. Disconnect the climate control harness and set the climate control aside.



3. Next remove (2x) Phillips head screws that secure the radio fascia to the sub dash:



4. Pull the vent shroud towards you after removing the two bottom screws. It is now held in by clips only:



5. Remove (4x) Phillips head screws and pull the radio straight out of the dash. Disconnect all harnesses and set the radio aside.

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UCT-PRG Installation / programming

1. **Verify the key is in the OFF position (or not inserted) until step 6.**
2. After removing the factory radio, gather the **Plug & Play T-harness** and connect the female side to the factory 44-pin plug. Make certain the lock connects together securely.
3. After installing a rear camera, connect the signal RCA to the *yellow RCA* on the *male side (side going into monitor)* of the Plug & Play T-harness. The other side of the *yellow RCA* can be left disconnected. ****If the harness is shipped with the Audio (red & black) RCA's disconnected, be sure to plug the audio RCAs together. If left disconnected, the factory AUX audio jack will not pass through.***
4. Connect the UCT-PRG module to the 18-pin connector found in the Plug & Play T-harness.
5. Connect the radio to the male side of the **Plug & Play T-harness**. Reconnect all other plugs to the radio (see diagram on page 5).



6. Turn the key to the **ON** position (don't start vehicle).
7. The radio will turn on, and restart itself within 1 minute.
8. Re-cycle the ignition one time (key/push button to **OFF** then back again to **ON***). Wait for the radio to boot and settle. **Note: If push button ignition, be certain the ignition is ON, not just ACC (may require 2 presses).*
9. **Cycle the ignition (off to ON) 3 times (1 cycle/sec). Verify the odometer is not flashing.**
10. If programming of the radio took successfully, the camera image (or blue screen) will display on screen while in reverse.

Proper LED flashing indication: 1st Key cycle: 4 flashes
2nd and every following key cycle: 6 flashes

Below is a chart referencing LED flashes which can be found on the side of the UCT-PRG module. Refer here for troubleshooting.

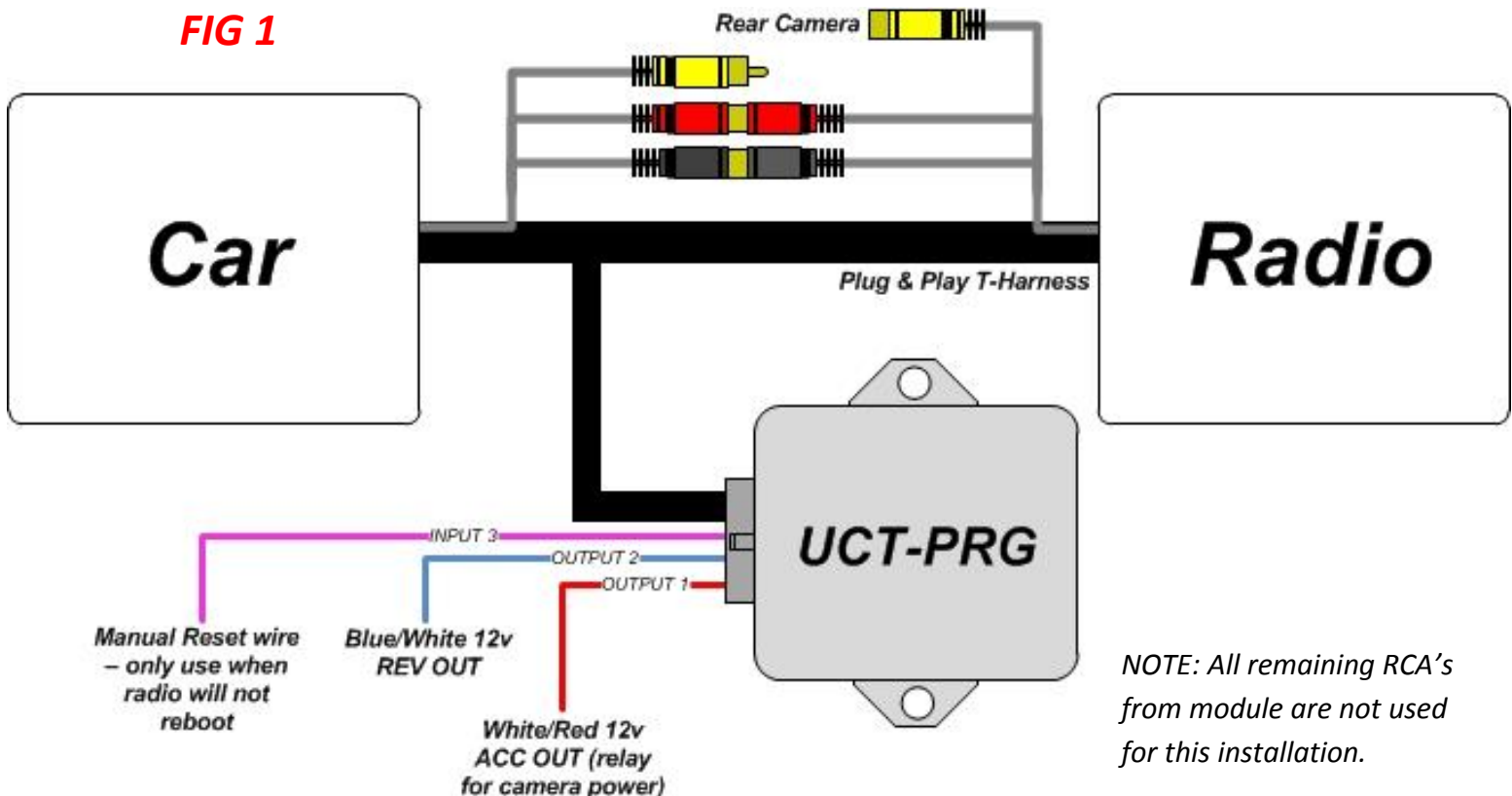
LED Response	Description
1 flash	Waiting for Ignition... (Turn ignition to ON)
3 flashes	VIN Mismatch (This module has been used in a different vehicle already)
4 flashes	First time programmed (Recycle ignition, then test for proper operation)
6 flashes	Programming complete (The radio has accepted the program)

