

# 250-8419-MOD MyFord 4" Installation Manual

Full plug and play programming and power kit, for Ford Vehicles with a camera-compatible 4" MyFord Display

## Required for Install:

1. Ford Vehicle with camera-compatible 4" MyFord Display (See Application Guide).
2. 250-8419-MOD Kit
3. Backup camera with RCA video connection

## Vehicle Applications: (See Compatible Displays)

2011+ Edge, Explorer, MKX

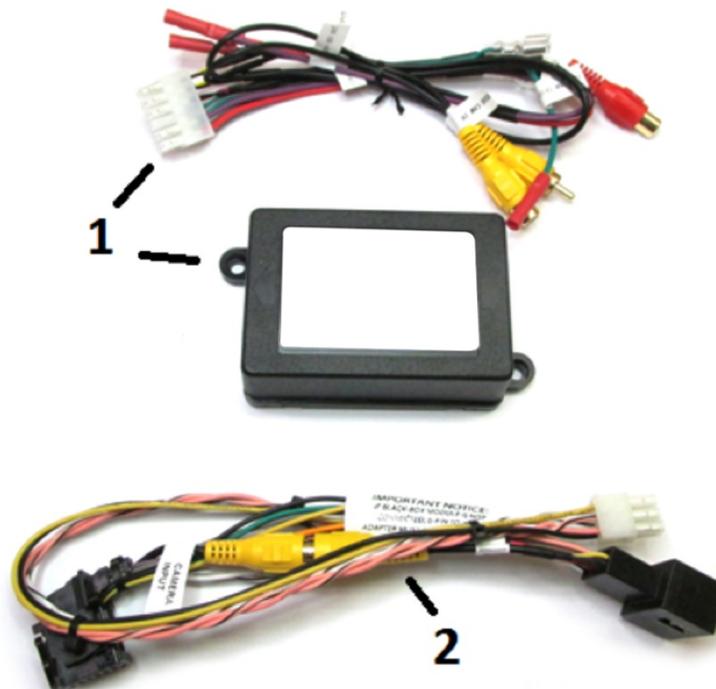
2012+ Focus

2013+ C-MAX, F150, Flex, Fusion, Taurus

2014+ Fiesta, Transit, Transit Connect

## 250-8419-MOD Kit Contents:

1. 250-8421 Module with Accessory Harness
2. 250-8419 Plug and Play T-Harness for MyFord Vehicles



## Step 1: Verify Display Compatibility

Disassemble dash to remove Electronic Faceplate/Front panel to gain access to the FCDIM (4" Display). Unplug and remove the FCDIM. Find part number on back of display and verify compatibility.

If your part number is not listed below, please call the supplier of this kit to verify compatibility.

Known Incompatible Displays		
BB5T-19C116-CJ	CM5T-18B955-AD	CJ5T-18B955-GF
BT4T-19C116-CN	CM5T-18B955-CE	CM5T-18B955-AB
CE8T-18B955-AA	CM5T-18B955-GF	DM5T-A8B955-CD
CE8T-18B955-AD	CM5T-18B99-AD	EM5T-18B955-CA
CJ5T-18B955-GC	D2BT-18B955-BE	EM5T-18B955-CB
CJ5T-18B955-GE	DA6T-18B955BB	

## Step 2: Dip Switch Configuration

**Modules must be configured before first use.** To configure, please consult the following chart based on your application. **DIP Switches must be set with module disconnected from power!!**

