



Ford Universal Camera Installation for SYNC 3 Display

Thank you for your purchase! All information provided in this instructional guide is given on an as-is basis. All wires should be verified and tested for functionality before any connections are made. All wiring connections should be made using OEM approved wire repair techniques which include, but are not limited to, soldering and heat-shrinking all connections. Professional installation is recommended!

BEFORE YOU BEGIN

READ AND UNDERSTAND THIS DOCUMENT BEFORE INSTALLING ANYTHING!

Compatibility: This interface module and harness are only compatible with the SYNC 3 radio screen.

Wire Harness: The harness for this kit is designed to make all electrical connections inside the cab. The camera power will come directly from the 12 volt power module that connects to the battery.

THIS INTERFACE MODULE CAN ONLY BE USED ON YOUR VEHICLE AS IT BURNS YOUR VIN INTO THE FIRMWARE. **Once installed it cannot be removed and used on another vehicle or returned for a refund.**

KIT CONTENTS

- SYNC 3 programming interface module and harnesses
- License plate camera with universal bracket
- (2) short screws for mini bracket
- Foam pad for mini bracket
- Camera chassis harness
- 12 volt power module

REQUIRED TOOLS

- Standard wire stripper/crimper
- Torx socket set
- Razor knife
- 10mm socket or nut runner
- Trim removal tool or small plastic putty knife
- Soldering iron and solder (optional)
- Shrink tube (optional)

Section 1, Setting up

Unpack the contents of the package and gather the required tools listed so you can be sure you have everything you need before you begin. Read and understand these instructions thoroughly before you begin the installation process.

Section 2, SYNC 3 Interface Installation

It is recommended to begin the installation at the radio end so that when the camera harness is routed to the cab all connections can be made directly to the interface module. Make sure the key is removed completely from the ignition. Begin by removing your radio to gain access to the factory connectors.

1. Pop open the top center speaker panel using a plastic trim removal tool. It is fastened by four plastic clips. Once loosened, remove two 7 mm screws.



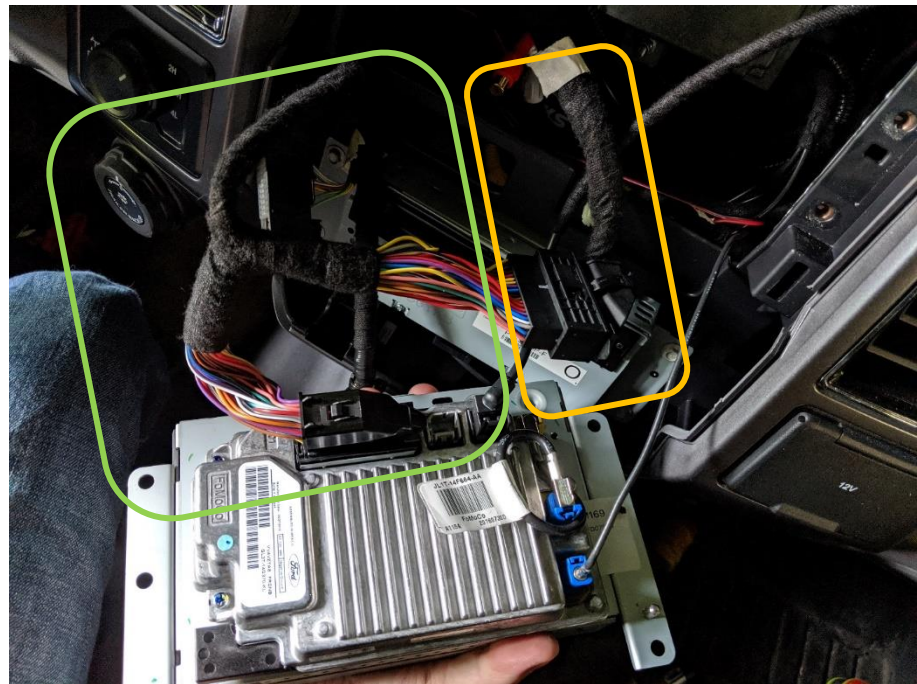
2. Remove the FCIM (Front controls interface module) by pulling on it, top to bottom on both sides. It is fastened by 6 plastic red tabs. Unplug all connectors to the top buttons for hazard lights/hill-descent control/traction control if applicable. Put the FCIM aside.



