CAM-SYNC2/3DB *16685*

Rear Camera Input

FORD CARS with SYNC2 or SYNC 3



Overview

This interface kit allows you to install an NTSC aftermarket rear camera on the SYNC 2/3 system installed in Ford vehicles.

Contents



CAM OBD2 (Programmer dongle)



Plug & Play harness

Installation

1. Using plastic panel tools, remove the dash trim pieces surrounding the LCD to expose the screws securing the 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 Cam harness from the kit. Connect the main Ford LCD harness (male end) into the female end of the Plug n' Play harness.
4. Plug the factory 54 pin connector back into the monitor (see page 4)
5. Leave all connec ons accessible and skip to the programming sec on (page 4).
6. After comple ng the above tasks, go to programming sec on. program and test then, run the RCA and power connec on from your rear view camera to the video interface. Plug the RCA from your rear view camera into the female RCA connec on at the video adapter.
7. Connect your camera power to the REVERSE LAMP 12v + (In certain cases this may need to relay the output).

OBD2 Programmer



PROGRAMMING

SYNC 2

NOTE 2: THE FORD SYNC PROGRAMMER CAN ONLY BE USED TO ACTIVATE THE REAR VIEW CAMERA ON ONE VEHICLE AND MUST REMAIN WITH THAT VEHICLE. FACTORY FORD 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 PROGRAMMER BE KEPT WITH THE VEHICLE IN THE GLOVE BOX OR OTHER COMPARTMENT AT ALL TIMES.

1. Locate OBD2 socket
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 Programmer CAM module into the factory Ford OBD plug (**see page 3**)
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, the screen will go blank don't be alarmed this is normal. Once restarted, the radio will go into a self-diagnostics screen **(see page 3)**. 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 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 ***PROGRAMMER INTO THE GLOVE BOX OF THE VEHICLE.***
9. Reassemble the vehicle.

SYNC 3

NOTE 2: THE FORD SYNC PROGRAMMER CAN ONLY BE USED TO ACTIVATE THE REAR VIEW CAMERA ON ONE VEHICLE AND MUST REMAIN WITH THAT VEHICLE. FACTORY FORD 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 PROGRAMMER BE KEPT WITH THE VEHICLE IN THE GLOVE BOX OR OTHER COMPARTMENT AT ALL TIMES.

1. Locate OBD2 socket
2. IGN on
3. Wait for screen to fully load
4. Plug in the supplied programming dongle into the OBD port
5. Screen goes blank for 5-10secs
6. Ford logo appears
7. Ford logo disappears
8. Radio then boots up (with no task bar)
9. Wait for screen to fully load
10. IGN off
11. Remove supplied programming dongle
12. Open the drivers door (radio then goes off)
13. Close door and lock car
14. Unlock car
15. IGN on
16. Allow the screen to fully load
17. Select reverse and verify image is displayed.

Various Images

Factory OBD Port



Rear Screen 54 way plug



Diagnostics screen SYNC 2



FAQ

Q. I plugged in the unit, 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 PROGRAMMER for each vehicle.

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.**