(1) Indicates a dip switch in the ON/UP position

(0) Indicates a dip switch in the OFF/DOWN position

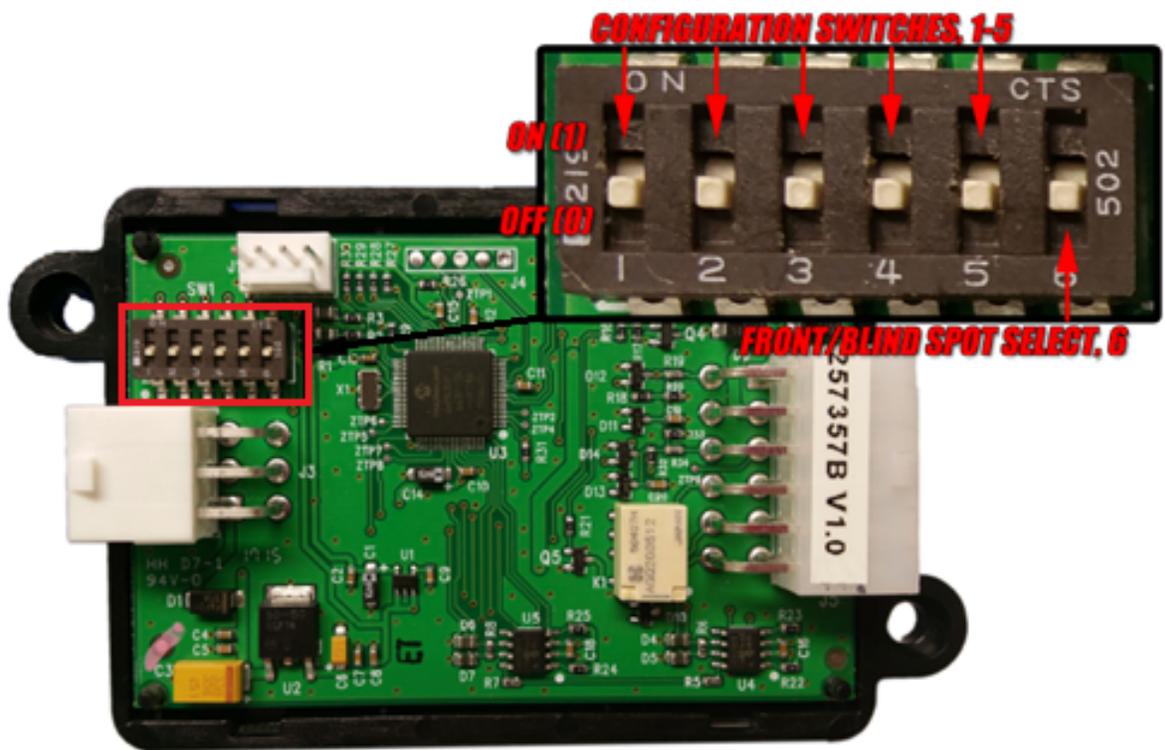
### Recommended Dip Switch Configurations

DIP SWITCH SETUP	APPLICATION	COMMENTS
00010	Rear Camera with or without additional Front/Side Camera	Requires Module Programming
10010	Front of Side Camera addition only	Automatically Runs Programming Procedure Upon Vehicle Startup

DIP Switches must be set before installation for module to work properly. Failure to do so may result in unintended consequences.

Use the dip switch configuration guide to set the first five switches to the corresponding profile, setting them from left to right with 1 meaning ON and 0 meaning off. The 6th dip switch is only used for Auxiliary cam functions. **If you are not installing a side camera, Dip Switch #6 must be set to 0.** Failure to do so may cause the screen to go blank when turning signals are in use.

**I** To set the dip switches, refer to the graphic below. Only dip switches 1-5 set the main configuration. The 6<sup>th</sup> dip switch changes between Front/Aux camera mode(OFF/0), and Blind Spot/Cargo camera mode(ON/1).



## Step 3: Wiring

**Note:** Before installing T-Harness, ensure car is given time to fully “shut down”. You can do this by turning the car off, opening and closing the driver’s door, and allowing the car to sit for 5 minutes.

### There are 3 different applications of this kit.

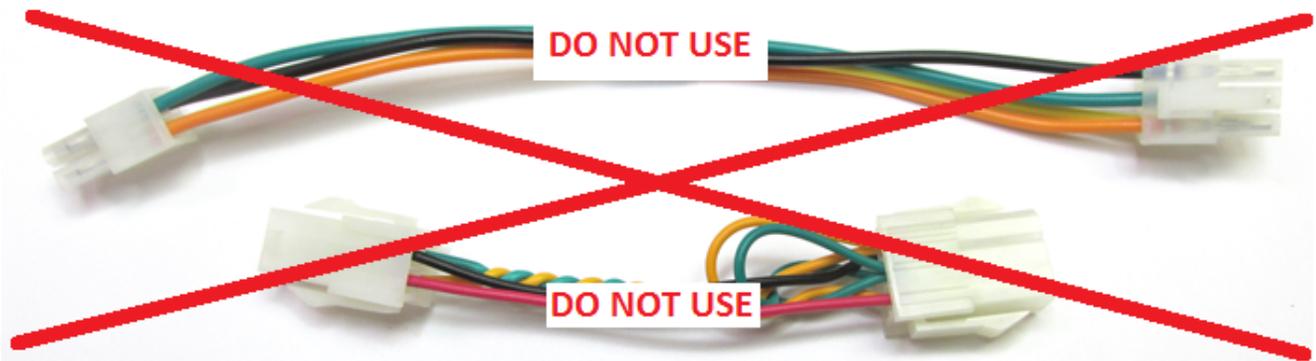
- Adding an Aux Camera to a vehicle with an OEM Rear Camera
- Adding a Rear Camera and an Aux Camera to a vehicle with no other Cameras
- Adding Rear Camera to a vehicle.

