

## 2014-2015 Ram ProMaster City camera interface and camera (Kit # FLTW-7628)

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

### **Items Included in the Kit:**

Plug and Play T-Harness  
ProMaster City interface  
USB cable for updates  
Adjustable rear camera (mounts in factory location)  
  
Chassis harness  
Hole saw  
Gasket for camera to body  
Camera adjustment tool  
These instructions

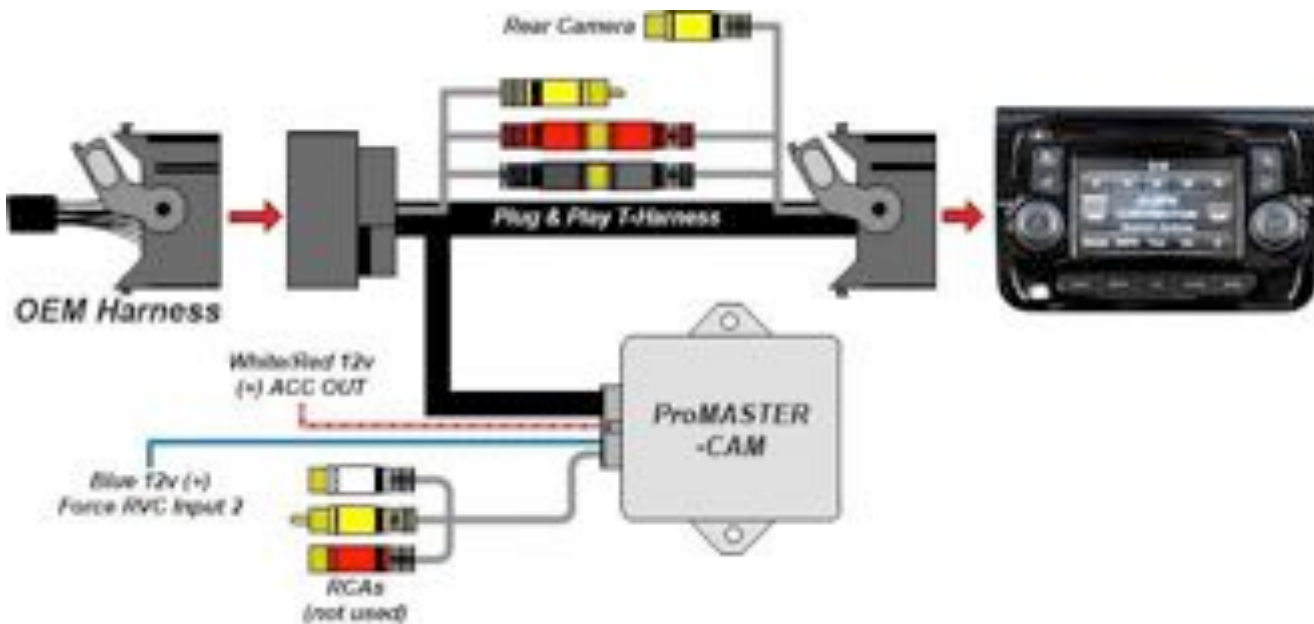
### **Tools & Supplies Needed:**

ProMaster City radio removal tools  
Phillips screwdriver  
Plastic panel removal tools  
Wire cutters  
Wire strippers  
Electrical tape  
Zip ties  
Drill

### **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](http://www.brandmotion.com)**



1. Remove radio using removal tools. (Can use Ford removal tools cut into 2 pieces.)
2. Close all doors (including rear doors) before beginning.
3. Make sure key is off and not inserted in ignition.

4. After removing the radio, connect the Plug and Play harness into the factory 44-pin male plug. Make sure the handle folds down and locks securely.
5. After the camera is installed in the rear door "bump out", run the interior harness through the vehicle and to the radio opening in the dash.



6. Connect the video RCA from the camera to the Rear Camera RCA on the T-harness.
7. Connect the red wire from the camera to the white/red strip wire for accessory power.
8. Ground the black wire from the camera to a good clean chassis ground.
9. Connect the FLTW-7628 module to the 18-pin connector on the Plug and Play T-harness.
10. Connect the male end of the Plug and Play T-harness in the back of the radio where the factory harness was just unplugged.
11. Turn the key to the ON position. **DO NOT START** the vehicle.
12. The radio will turn on, and restart itself within 1 minute.
13. After that turn the key off and then turn the key back on again.
14. Wait for the radio to boot and settle.
15. Turn the key **OFF** and **ON 3 times**. 1 cycles per second.
16. Verify the odometer is not flashing.
17. Put the vehicle into reverse.
18. If the screen goes blue (the camera not connected) or the camera image displays on the screen, the radio programming was successful.

19. Check the chart below for referencing what the flashes are for:

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

## **IMPORTANT NOTES:**

**Proper LED flashing indication:** ○ **1<sup>st</sup> 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!)**

Once installed, no user interaction is necessary. Any time the vehicle is placed into reverse, the rear- camera image will appear on screen.

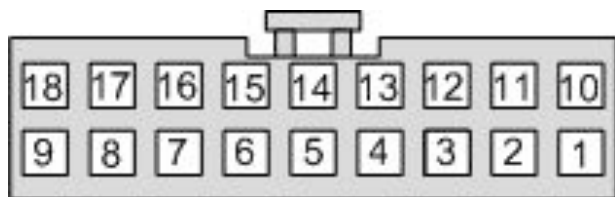
**Forced Rear Camera** (viewing camera image in any gear and any speed) can be activated by sending 12v (+) to **Input 2 (blue)** through a toggle (not included).

**Note: If a rear door is open while the ignition is on, the camera image will display on the screen (factory feature).**



PIN #	Description	Color
1	12v (+) Constant	Yellow
2	--Not Used--	Red
3	Input 2 <b>Force Rear Camera</b>	Blue
4	--Not Used--	Pink
6	RCA MALE	Yellow
7	RCA Shield	Black

8	CAN HI (Radio Side)	Brown/White
9	CAN HI (Car Side)	Blue/White
10	Ground (-)	Black
11	Output 1 <b>12v (+) ACC OUT</b>	White/Red
12	--Not Used--	Blue
	--Not Used--	--
15	RCA Female (Normally Open)	Red
16	RCA Female (Normally Closed)	White
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.***

Agreement: End user agrees to use this product in compliance with all State and Federal laws. Brandmotion. 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.