

# NAV-TV

INTERFACING THE FUTURE




100 NW 11<sup>th</sup> Street, Boca Raton, FL 33432 TEL 561-955-9770 FAX 561-955-9760

[www.nav-tv.com](http://www.nav-tv.com) [info@nav-tv.com](mailto:info@nav-tv.com)

## PCM3.1 CAM

### Panamera 2010 and up; Cayenne 2011 and up


Allows the integration of an aftermarket camera into the PCM 3.1 model radios

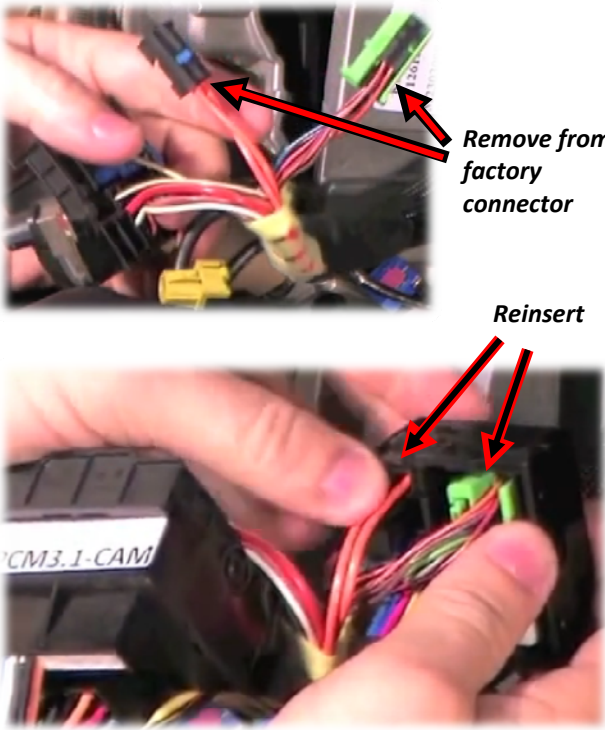
What's in the Box	
1.	PCM 3.1 CAM interface 
2.	T-Harness 
3.	USB cable (used for future updates) 



Radio Removal
<p>It is recommended to tape off and cover surrounding panels, use a plastic pry tool, as to not damage or scratch them.</p> <p><b>Panamera:</b></p> <ol style="list-style-type: none"><li><b>Passenger side:</b> Insert the tool into the bottom of the panel above the glove box, gently pry. When prying by the outside AC vent, be careful as to not damage the cover, this clip is very difficult.</li><li><b>Driver's side:</b> Insert pry tool into the bottom of the panel between the steering column and AC vent, gently pry. Disconnect the wiring, set panel aside.</li><li>Once these panels are removed you will see 2 retention clips holding the AC vent in place. Using the plastic pry tool or a small flat head screwdriver, depress these clips and gently work the vent out. Disconnect vent harness. This procedure is repeated for the other side.</li><li>Once removed, there will be 4) T27 TORX screws. Remove these and pull out the radio.<ul style="list-style-type: none"><li>NOTE: The radio has a plastic guide on the bottom. Be careful when removing the radio from the dash, as this guide will hit the center console and possibly damage it if caution isn't taken.</li></ul></li></ol>



Radio Removal	Cayenne Vent Removal Images
<p><b>Cayenne:</b> To remove the vents you will need a pair of Ford radio removal keys.</p> <ol style="list-style-type: none"><li>1. Inside the vent you will see 4 plastic clasps holding the vents in place. There will be 2 on either side of the vent.</li><li>2. Insert the ford keys into the vent. 1 top , 1 on the bottom. The clasps have an open back, so when the key is inserted, be sure that it goes through the clasp.</li><li>3. Once both keys are in place, squeeze the keys together to release the clasps. You may need to insert a plastic tool under the vent to help “work” out the vent.</li></ol>	

Installation									
<ol style="list-style-type: none"><li>1. Once the radio is removed, disconnect the radio and set aside.</li><li>2. You will need to remove the fiber optic cable and green connector from the factory plug.</li><li>3. Plug the factory 40 way connector into the female receptacle of the supplied T-harness.</li><li>4. Insert the green connector into the empty port of the supplied T-harness.</li><li>5. Plug the fiber optic cable into the new connector.</li><li>6. The filter box will have 2) wires coming out;<ul style="list-style-type: none"><li>• White/Red (pin 4) – 12v in reverse. Whenever the vehicle is placed into reverse, this wire will supply 1 amp of current.</li><li>• White/Blue (pin 8) – 12v acc. Whenever CAN activity is detected; this wire will supply 1 amp of current.</li></ul></li><li>7. Reassemble and test.</li></ol> <p><b>Molex connector:</b></p> <p>Rear view</p> <table border="1" data-bbox="397 1495 568 1606"><tr><td>1</td><td>2</td><td>3</td><td>4</td></tr><tr><td>5</td><td>6</td><td>7</td><td>8</td></tr></table>	1	2	3	4	5	6	7	8	
1	2	3	4						
5	6	7	8						

You may need to go into the options menu to turn on "Parking Assist" and "Rear View Camera", "RVC Lines" are not available.

	<ol style="list-style-type: none"> <li>1. To access the "OPTION" screen, press the "CAR" button on the radio</li> <li>2. To access "OPTION" screen, press the "CAR" button on the radio.</li> <li>3. Once in this screen, touch the "OPTION" tab.</li> <li>4. In this screen, select the "PARKASSIST" icon to display "SET parking" options.</li> </ol>

Programming for vehicles with steering wheel controls Buttons need to be pressed together	Each operation requires a 10 second button press
Diamond + Talk	Programs rear camera for vehicles that have factory parking assist.
Diamond + Mute	Programs rear camera for vehicles without parking assist
Mute + Talk	Deprograms rear camera on vehicles with factory parking assist
Diamond + Hang up	Deprograms rear camera on vehicles without parking assist
*Once programming is accepted, the radio will reboot.	

Programming on vehicles without steering wheel controls	Programming is done by pulsing Pin 4 to 12v within 10 seconds
5 Pulses	Programs rear camera on vehicles with factory parking assist
6 Pulses	Programs rear camera for vehicles without parking assist
7 Pulses	Deprograms rear camera on vehicles with factory parking assist
8 Pulses	Deprograms rear camera on vehicles without parking assist

\*Note-The radio may take up to 3 minutes to reset after programming, please be patient.

**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.