

NAV-TV

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My Touch-CAM

Ford Rear-Camera integration kit for 8.4" My-Touch Radios

NTV-KIT391/392/446/456



Overview

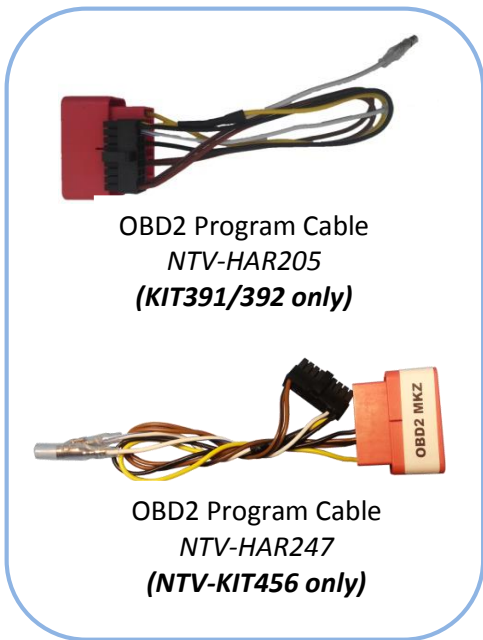
The My Touch CAM Kit programs the My Ford Touch radio for rear view camera, includes differential video converter for aftermarket (composite) back-up cameras.

Following installation, the programmer module w/ harness MUST remain in the vehicle (glove box, etc)!

Compatibility (8.4" Radios)			
	2011	2012	2013+
NTV-KIT391	Edge, MKX, MKS, MKT	Ford Focus & 2013 Ford Taurus, Fusion, Flex, F-Series Trucks (not 450/550), Escape, C-MAX	--Same as 2012--
NTV-KIT392	Explorer	Explorer	Explorer
NTV-KIT446*	F-Series, Flex	F-Series, Flex	F-Series, Flex
NTV-KIT456	---	---	Fusion, Fiesta, MKZ, F-450, F-550 Trucks

***NTV-KIT446 includes NTV-CAM051 with corresponding My Touch CAM kit.**

Kit Contents



NTV-KIT446 ONLY (F Series/Flex Logo cam)



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Installation

1. Using plastic panel tools, remove the dash trim pieces surrounding the LCD to expose the screws securing the My Ford Touch LCD panel in place.
2. Remove the screen from the dash, disconnect all the connectors & set the screen to the side.
3. Gather the Plug & Play DIFF Cam harness from the My Touch Cam kit. Connect the main Ford LCD harness (male end) into the female end of the Plug n' Play harness.

Note: If installing this kit in conjunction with the VIM13 kit, this harness must be closest to the monitor.

4. Connect the DIFF-CAM II board to the 14-pin connector (may be already connected).
5. Ground your camera negative wire to a solid bare metal chassis ground at the back of the vehicle and run the RCA and power connection from your rear view camera to the video interface. Plug the RCA from your rear view camera into the female RCA connection at the video adapter. **The RED wire of the video interface will output 12 Volt + Accessory to power your camera. The output is limited to 1 AMP. If your camera requires more than 1 AMP to function, make sure to use a relay.**
6. Plug the factory 54 pin connector back into the monitor.
7. Leave all connections accessible and skip to the programming section (page 4).

OBD2 Programmer pin outs

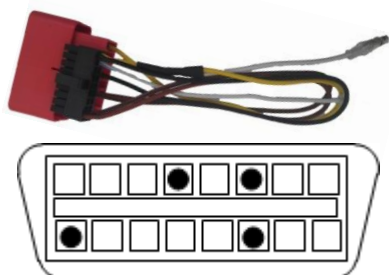
Pin	Description	Color
1	Constant 12v (+) IN	Yellow
2	De-Program wire	White/Blue
9	CAN HI	Brown/Black
10	Ground (-)	Black
18	CAN LO	Brown



Wire Side

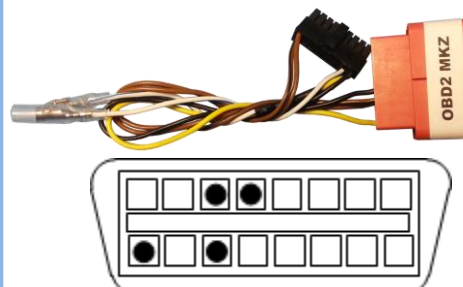


KIT391/392 OBD



NTV-HAR205 Pin Side

KIT456 OBD



NTV-HAR247 Pin Side

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DIFF-CAM II pin outs

Pin	Description	Color
1	12v (output)	Red
3	GROUND (-) (output)	Black
6	Manual Activation	Blue (not used for FORD)
7	CAN HI	Yellow/Black
8	Constant (+) IN	Yellow
9	CAM RCA shield	Black
10	CAM RCA positive	Yellow
12	DIFF VIDEO (-)	White
13	DIFF VIDEO (+)	Gray/Black
14	CAN LO	Orange/White



Wire Side

Programming:

NOTE 1: The MYFORD TOUCH CAM PROGRAMMER MUST BE ORDERED WITH THE PROPER FILE. There are 2 different files; one for the Ford Explorer (NTV-KIT392), and another for all other My Ford Touch equipped vehicles (NTV-KIT391). The files are not interchangeable!

