

Dual Camera Interface for Chrysler, Dodge, Jeep (Kit # 9002-2783 v2)

Please read thoroughly before starting installation and check that kit contents are complete.

Items Included in the Kit:

Factory T-harness
9002-2783 v2 module
USB update cable
These instructions

Tools & Supplies Needed:

Wire cutters
Wire strippers
Zip ties
Electrical tape
Heat shrink
Torx t20
7mm socket
Plastic panel removal tools



Safety Precautions:

- Work in well ventilated area that is clear of obstructions.
- Secure vehicle with tire chucks in both front and rear of tires.
- Turn vehicle accessories OFF and ensure ignition key is in OFF position.
- Wear safety goggles and snug fitting clothes.
- Use tools only for their intended purpose and which are in good repair.
- Only perform this task if confidence, skill, and physical ability permit.

NOTE: We strive to provide accurate and up-to-date installation instructions. For the latest full color instructions, as well as an installation video, please visit www.brandmotion.com

INSTALLATION INSTRUCTIONS

INSTALLING:

1. Remove trim around screen/display.
2. Remove screws that hold screen to dash.

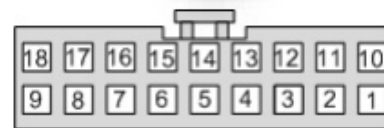


3. Disconnect main 52-pin harness from the back of the screen by lifting up on the "handle" to release the plug.
4. Plug in the main 52-pin factory harness that was just unplugged, into the female end of the T-harness.

5. Plug in the male 52-pin plug from the T-harness into the factory screen/display. Lock the plug in by pushing down on the "handle".
6. Connect the 24-pin plug on the T-harness to the 9002-2783 v2 module.
7. Connect the camera RCA to the yellow RCA on the 9002-2783 v2 T-harness. (NOTE: for adding single camera. If installing a secondary front camera, connect video signals like shown in FIGURE 2 on page 4.)
8. Connect the power for the camera to the white/red wire on the 9002-2783 v2 T-harness.
9. Close and lock all doors and leave ignition key out of the ignition for 5 minutes to allow the vehicle to perform a CAN reset.
10. Turn the ignition back on after 5 minutes and test the camera. Start the vehicle, press the parking brake and shift into reverse to see the image.
11. Reassemble the vehicle in reverse order. Take care not to pinch or bind any wires or cables.

9002-2783 v2 Pinout:

PIN #	Description	Color
1	12v (+) Constant	Yellow
2	INPUT 1 (CIM & VIM activation)	Red
3	INPUT 2 (Force Rear Camera)	Blue
4	INPUT 3 (Force Front Camera)	Pink
6	RCA MALE	--
7	RCA Shield	--
8	CAN HI (Radio Side)	Brown/White
9	CAN HI (Car Side)	Blue/White
10	Ground (-)	Black
11	OUTPUT 1 (Provides 12v (+) ACC)	White/Red
12	OUTPUT 2 (Provides <i>reverse</i> 12v (+))	Blue/White
13	OUTPUT 3 (Follows internal relay)	White/Purple
15	RCA Female (Normally Open)	--
16	RCA Female (Normally Closed)	--
17	CAN LO (Radio Side)	Brown
18	CAN LO (Car Side)	Blue



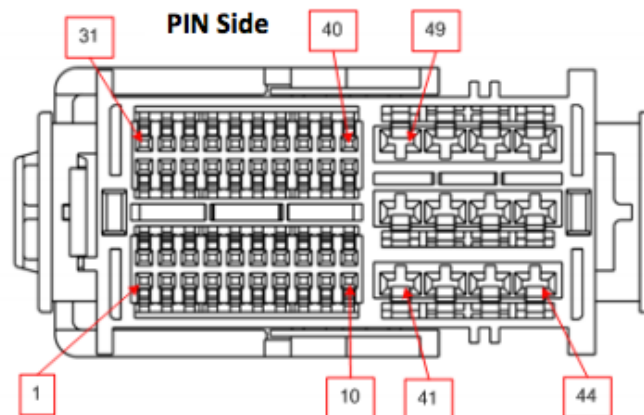
Wire Side

NOTE: Vehicles equipped with a monochrome screen are NOT full-color LCD screens and are NOT COMPATIBLE with the 9002- 2783v2

