

UCTv2

Dodge/Jeep uConnect (RA3/RA4) Dual Camera Interface NTV-KIT762





BHM 06/04/18 NTV-DOC264

Overview

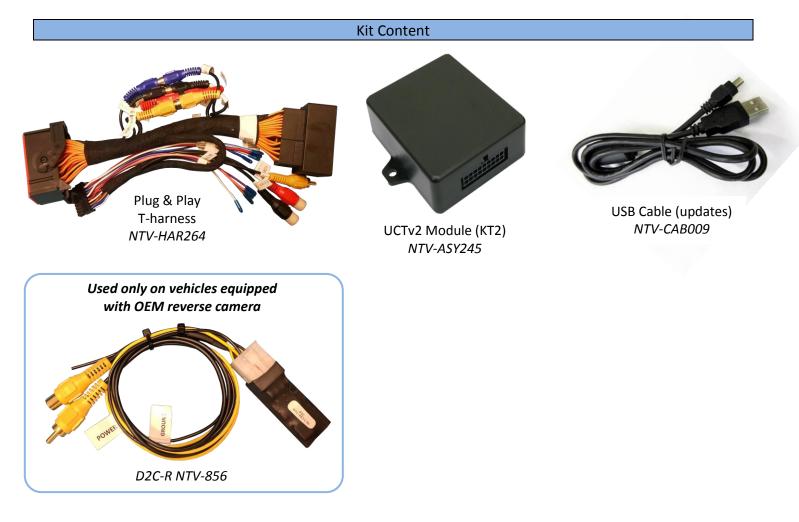
The *UCTv2* series Interface integrates multiple video inputs to the factory 8.4" touch screen in compatible 2013+ Dodge and Jeep vehicles, with additional expansion options for future upgrades.

UCTv2 (KIT762): Add up to 2 additional inputs (or 1 while retaining OEM tailgate camera).

UCTv2+ (KIT763): Same functionality as the standard system, but includes an AVSW for audio integration (AV input).

UCTv2 MULTI-CAM (KIT764): Same functionality as the standard system, but includes a data-controlled **SVS-6** switcher capable of adding 6 additional video inputs all while retaining any existing OEM cameras.

NOTE: The UCTv2 MULTI-CAM kit is **required** for RAMs that have an <u>OEM</u> Cargo Camera or to emulate the Cargo Camera menu.





*Not supported on all vehicle models.

Dash Disassembly (basic RAM)

1. Remove the Torx t20 screw at the right rear of the pocket on the right side of the dash.



2. Remove (2x) Torx t20 at the top of the dash. They are hidden beneath a rubber mat.



3. The face should be free now, pull straight outwards (towards you) with medium force. Use plastic panel tools if necessary.

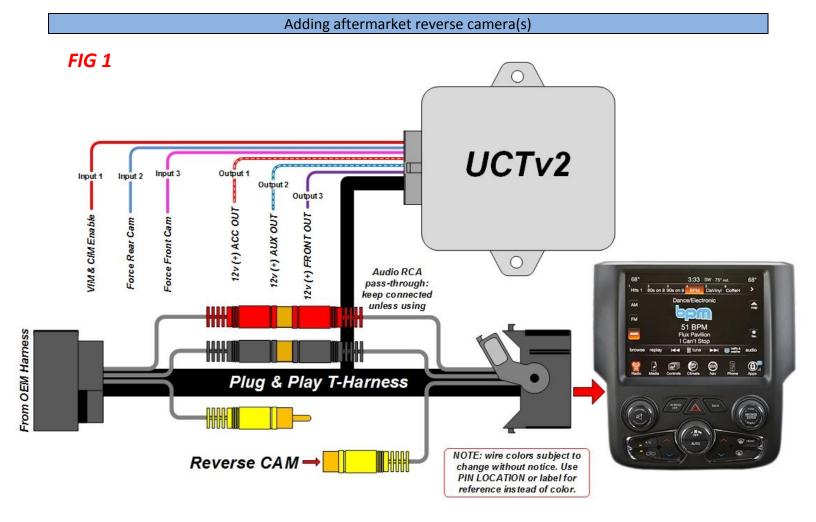
4. Remove (4x) 7mm screws that secure the LCD touchscreen.