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IMPORTANT NOTES:

- **Proper LED flashing indication:**
 - 1st Key cycle: 4 flashes
 - Every following key cycle: 6 flashes
- **This module locks to the vehicle's VIN and can only be used to program a reverse camera on ONE vehicle at a time.**
- **This module must remain in line (T-Harness) to this vehicle at all times. If this kit is ever removed, the cluster will flash an error and the vehicle's system will need to be re-aligned from a dealer. NAV-TV is not responsible for incurred dealer fees due to installation negligence!**
- **There is no way to de-program this module. Once programmed, this kit must remain in the vehicle forever! (The module will not work on another vehicle after it has been programmed once!)**
- **If the RADIO requires a software update from the dealer, the entire UCT-PRG kit must be removed first! If this kit is not removed, any attempt at updating the radio will fail (no other module updates are relevant).**

Installation Diagram



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UCT-PRG Operation

- Once installed, no user interaction is necessary. Any time the vehicle is placed into reverse, the rear-camera image will appear on screen.
- **Note: Reverse image may stay on for a period of time after the transmission of the vehicle is removed from reverse – this is a factory feature and is adjustable via the UConnect Settings Menu*.**

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WARNING! (Continued)

- Before using the ParkSense® Active Park Assist system, it is strongly recommended that the ball mount and hitch ball assembly is disconnected from the vehicle when the vehicle is not used for towing. Failure to do so can result in injury or damage to vehicles or obstacles because the hitch ball will be much closer to the obstacle than the rear fascia when the loudspeaker sounds the continuous tone. Also, the sensors could detect the ball mount and hitch ball assembly, depending on its size and shape, giving a false indication that an obstacle is behind the vehicle.

PARKVIEW® REAR BACK UP CAMERA – IF EQUIPPED

Your vehicle may be equipped with the ParkView® Rear Back Up Camera that allows you to see an on-screen image of the rear surroundings of your vehicle whenever the shift lever is put into REVERSE. The image will be displayed in the touchscreen display along with a caution note to “check entire surroundings” across the top of the screen. After five seconds this note will disappear. The ParkView® camera is located on the rear of the vehicle above the rear License plate.

NOTE: The ParkView® Rear Back Up Camera has programmable modes of operation that may be selected through the Uconnect® System. Refer to “Uconnect® Settings” in “Understanding Your Instrument Panel” for further information.

When the vehicle is shifted out of REVERSE (with camera delay turned OFF), the rear camera mode is exited and

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the navigation or audio screen appears again. When the vehicle is shifted out of REVERSE (with camera delay turned ON), the camera image will continue to be displayed for up to 10 seconds after shifting out of REVERSE unless the vehicle speed exceeds 8 mph (13 km/h), the vehicle is shifted into PARK or the vehicles ignition is cycled to the OFF position.

When enabled, active guide lines are overlaid on the image to illustrate the width of the vehicle and its projected backup path based on the steering wheel position. A dashed center line overlay indicates the center of the vehicle to assist with parking or aligning to a hitch/receiver.

When enabled, fixed guide lines are overlaid on the image to illustrate the width of the vehicle.

***While the OEM UConnect manual states that there are options for guidelines (active and static), these will not be available with the UCT-PRG. These lines are generated by an OEM camera and cannot be emulated with an aftermarket camera!**