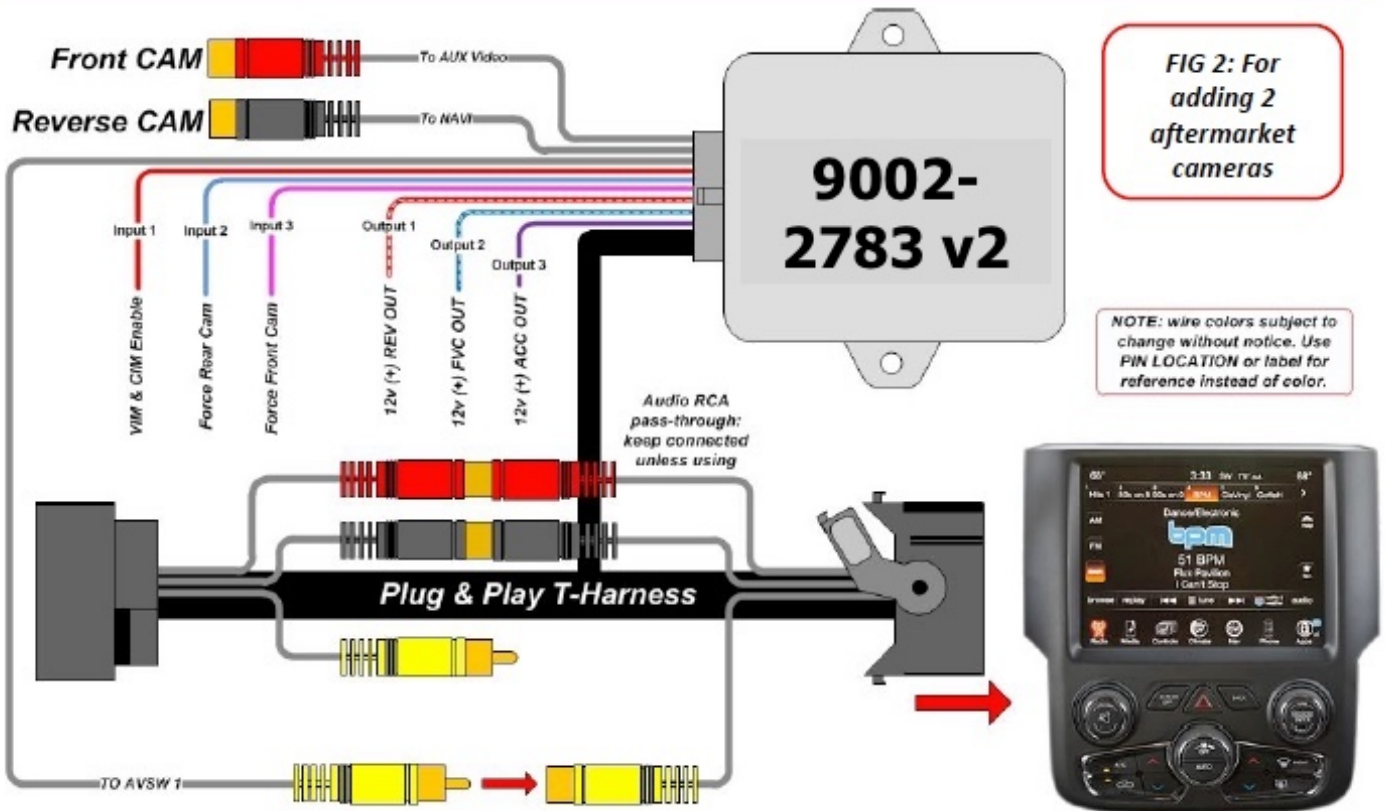
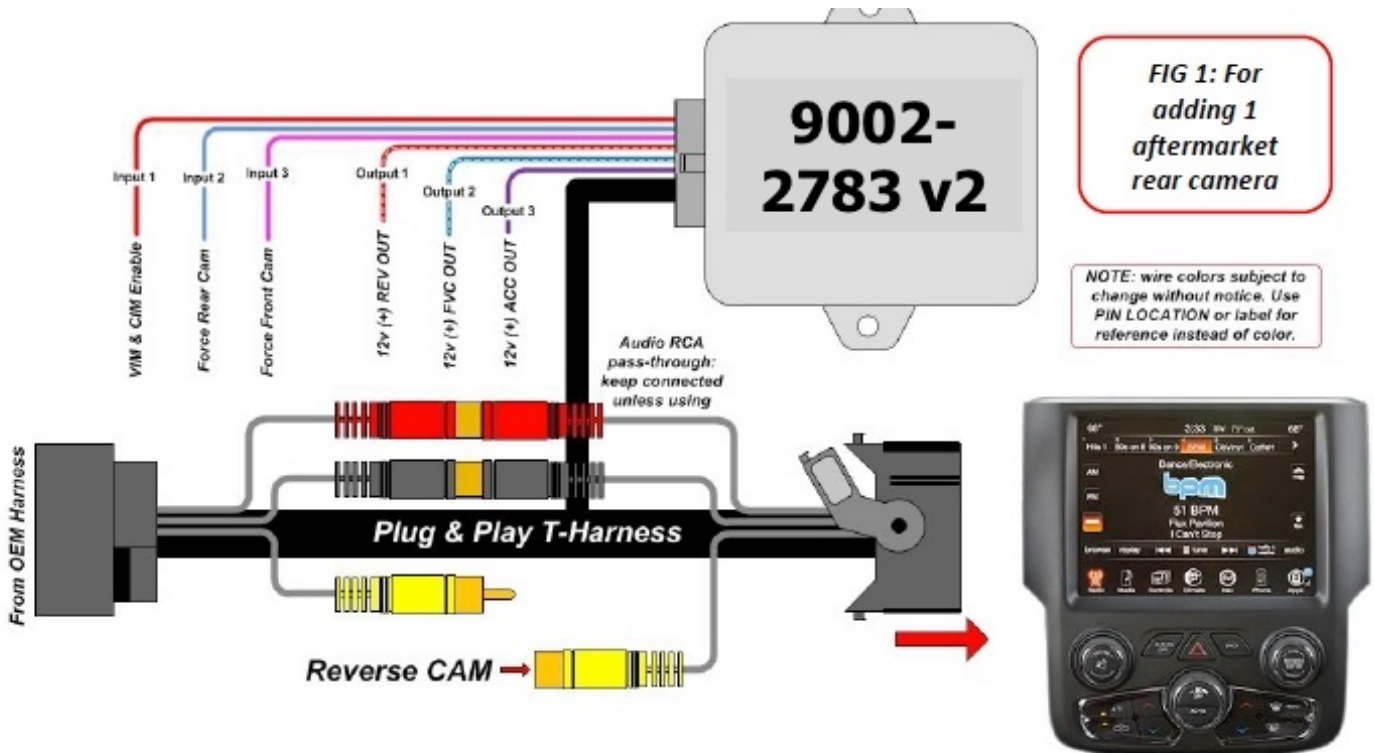