NOTE 2: THE MYFORD TOUCH PROGRAMMER CAN ONLY BE USED TO ACTIVATE THE REAR VIEW CAMERA ON ONE VEHICLE AND MUST REMAIN WITH THAT VEHICLE. FACTORY FORD MYFORD TOUCH UPDATES MAY DELETE THE REAR VIEW CAMERA OPTION AND PUT THE VEHICLE BACK TO AN "AS BUILT" STATE. IF THIS HAPPENS THE UNIT WILL NEED TO BE REACTIVATED BY COMPLETING THE PROGRAMMING STEPS AGAIN. NAV-TV RECOMMENDS THAT THE MYFORD TOUCH PROGRAMMER BE KEPT WITH THE VEHICLE IN THE GLOVE BOX OR OTHER COMPARTMENT AT ALL TIMES.

1. BE SURE THE WHITE/BLUE WIRES ARE **NOT CONNECTED**.
2. Turn the key to the RUN position and keep it in the RUN position until the radio is completely booted and settled to a source screen (ie: FM, CD).
3. With the ignition and radio ON, Plug the MyTouch CAM module harness into the factory Ford OBD plug.
4. Leave the module connected to the OBD until the programming sequence is complete (**see below for a description**).
5. The radio will program and restart in approximately 20 seconds. Once restarted, the radio will go into a self-diagnostics screen. It will take approximately 1-2 minutes to boot into the radio screen.
6. Once the radio restarts, place the vehicle into reverse and verify the radio displays the rear view camera image or goes to a blank screen if a camera is not installed yet. **NOTE: IF THE REAR VIEW CAMERA IS NOT ALREADY CONNECTED TO THE RADIO THE SCREEN MAY TAKE AS LONG AS 15 SECONDS TO GO TO A BLACK SCREEN AND MAY GIVE YOU A WARNING THAT SAYS "CAMERA FAULT".**
7. Disconnect the MyTouch CAM programmer module from the factory OBD2 plug.

8. Verify that the screen displays a rear view camera image once the vehicle is placed into reverse. If the image is displayed correctly, reassemble the vehicle and place the **MYFORD TOUCH PROGRAMMER INTO THE GLOVE BOX OF THE VEHICLE.**
9. Reassemble the vehicle.

De-Programming:

NOTE: BEFORE THE MYFORD TOUCH PROGRAMMER CAN BE USED ON ANOTHER VEHICLE, THE ORIGINAL VEHICLE MUST BE UN-PROGRAMMED.

1. **The MYFORD TOUCH CAM PROGRAMMER WILL NOT UN-PROGRAM ANY VEHICLE IF THE VEHICLE WAS ORIGINALLY PROGRAMMED WITH ANOTHER PROGRAMMER, INCLUDING FACTORY PROGRAMMING, OR A DIFFERENT MYFORD TOUCH CAM PROGRAMMER.**
2. **Connect the white/blue wires TOGETHER.**
3. Repeat steps 2-5 under the **Programming** section, above.
**Note: The programmer will not un-program the factory installed rear view camera option.*

FAQ

Q. The radio went through the programming sequence but I have a blank screen or distorted view of the camera image when I place the vehicle into reverse.

A. Verify that the video adapter and the rear view camera have sufficient power and ground. If using the reverse lamps to power the camera, a relay is required. The lamp output has a low current rating and will not drive a camera. The red wire on the video adapter provides a 1 AMP accessory output for your convenience.

Q. The rear view camera image is distorted and lacks color.

A. Check that the video adapter violet and white/violet wires are populated in the proper pin locations, and that the camera has sufficient voltage and a proper ground.

Q. The system went through the programming sequence, but the screen doesn't go into rearview camera mode.

A. Verify that the white/blue wires weren't connected when programming.

Q. I plugged in the unit, verified the white/blue wires were disconnected and cycled the key on, but the radio didn't change status or program rear view camera.

A. The programmer can only be used to program one vehicle and locks to the VIN number of that vehicle. You must purchase a separate MYFORD TOUCH PROGRAMMER for each vehicle.

Q. I programmed the wrong vehicle or the customer backed out of the sale. What steps do I need to take to ensure that I can still use this MYFORD TOUCH PROGRAMMER on a different vehicle?

A. The vehicle must first be un-programmed before the MYFORD TOUCH PROGRAMMER will work on another vehicle. Follow the un-programming steps on this page before attempting to use the programmer on a different vehicle.

If, and ONLY if, after checking all the connections and rereading this instruction manual you still experience issues, please call our technical support department

Notes

- **THIS MODULE LOCKS TO THE VEHICLE'S VIN NUMBER AND CAN ONLY BE USED TO PROGRAM A REVERSE CAMERA ON ONE VEHICLE.**
- **AFTER PROGRAMMING THE MODULE SHOULD REMAIN WITH THE VEHICLE IN THE GLOVE BOX OR OTHER COMPARTMENT.**
- **IF A MISTAKE IS MADE THE MODULE MUST BE UNPROGRAMMED BEFORE IT CAN BE USED ON A SEPARATE VEHICLE. (SEE PAGE 4)**

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