3. Remove the 8" FCDIM (Front control/display interface module) by removing 3 screws on both sides. Use a 7 mm socket and a ratchet. Be careful not to lose these screws when you remove them.



4. Disconnect the main signals wire harness (shown below in yellow) from the rear of your screen assembly and install the supplied in-line T-harness (shown in green). Plug the supplied T-harness in to the rear of the screen assembly, then plug the factory harness you just removed in to the female connector on the supplied T-harness.
5. Leave dash open and start camera install.



Section 3, Camera Installation

Unpack the contents of the package and gather the required tools listed so you can be sure you have everything you need. You may also need additional supplies and tools based on your specific installation as required.

1. Determine which bracket is more suitable to your installation and swap the camera if necessary. The license plate bracket is already mounted on the camera.

Alternatively, you can swap the camera to the universal mini-mount using the included two small screws and secure the self-adhesive foam tape to the bracket.

2. If using license plate remove plate and reinstall placing camera bracket behind plate. If using mini mount locate a suitable mounting location, clean surface, and stick the camera into place. It is recommended to use screws to secure the camera more permanently.
3. Locate an existing grommet if able to pass camera cable through to get harness into the vehicle interior. A license plate light grommet typically works great and a small slit will allow you to easily pass the small cable through. You may have to remove interior trunk panels to gain access to the back of the grommet. If no grommet is available drill a $\frac{1}{4}$ " hole for the cable to pass through as shown in the photo.
4. Connect chassis harness to camera wire and route toward front of vehicle, tucking under carpet and side panels along the way. Sill plates typically can be removed by simply pulling them from the surface as there normally aren't any screws holding them down. If you have a lift gate it will be necessary to remove the interior panel and route the camera wire through the harness boot that connects the lift gate to the main vehicle body. Be careful to consider moving parts such as power rear windows etc. to ensure that the camera harness will not interfere or get damaged.
5. Camera installation is complete. **Do not turn on ignition or test system until camera connections are made – proceed to camera connection to interface instructions.**



PARKING GUIDELINES: Note that the camera has the parking guidelines enabled by default. If you do not want the parking guidelines in the display, unplug the camera and simply cut the looped WHITE wire that is protruding from the shrink tube on the camera wire near where the camera plugs into the chassis harness.

Isolate each wire with electrical tape or shrink tubing so they're protected and not touching before plugging the camera back in.

There is also a looped blue wire on the end of the camera harness. The blue wire controls camera orientation.



Cut here to remove parking guidelines

Section 4, Camera connections to interface

1. Plug the yellow male RCA plug from the camera video/power cable into the corresponding female RCA jack on the supplied T-harness connected to the module.
2. Install the supplied Rostra 12v power source to provide power to your camera. This device is designed to be able to connect directly to the vehicle's battery and will detect when the engine is running to apply power only when necessary.
3. Attach the black wire coming from the Rostra device along with the black (w/red stripe) wire from the camera cable assembly to a suitable ground.
4. Attach the yellow wire on the rostra device to the positive battery terminal.
5. Attach the red wire (12v out) on the Rostra device to the red wire from the camera cable assembly.



NOTE: The supplied T-harness has a wire labelled “accessory out” and will provide 12v accessory power. However, it should NOT be used to power the camera and instead should be covered and secured aside.

Your installation is now complete. Stow and secure any excess wire harnesses or cable assemblies and re-assemble your vehicle. **Reseal grommet using RTV silicone sealer or Butyl tape to ensure a watertight seal where the camera cable came through.**

6. Test your camera. See Page 6 for system operation details. To operate the front camera, turn on your vehicle and press and hold the volume/power button on your radio bezel for 7 seconds. The front camera should come up on your 8” Sync3 screen. Tap the volume/power button to cycle to the factory rear camera. Press and hold the volume/power button for another 7 seconds to return to the factory Sync interface.

System Operations

Blindspot Cameras- Left turn signal camera and Right turn signal camera are automatically engaged by the turn signal switch in the car. The camera view will correspond to the selected turn signal.

Enabling/Disabling the turn signal feature – Press and hold radio preset #6 for 12 seconds until you hear a beep. If the car has no radio preset button please use the Fast-Forward button.

Front Camera - Automatically turns on for 8 seconds after the Reverse gear is disengaged. The front view camera can be viewed anytime by pressing and holding the Power button on the radio for 7 seconds. Once the camera is displayed on the screen a short press of the Power button will scroll through all camera views. To exit, hold the power button for 7 seconds.