2013+ Dodge/Jeep radio LCD connector pinout:

Pin #	Description	Color
2	CAN HIGH	Dark Blue
12	CAN LOW	White
31	DIFF Video (+)	Green/Brown
32	DIFF Video (-)	Green/Orange
33	Shield	
43	Ground	Black
44	Constant 12v	Red



INSTALLATION DIAGRAMS:



OPERATION:



Placing the vehicle in REVERSE will automatically transition the screen to display the connected camera's image.

*Force rear camera: Press & hold (2 sec)
Or
Send 12v (through toggle) to INPUT 2 (Blue)*

CIM: Hold (3 sec) to activate (NAV-equipped radios only)

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: this function is NOT supported on vehicles equipped with a factory reverse camera.**

Additionally (or for 5" screens), sending 12v to INPUT 2 (Blue) through a toggle switch (not included) will force the rear camera in any gear, at any time.

Activate CIM (Control in Motion): To activate CIM for navigation-equipped vehicles, press and hold the 'Volume' button for 3 seconds (CIM will disable automatically after 3 minutes). **This function will reset upon every key cycle.**

Additionally, sending 12v to INPUT 1 (Red) through a toggle switch (not included) will activate CIM as well.

FAQ:

Q1. I hear no audio when my auxiliary source is playing.

A1. Verify that the audio RCAs are connected together in the Plug & Play T-Harness.

Q2. When I place the vehicle into reverse, I get a black/blue screen.

A2. Make sure the camera is getting sufficient power and the RCA is connected to the YELLOW RCA behind the screen, NOT to the RCA on the 9002-2783 v2.

Q3. The camera image is displayed properly when the vehicle is in reverse, but there's only a black/blue screen when the camera is forced.

A3. Make sure the camera power is not connected to the reverse lamps for power. Camera power needs to be connected to an accessory wire (cigarette lighter or OUTPUT 1).

Q4. When I force my OEM reverse camera, the image disappears after some time when traveling down the road.

A4. Forcing the factory camera is not supported with the 9002-2783 v2 as it is data-controlled. Aftermarket reverse cameras will stay on provided the camera is powered with ACC.

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