

# NAV-TV

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BHM  
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NTV-DOC188

## TOYCAM

NTV-KIT057/458



### Overview

The TOY-CAM kit includes a camera and harness to connect to the factory media screen in select Toyotas. The signal connection to the radio is plug & play, however the camera will have to be manually powered. KIT057: TOYCAM no lines / KIT458: TOYCAM with lines (cam image)

### Kit Contents



Rear Camera  
NTV-CAM5



Cam Power Harness



Plug & Play Harness  
NTV-HAR054

### Optional 24-pin Adapter



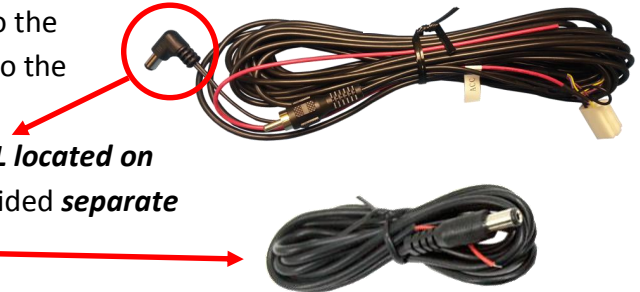
NTV-ASY116

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.

## Installation

1. Remove the factory radio, disconnect all harnesses and set the radio aside.
2. Install the provided camera on the trunk lid/bumper.
3. Connect the provided **Plug & Play Harness** to the camera and run the 4-pin plug side forward to the dashboard opening.

4. **DO NOT USE THE PROVIDED POWER BARREL located on the camera extension harness!** Use the provided **separate Cam Power Harness** instead.

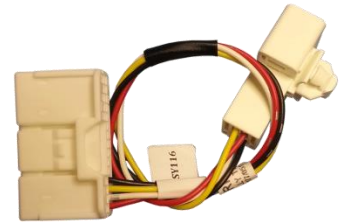


5. Connect the **red** wire from the provided Cam Power Harness to an ACC 12v (+) source from behind the radio (usually a gray wire, **TEST!**). Connect the **black** wire to chassis ground (-). **The radio must see the camera upon vehicle startup in order for the screen to flip to the camera's image when in reverse. You MUST connect the camera to an accessory/ignition source and not a reverse light for proper operation!**

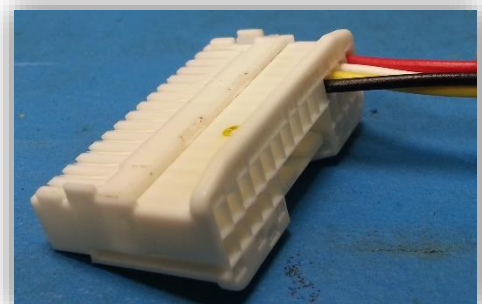
6. Connect the 4-pin plug on the provided **Plug & Play Harness** to the connector shown here. It is keyed and will only fit in one direction:



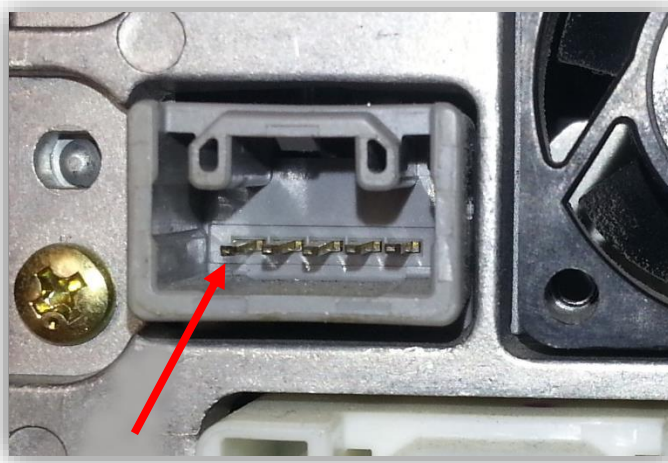
**Note: If this radio does not possess the 4-pin plug, find the 24-pin plug. You will need the Optional 24-pin adapter (NTV-ASY116) available from NAV-TV.**



7. **Perform this step only if this vehicle requires the 24-pin adapter (see step 5). The adapter provided (24-pin plug) is only a reference: You must remove the 4 wires from this adapter and re-populate each pin into the factory plug in the same locations. Removing these pins will require prying the lock-tab up. Connect the 4-pin camera harness to the 4-pin adapter.**



8. Reconnect all the harnesses to radio, reassemble the dash and test by starting the car and placing it into reverse. The reverse image should activate automatically (whenever in reverse).
9. Perform this step only if ***nothing happens on the factory display when the vehicle is placed into reverse:***
  - a. Locate the **Gray, 5-PIN plug** on the back side of the radio and find the factory harness that connects to it (if no harness exists, skip to step d).
  - b. You'll likely need to pry the pin-lock free on the back side of the factory connector (look closely).
  - c. Insert the pin **fully** into the connector in the position shown below:



- d. Supply a 12v + signal ***while in reverse only*** (tap at reverse light) to the free end of the Rear-Trigger Pin. Verify operation by placing vehicle into reverse.

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