BCI-FD21

Introduction & Features

The BCI-FD21 is a camera interface that will work with vehicles with or without a factory reverse camera. For vehicles with a factory reverse camera, it will allow the addition of front and side camera inputs. For vehicles without a factory reverse camera, it will program the factory radio to allow the addition of a reverse camera input and will allow the addition of front and side camera inputs.

Important Notes

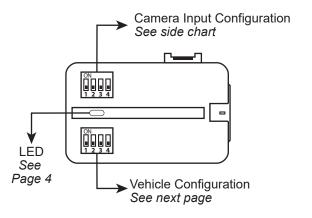
- 1. It is very important to <u>follow the exact sequence of installation steps</u> as listed below. Failure to do so will result in the interface not working as intended.
- 2. Installation should be done with the ignition off.
- 3. If you change the dip switch settings, you must disconnect and reconnect the power plug for the changes to take effect.
- 4. Camera inputs must be selected via dip switch setting for the interface to function properly. If not, the radio may display a blank screen for as long as 15 seconds or display "CAMERA FAULT". Be sure to set camera input dip switches according to your installation.
- 5. This product can only be programmed to a single vehicle. If you need to install the BCI-FD21 in another vehicle it must be unlocked from the prior vehicle first. See instructions on page 3.

Vehicle Compatibility

Model	Year
Ford C-MAX	2013-2015
Ford Edge	2013-2016
Ford Escape	2013-2015
Ford Expedition	2015-2016
Ford F-150 / Raptor	2013-2016
Ford Flex	2013-2016
Ford Focus	2013-2016

Model	Year
Ford Fusion	2013-2016
Ford Mustang	2015-2016
Ford Taurus	2013-2016
Ford Transit	2015-2015
Lincoln MKS	2013-2016
Lincoln MKT	2013-2016
Lincoln MKX	2013-2016

Product Configuration



Camera Input Configuration		
Dip 1	ON = Rear camera ON	
	OFF = Rear camera OFF	
Dip 2	ON = Front camera ON	
	OFF = Front camera OFF	
Dip 3	ON = Side cameras ON	
	OFF = Side cameras OFF	
Dip 4	ON = For vehicles with OEM rear camera	
	OFF = For vehicles <u>without</u> OEM rear camera	



BCI-FD21

Product Configuration (cont.)

Vehicle Configuration (Dips 1, 2, 3)		
ON	Ford C-Max, Escape and Focus	
ON	Ford Expedition, Flex, Lincoln MKS and MKT	
ON	Ford Edge, F150, Fusion, Mustang, Raptor and Lincoln MKX	
Dip 4	ON = Cannot view OE rear camera image while in motion (up to 7mph). OFF = Can view OE rear cam in motion.	

Vehicle Configuration Procedure:

Set dip switches per vehicle model according to chart.

Be advised that some vehicle models can have different dip switch configurations based on the model year.

To verify if you have selected the correct dip switch configuration for your vehicle, activate one of the turn signals and watch the BLUE LED on the BCI-FD21.

The LED should illuminate while the turn signal is active. If it does not, try another dip switch configuration until you find one where the LED illuminates while the turn signal is active.

Installation Steps

1. Set the dip switches for your vehicle, and the camera inputs which you wish to activate.

Set the dip switches BEFORE connecting the module to power. If a change is made to the dip switches, disconnect then reconnect the module, for the changes to take effect.

- 2. Remove the factory radio (display) and disconnect the factory harness.
- 3.Connect the BCI-FD21-H01 harness to the back of the factory radio (display) and reconnect factory harness to the mating connector on this harness.
- 4.Connect the aftermarket cameras to the appropriate inputs on the BCI-FD21-H02 harness.
- 5. Connect 12-volt power and ground to your aftermarket cameras. (Note: use of this 12v output can extend the life of your cameras as it only powers the cameras when needed)

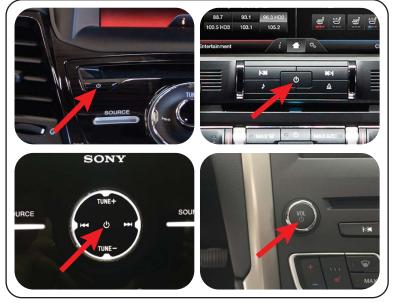
Brown Wire = 12 Volt + (2A)
Black Wire = Ground

6.Connect both BCI-FD21 harnesses to the BCI-FD21.

7. Program the BCI-FD21 to the vehicle:

- Turn the key to the RUN position.
- Once the radio is fully "booted" and on a source screen, press and hold the Power button of the radio for 10 seconds.
- The radio will program and restart in approximately 15 seconds. Once restarted, the radio will "boot-up", wait for 1-2 minutes until the radio is fully "booted" and on a source screen.
- To finish programming turn off the ignition, open the driver's door and wait until the radio is completely off (1-2 minutes).
- Turn on the ignition and test camera functions.

