

# NAV-TV

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## ProMASTER-CAM ProMASTER-City PRG

'14+ Dodge ProMASTER and ProMASTER City Rear Camera Interface  
NTV-KIT590/606



BHM  
05/27/15  
NTV-DOC208

Overview

The ProMASTER-CAM is a plug & play solution for interfacing an aftermarket rear camera into the 2014+ Dodge ProMASTER and ProMASTER CITY. All connections are made behind the factory radio/screen.

Kit Contents



UCT-PRG pin out

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



**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. 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.

ProMASTER Radio Removal

1. Using classic Ford Radio removal tools (or similar method), insert fully into each (4x) hole and pry outwards to release the radio's retention clips. The radio will pop out of the dash if done properly.



ProMASTER



ProMASTER CITY

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ProMASTER-CAM Programming

1. **Close all doors (including rear doors) before beginning.**
2. **Verify the key is in the OFF position (and not inserted) until step 7.**
3. 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.
4. 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.***
5. Connect the ProMASTER module to the 18-pin connector found in the Plug & Play T-harness.
6. 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).



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

**Proper LED flashing indication: 1<sup>st</sup> Key cycle: 4 flashes  
2<sup>nd</sup> and every following key cycle: 6 flashes**

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

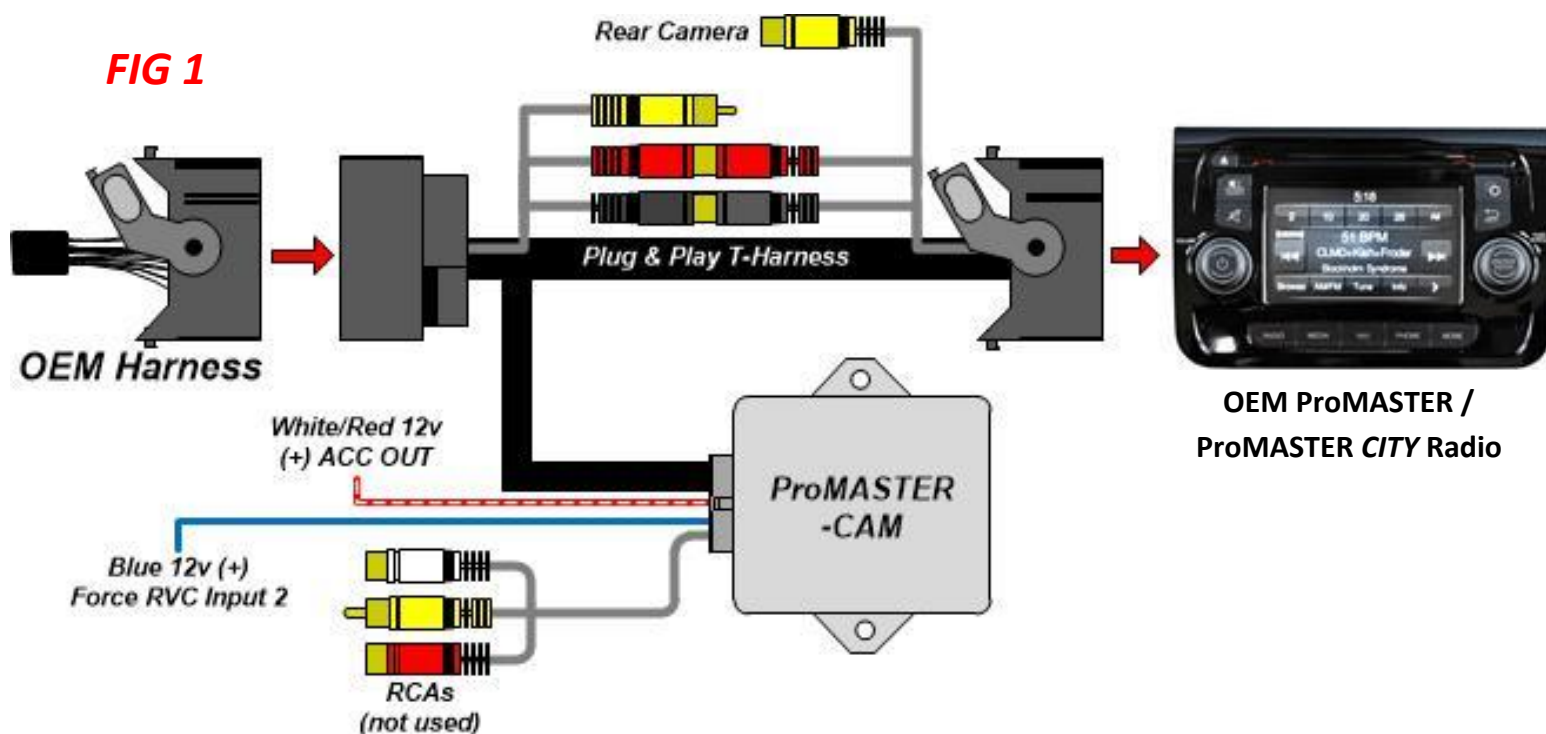
LED Response	Description
1 flash	<b>Waiting for Ignition...</b> (Turn ignition to ON)
3 flashes	<b>VIN Mismatch</b> (This module has been used in a different vehicle already)
4 flashes	<b>First time programmed</b> (Recycle ignition, then test for proper operation)
6 flashes	<b>Programming complete</b>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

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## 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!)**

### Installation Diagram



## ProMASTER-CAM Operation

- 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: Camera must be powered with an ACC source, NOT reverse lights for this operation.*

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

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