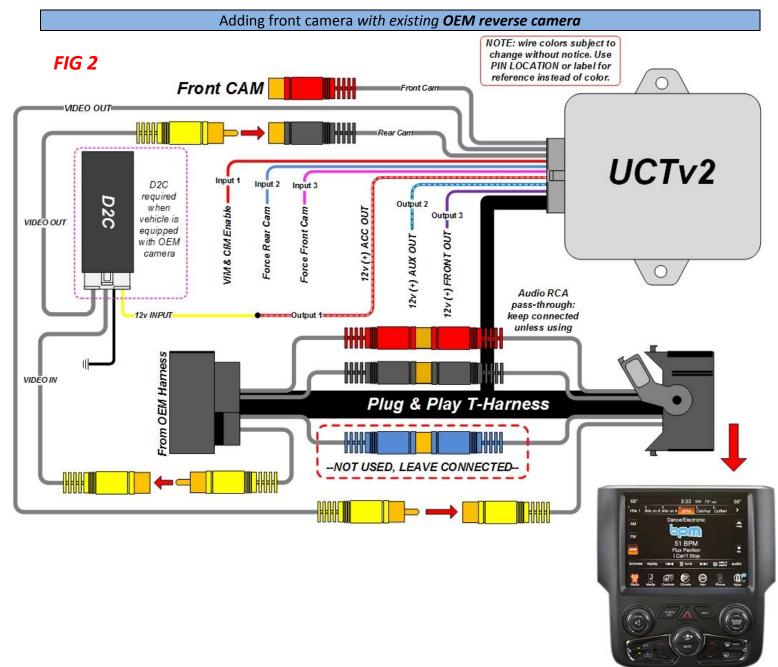




UCTv2 Module Installation

- 1. After removing the factory radio, grab the provided *Plug & Play T-harness* and connect the female side to the factory 44-pin plug. Make certain the lock connects together securely.
- 2. Install camera(s) and run signal/power leads into the front dash opening. *Note:* 12v ACC is provided from *output* 1 (PIN 11, white/red). *If connecting any camera (s) which draw 1amp or more, trigger a relay with this output instead powering directly!*
- 3. Make required connections as shown below in *FIG 1*, *for vehicles without an OEM camera*. If this vehicle has an OEM reverse camera, connect the RCA's among the Plug & Play T-Harness like shown in *FIG 2 (page 6) for vehicles equipped with an OEM reverse camera, the provided D2C module must be used as shown*.
- 4. Connect the male side of the *Plug & Play T-Harness* to the main radio display. Proceed to page 5 for programming.





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UCTv2 Programming

Programming the UCTv2 is performed in the vehicle, through the factory dash MUTE button, TUNING KNOB, and CLUSTER LCD for feedback.



- Before attempting to program, after making connections, let the vehicle perform a CAN-reset: Close all doors/trunk/hood, lock the vehicle and waiting 10 minutes before proceeding to program.
- 2. Turn the vehicle's ignition on. Be certain you're resting in *FM mode* (see an FM station frequency on the cluster), otherwise the cluster information may not display.



To show the FM source on the *cluster*, first clear any messages shown (door status, etc) with the UP or DOWN arrows on the steering wheel. Press the audio source button until 'FM' is displayed.



- 3. Close all doors (door status may override NAV-TV settings cluster feedback).
- 4. View the chart on the next page for settings descriptions and the diagram above to begin programming.
- 5. NAV-TV programming mode will time out (back to factory) after 15 seconds. Scroll to the end of the settings menu and select **'EXIT'** to exit and save settings.

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UCTv2 Programming Parameters (OEM Cluster)

Parameter	Adjustment	Description
(cluster)	Options	
NAV-TV	TUNE-Next Item /	Rotate TUNE knob to access different menus, press knob
Settings	Enter Change	inwards to enter/change setting
GEAR	AUTO / STICK	 AUTO: Select this option if the vehicle has an automatic transmission STICK: Select this option if the vehicle has a manual transmission
SWITCH	RELAY / AVSW / SVS-6	RELAY: Uses RCA inputs on the UCTv2 module itself (UCTv2) AVSW: Select when using AVSW board (UCTv2+) SVS-6: Select when using SVS-6 switcher (UCTv2 MULTI-CAM)
	OEM /	OEM: Vehicle has a manufacturer-installed reverse camera.
RVC	AFTERMARKET /	AFTERMARKET: Any aftermarket reverse camera.
	OFF	OFF: Choose if not adding a reverse tailgate camera.
F. RVC	OFF / ON	ON: Enables option of forcing rear view camera.*
FRONT CAM	OFF / ON / <8	ON: Enables option of installed front camera. <8: Front camera will display between 1-8 MPH.
AUX VID TURN SIGNALS	AVAILABLE WITH ADDITIONAL HARDWARE. See NTV-KIT763 (UCTv2 +) or KIT764 (UCTv2 MULTI-CAM)	
Cargo CAM**		
INPUT3		
EXIT		
	The SWITCH ye	
	determi	nes which ANY

