MY FORD TOUCH REAR VIEW CAMERA INTEGRATION KIT

**NTV-KIT391 for:** 2011-2013 Ford Edge & Lincoln MKX, 2012-2013 Ford Focus & 2013 Ford Taurus, Fusion, Flex, Fiesta, F-Series Trucks, Escape & C-MAX.

**NTV-KIT-392 for:** 2011-2013 Explorer

- **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)

<table>
<thead>
<tr>
<th>Included parts</th>
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<tbody>
<tr>
<td>1. OBD2 Program cable</td>
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<tr>
<td>2. OBD2 Programmer</td>
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<tr>
<td>3. Video adapter</td>
</tr>
</tbody>
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**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 screen from the dash, unplug all the connectors & set the screen to the side. All connections except the ground will be made at the 54 pin plug behind the monitor.

![Image of the monitor showing connections.]

2. Using a pick tool, lift the locking tabs on either side of the connector cover to gain access to the wiring.

![Image of a connector cover being opened.]

3. **DO NOT PLUG THE 14 PIN CONNECTOR INTO THE VIDEO ADAPTER UNTIL ALL CONNECTIONS HAVE BEEN MADE!**

4. Locate the Violet & White/Violet wires on the video adapter board. The wires will already have the appropriate pins crimped to the ends.

![Image of wire connections.]

5. The plug is labeled on one side from pin 1 to pin 18. Insert the pre-pinned video adapter wires into the specified locations until they lock into place. **If 14 and 15 are populated skip to 6 on the top of the next page.** Once inserted, gently tug on the wire to verify it’s locked into place. **The wires do require force to insert and they will be very snug.**
   a. Violet – Pin 15; differential video +
   b. White/Violet – Pin 14; differential video -

![Image of the inserted wires.]

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6. If pins 14 & 15 are already populated from the factory, attach the violet wire to the wire in pin 15 and the white/violet wire to the wire in pin 14.

7. Locate pins 20 (Purple/grey) and 19 (Blue/grey) on the factory connector. Strip back a 1/2" section of insulation from both wires making sure NOT to cut them in half. Attach the white/brown wire from the video adapter to the blue/grey wire in pin 19 of the factory harness. Attach the brown wire from the video adapter to the purple/grey wire in pin 20 of the factory harness. SOLDER these connections and insulate. **NOTE: T-TAPS WILL NOT WORK PROPERLY FOR THIS CONNECTION AND WILL VOID THE PRODUCT WARRANTY!!!!!!**

8. The black wire from the video adapter requires a chassis ground connection. Attach this wire to a clean and paint free bare metal surface. DO NOT CONNECT THIS WIRE TO THE RADIO GROUND!

9. Attach the yellow wire from the video adapter to pin 1 (12 volt constant) of the factory 54 pin harness.

10. The white/blue wire of the video adapter is NOT USED on the MYFORD TOUCH CAM INTERFACE.

11. 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.**

<table>
<thead>
<tr>
<th>Pin</th>
<th>Description</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>12v OUT</td>
<td>Red</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>GROUND</td>
<td>Black</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Manual Activation</td>
<td>White/Blue (not used for FORD)</td>
</tr>
<tr>
<td>7</td>
<td>CAN HI</td>
<td>White/Brown</td>
</tr>
<tr>
<td>8</td>
<td>Constant</td>
<td>Yellow</td>
</tr>
<tr>
<td>9</td>
<td>Camera RCA shield</td>
<td>RCA-Female -</td>
</tr>
<tr>
<td>10</td>
<td>Camera RCA +</td>
<td>RCA-Female +</td>
</tr>
<tr>
<td>11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>DIFF VIDEO -</td>
<td>White/Violet</td>
</tr>
<tr>
<td>13</td>
<td>DIFF VIDEO +</td>
<td>Violet</td>
</tr>
<tr>
<td>14</td>
<td>CAN LO</td>
<td>Brown</td>
</tr>
</tbody>
</table>
12. After all connections have been made, plug the 14 pin Molex into the video adapter and reassemble the factory 54 pin connector.
13. Plug the factory 54 pin connector back into the monitor.
14. Leave all connections accessible and skip to the programming section below.

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. With the key OFF, plug the MY FORD TOUCH PROGRAMMER into the OBD2 plug underneath the driver’s side dash.
3. Turn the key to the RUN position and keep it in the RUN position until the radio is completely done with the programming sequence (see below for a description).
4. 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.
5. 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".**
6. 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.
7. Reassemble the vehicle.

Un-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. With the key OFF, plug the MY FORD TOUCH PROGRAMMER into the OBD2 plug underneath the driver’s side dash.
4. Turn the key to the RUN position and keep it in the RUN position until the radio is completely done with the un-programming sequence (see below for a description).
5. The radio will un-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 DOES NOT change states, i.e. blank screen/rear view camera.
   *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 at 1-866-477-3336 x 2 between the hours of 9-6 EST Monday through Friday.

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