

TOYCAM 2-EXP

NTV-KIT450



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.

Kit Contents



Camera extension



Rear Camera
NTV-CAM061



CAM Power
Harness



Rear-Trigger Pin



RCA male to male



Hole-Saw



Video T-Harness

Installation

1. Remove the factory radio, disconnect all harnesses and set the radio aside.
2. Install the provided camera into the trunk lid. Be certain to check for clearance before drilling any holes using the provided hole-saw.
3. Connect the provided **Camera Extension** to the camera and run the RCA/power end forward to the dashboard opening.



4. Connect the **black** and **red** wires from the CAM power harness to ground (-) and ACC 12v (+). **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!**

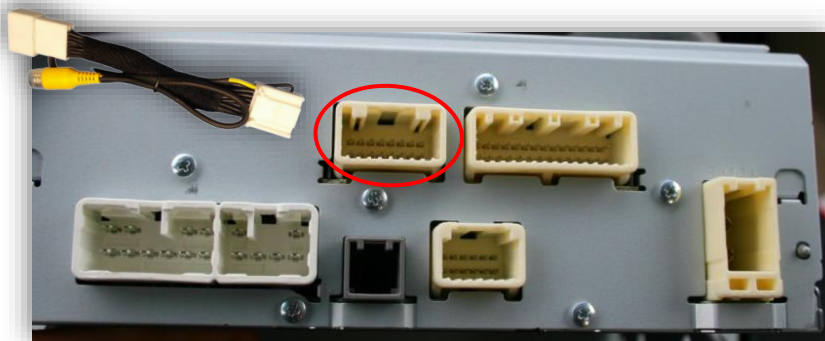
Note: you can find ground (-) and ACC 12v (+) at the radio's power harness (test!):



Toyota Pin #	Description	Color
3	Accessory 12v (+)	Gray
7	Ground (-)	Brown

5. Connect the supplied video t-harness in the connector shown here (below). It is keyed and will only fit in one direction:

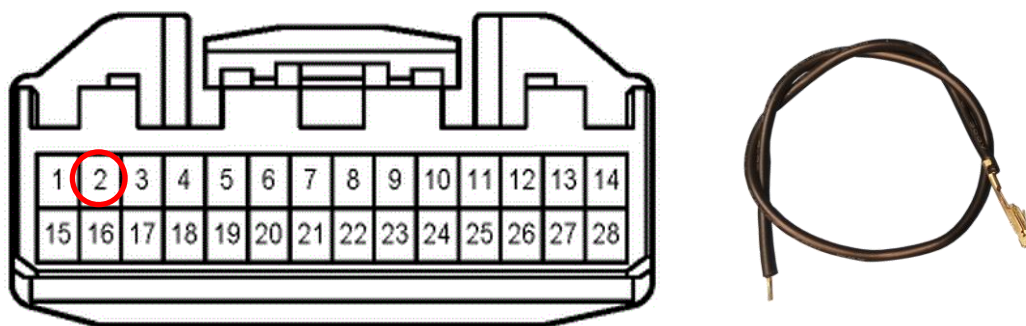
6. Connect the camera's composite signal to the RCA on the provided **Video input harness**, via the CAM power harness.



7. 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). **If the radio does not transition in reverse and you've verified that the rest**

*of the installation is correct, proceed to step 8 to manually populate the provided **Rear-Trigger Pin** (This includes verifying camera power from an ACC source!).*

8. Perform this step only if **nothing happens on the factory display when the vehicle is placed into reverse:**
 - a. Locate the **28-PIN plug** on the back side of the radio and find the factory harness that connects to it (if applicable, this harness may not be present).
 - b. If the plug is present, 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 (or plug) in the position shown below:



(Pin side)

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

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