Power Button Location on 4 Different Vehicles



Note: In order for the BCI-FD21 to function, at least one camera input must be set ON in Camera Input Configuration.



Camera Interface for Select Ford & Lincoln Vehicles with MyFord Touch or MyLincoln Touch 8.4" Radios

BCI-FD21

Operation

REAR CAMERA

The rear camera will be displayed automatically when vehicle is shifted into Reverse.

FRONT CAMERA

The front camera will display automatically when shifting the vehicle from Reverse into Neutral, or Drive. The front camera will be displayed for 30 seconds, or until the vehicle is travelling at a speed of 7 mph. You can manually cancel / turn off the front camera image by pressing the power button on the radio while it's active.

To disable automatic front camera view when shifting from Reverse to Drive, follow these steps:

- 1. Place the car in Reverse
- 2. Press and hold the Power button for 5 seconds (the image of the rear camera may flash on the screen)

To enable automatic front camera view, repeat the steps above.

SIDE CAMERAS

The side cameras will be displayed automatically when you activate the turn signal (except in reverse).

MANUAL ACTIVATION OF CAMERA VIEWS

Press and hold the Power button for 2 seconds to access the rear camera then give a simple tap to toggle between front and rear camera. To return to the radio screen press and hold the Power button for 2 seconds again.

Note:

During manual activation, the video display may flash momentarily when the vehicle reaches 7mph. This is normal operation.

Installing the BCI-FD21 in Another Vehicle

In order to install the BCI-FD21 to another vehicle you must unlock the interface from the previous vehicle by turning off the video input before removal.

Follow the steps below to turn off the video input:

- Turn the key to the Run position and keep it in Run position until the radio is fully "booted" and on a source screen.
- Set all the Camera Input Configuration dip switches to OFF.
- Disconnect and reconnect the BCI-FD21-H01 harness from the interface.
- Press and hold the Power button of the radio for 10 seconds.
- The LED will begin flashing RED and the radio will unprogram and restart in approximately 15 seconds.
- Once restarted, turn off the ignition, open the driver's door and await until the radio is completely off (1-2 minutes).
- Turn on ignition, shift the vehicle into Reverse and verify no camera input screen is displayed. If radio source screen does not change then you have successfully unprogrammed the radio and unlocked the interface from the vehicle. You can now install the BCI-FD21 into another vehicle.



Camera Interface for Select Ford & Lincoln Vehicles with MyFord Touch or MyLincoln Touch 8.4" Radios

BCI-FD21

FAQs

1. No video when I shift the vehicle in Reverse.

 Check that proper dip switches are selected and that power to the interface was disconnected and reconnected after these settings are made.

2. Radio is displaying "CAMERA FAULT".

- Camera inputs must be selected via dip switch setting for the interface to function properly. If not, the radio may display a blank screen for as long as 15 seconds or display "CAMERA FAULT".
- Be sure to set camera input dip switches according to your installation. For example, if you are using rear camera input, camera configuration dip switch #1 should be on. If you are using the side camera inputs then camera configuration dip switch #3 should be on. No other unused camera inputs should be on in the camera configuration dip switches.
- Check that the cameras are powered and are providing a video output.

3. The Side Cameras are not working while in drive and I activate the turn signal.

· Check the camera and vehicle configuration dip switches and consult the LED STATUS while activating the turn-signal.

4. Unable to program the proper video input selections.

• Check if the BCI-FD21 was programmed in another vehicle prior to this installation. Do this by following the instructions on pg3.

NOTE: Previous vehicle is required for unlocking the module.

LED STATUS		
Flashing Blue	Programming the video input	
Flashing Red	Cancelling the video input programming	
Flashing Purple	There is no response to programming	
Solid Purple	The video input was already programmed	
Solid Red	Interface is locked to another vehicle VIN	

WARNING: In order to avoid distraction, which could lead to an accident, the driver should never watch the front or rear camera when the vehicle is in motion. Even when operated by the passenger, the vehicle driver should maintain their attention on the road at all times.

DISCLAIMER: Under no circumstances shall the manufacture or the distributors of the BCI-FD21 be held liable for claims of any loss or damage, consequential, direct or indirect, arising from the sale, installation, or use of the BCI-FD21. The manufacture and its distributors will not, nor will they authorize any representative or any other individual, to assume obligation or liability in relation to the BCI-FD21 other than its replacement.

AGREEMENT: End user agrees to use this product in compliance with the instructions and terms of use above and with all State and Federal laws. PAC provides instructions and safety warnings with respect to this product and disclaims all liability for any use not in conformity with those instructions or other 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 use only.