*Factory Rear camera is controlled via LIN. Forced OEM RVC is not supported with the UCTv2.

confusion.

options will display on

the cluster, to reduce

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Programming for 2016-2017 Vehicles equipped with Panasonic Radios (CarPlay/Android Auto)

- For 2016-2017 vehicles equipped with the new *Panasonic* radio, the method for programming rearcamera has changed and requires additional steps. Follow the procedure below for these applications:
- 1. After Installing the kit and adjusting the menu for desired options, shut down the vehicle with the key (or push button).
- 2. Disconnect the *vehicle-side* of the supplied T-Harness for 5 seconds, then reconnect it.
- 3. Turn the vehicle on (to ignition, beyond accessory), wait **1 minute**.
- 4. Turn the vehicle off again. *Wait for LED on module to go out.* Wait for 30 more seconds.
- 5. Turn the vehicle on (to ignition, beyond accessory), wait for the radio to fully boot. Wait for 30 more seconds.
- 6. Turn the vehicle off again. *Wait for LED on module to go out.* Wait for 30 more seconds.
- 7. Turn the vehicle on once more and the camera should be programmed and functioning properly.

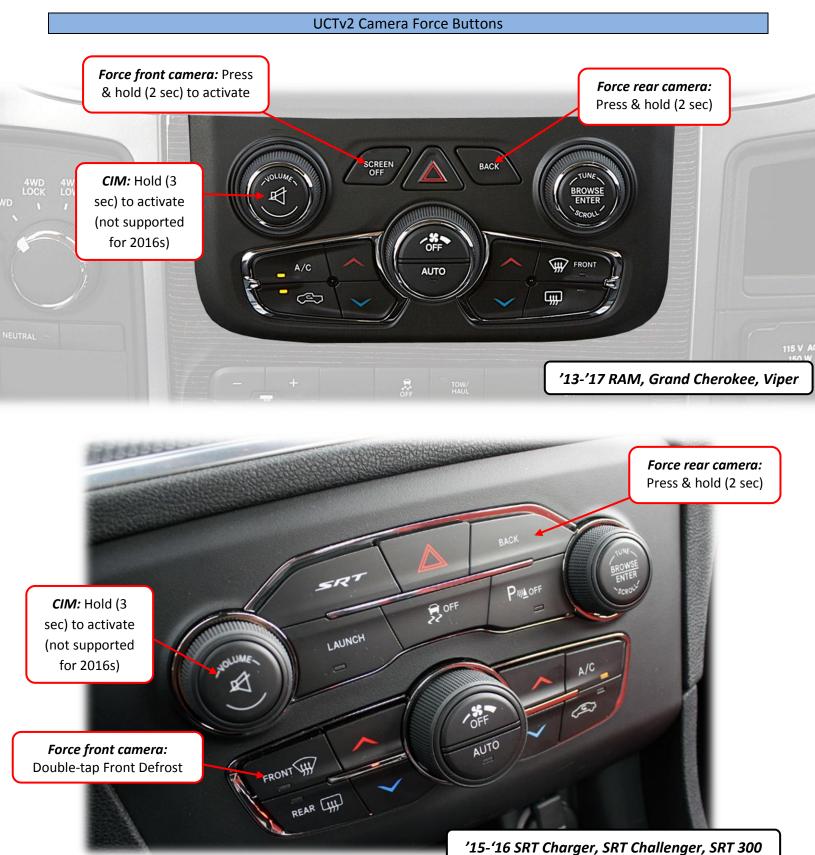
For further information on this process and video reference, see our YouTube video here:

https://www.youtube.com/watch?v=XOtkOUCLXik

Programming for 2018 vehicles equipped with Panasonic Radios (CarPlay/Android Auto)