Video input/ Trailer Camera - To activate the video/audio auxiliary input Press and Hold the radio Power button for 7 seconds. Once the camera is displayed on the screen a short press of the Power button will scroll through all camera views. To exit, hold the power button for 7 seconds.

Trailer camera priority - by default the unit will always allow the factory rear view camera to be displayed in reverse. If you are connecting a trailer camera and you would like this camera to have priority over the backup camera. Press and Hold the Left Arrow Button on the Left side of the steering wheel for 8 seconds until you hear a confirmation beep.

Navigation Address Input while the car is moving- To activate this function Hold the Mute button for 5 seconds until you hear a confirmation beep. The function will stay active for 60 seconds if you need more time just repeat the same activation procedure to add another 60 seconds.

Internal Dip Switches- This interface module has internal Dip switches that allow different features to be activated. For example: If you are not adding blind spot cameras you will want to adjust Dip switch #2 to the OFF position.

Adjust dip switches: Make sure the interface module is unplugged completely before beginning. Remove the silver “Made in the USA” sticker located on the back of the module. Remove the screw under the sticker. Gently pull the sides of the box apart to open. This will allow access to the Dip switches. After adjusting the Dip switches, snap the box back together, reinsert the screw and cover with the sticker. Plug everything back in and power up.

Dip Switch # 1 – ON position -Front camera automatic turn on after reverse is enabled.

Dip Switch # 2 – ON position – Left and Right Camera function enabled.

Dip Switch # 3 – ON position – Video Input/Trailer Camera is enabled.

Dip Switch # 4 – Not used must be in the OFF position

Troubleshooting and support

We will provide you with excellent support of your new camera. We just ask that try a few things before contacting us:

Screen does not change over to camera mode

- Make sure all connections are secure at the radio and power connections

Screen changes over but no camera is displayed

- Double check camera connections. Is the camera connector securely inserted into the chassis harness? Ensure the camera connector is pushed tightly into the socket.
- Do you have power at the camera? Check that there is power at your 12 volt power source. Also be sure that your battery is strong otherwise you may have to start the vehicle to get the camera to display properly.
- Do you have a good ground? Connect the camera ground wire to a clean piece of metal on the frame. Make sure it is secure and not insulated.
- Video cable connected and secure?

Screen goes blue when I use my turn signal.

- If side cameras are installed
 - Check connections and power for side cameras
- If you do not have side cameras installed
 - Side camera DIP switch is ON in the interface module
 - Locate interface module you plugged into the back of the factory radio.
 - Disconnect interface module from radio.
 - Remove the sticker on the back of the black interface module.
 - Remove the Philips head screw located under the sticker
 - The module will have a two sets of dip switches one set with 2 the other 4. Locate the set of 4 DIP switches. Change DIP switch #2 to the OFF position.
 - Reconnect module to radio and power up system to test.

If you can rule these out, contact us at support@camerasource.com or 888-844-9763.



36 Month Limited Warranty

This limited warranty applies to all Camera Source brand camera kits that contain the Super CMOS camera.

Camera Source LLC warrants this camera is free from defects in materials or workmanship under normal use and service for a term of 36 months from the date of purchase.

Camera Source sole obligation under this warranty shall be, at its option, to repair or replace the camera module under the following guidelines:

USA and Canada

Camera Source will pay for shipping costs and camera module and/or harness for up to 36 months from date of purchase. Any duties, express or special shipping charges are at the expense of the Buyer

International (all others)

Same as above but shipping costs not covered outside of 6 months from date of purchase

-Warranty is for camera module/harness only and does not include any housings, bezels or other hardware that were part of the initial kit. **Labor or any other collateral expense is not covered under this warranty.**

-Camera Source shall not be liable under this warranty if this product has been misused, abused, altered, repaired without authorization or damaged by other than normal wear

-This warranty extends to only the original purchaser and rights are solely those of the original purchaser and is non-transferable to subsequent owners

-Proof-of-purchase is required for warranty support

-The above warranty is in lieu of other warranty whether expressed, implied, or statutory including, but not limited to any warranty for fitness of purpose, merchantability or freedom from infringement or the like, and any warranty otherwise arising out of any proposal, specifications or sample. Camera Source neither assumes nor authorizes any person to assume for it any other liability

To initiate a warranty claim please contact support@camerasource.com or call 888-844-9763 with proof of purchase (i.e invoice number or copy of receipt). Warranty is non-transferrable.