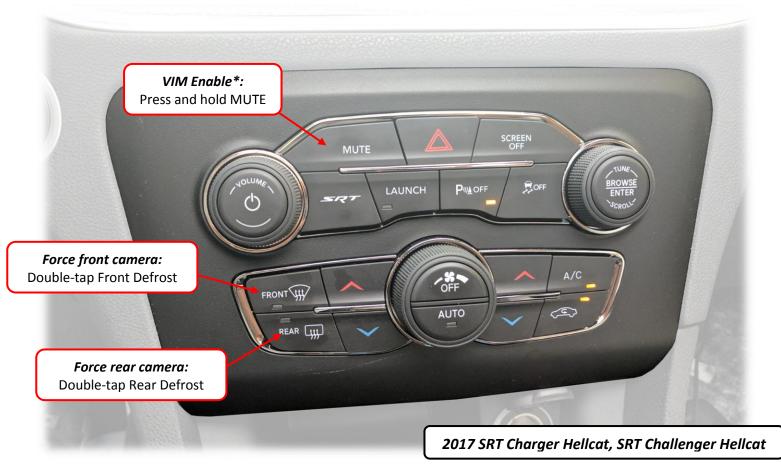
- For 2018 vehicles, the mandatory reset procedure is simpler (than 16-17). Follow the steps below for 2018 (after all connections have been made):
- 1. Turn vehicle on
- 2. Wait for radio to fully boot (radio playing, volume adjust is accessible). Wait an additional 30 seconds
- 3. Shut down vehicle with key.
- 4. With key off and radio down, wait until OE splash screen shows once more (then goes out).
- 5. Start vehicle and test for proper operation.

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UCTv2 Camera Force Buttons (continued)

• For some 2017 SRT vehicles, the radio has changed and is clearly indicative by the radio control buttons or the GUI on the touch panel. For these vehicles, use the following buttons to force video sources:



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UCTv2 Operation Information

Rear Camera Operation: Placing the vehicle in to reverse will automatically display any connected camera. This image will take precedence over all other images. Force Rear Camera: To force rear camera, press and hold radio 'BACK' button for 2 seconds. To exit forced rear camera, press and release radio 'BACK' button. Note: forced rear camera is only supported on aftermarket cameras.

Force Front Camera: To force front camera, press and hold radio 'SCREEN OFF' button for 2 seconds (truck chassis) or 'FRONT DEFROST' (car chassis). To exit Front Cam mode, press and release the 'BACK' button.

 If using AUX video mode for an A/V source, the red & black RCAs located on the Plug & Play T-Harness must be opened up with an AVSW (KIT763 includes AVSW, or it can be ordered separately as NTV-KIT224).

Activate CIM (Control in Motion): To activate CIM for factory navigation, press and hold the 'Volume' button for 3 seconds (CIM will disable automatically after 3 minutes). This function will also keep the Cargo Camera enabled for 3 minutes, and will reset upon every key cycle.

NOTE: Activating the CIM function will NOT bypass video in motion at this time, if equipped.







2 seconds

FAQs

Q1. I can't get into programming mode.

A1. Turn off the vehicle and remove the key. Close all points of entry and use the remote to lock the vehicle. Wait approx. 5 minutes without opening or disturbing the vehicle. Unlock and cycle the ignition to the 'RUN' position. *Make certain that the cluster is in FM radio mode before you begin programming;* and no errors are displayed (door open, etc), otherwise the cluster information might not display. Hold down the "MUTE" button until you see the display options post on the cluster.

Q2. When I try to force (front, rear) camera, nothing happens.

A2. Make certain you've enabled the options you want to use in the NAVTV settings mode and that you scrolled to the end *and selected 'EXIT' (or it will not save)*.

Q3. I hear no audio when my auxiliary source is playing on screen.

A3. Verify that the audio RCAs are connected properly to the AVSW.

Q4. Everything works properly, but when an audio source is connected to the 3.5mm audio jack, there's no audio.

A4. Make sure the audio RCAs are connected together on the Plug & Play harness.

Q5. When I place the vehicle into reverse, I get a black or blue screen.

A5. Make sure the camera is getting sufficient power and the RCA is connected to the proper yellow RCA on the 24-pin harness.

Q6. The camera image is displayed properly when the vehicle is in reverse, but there's only a black or blue screen when the camera is forced.

A6. Make sure the camera power is not connected to the reverse lamps. Camera power needs to be connected to an accessory wire (cigarette lighter). If the camera is OEM, forcing it to display in any gear is *not* supported.

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