### Auxiliary Camera Wiring Info

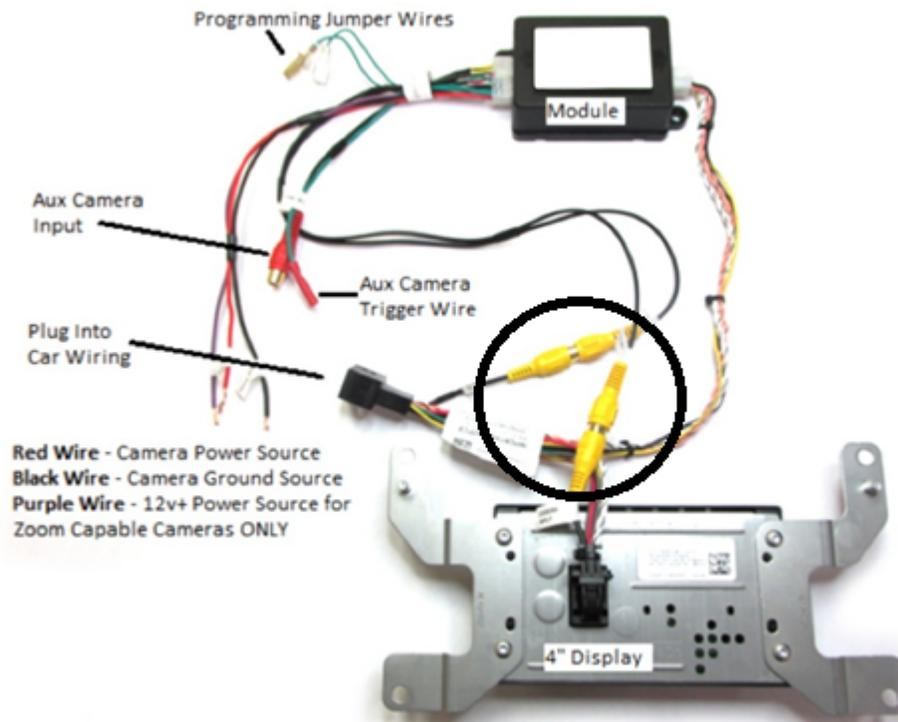
- The factory OK Button (**More Info on Page 8**) can be used to engage the Front/Side Aux Camera.
- If you are using a Front Aux Camera in your application, but want a different way to engage the Aux Camera than the factory OK Button (**More Info on Page 8**), the green Aux Camera Trigger wire can be attached to a ground source switch to have a different way to engage the aux camera.
- If you are using a Blind Spot Side Aux Camera in your application, your vehicle might automatically engage the side camera when the right turn signal is activated (**Meaning the Aux Camera Trigger Wire WON'T Need to be Used**). Test this by wiring everything correctly and using the turn signal to see if the camera is activated. If your vehicle doesn't engage the side camera automatically, the green Aux Camera Trigger Wire needs to be attached to a ground source from your turn signal system to allow engagement of the Aux Camera when the right turn signal is used.

### Additional Notes

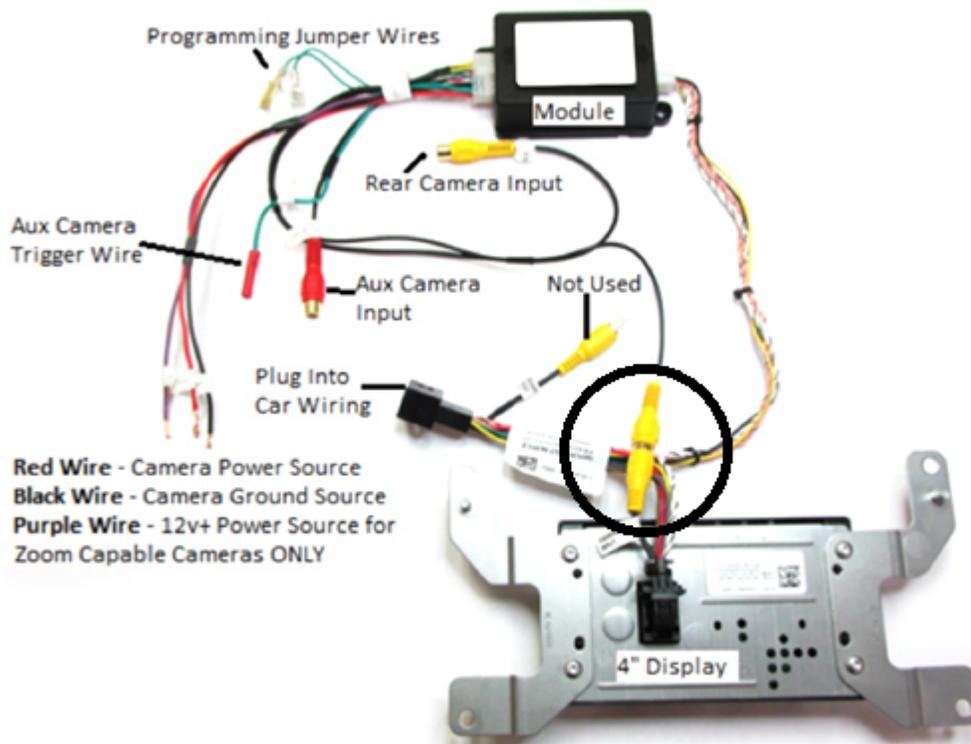
- This system only allows for **1 AUX CAMERA**.
- The 6-Pin to 4-Pin Harness adapter needs to be removed from the T-Harness as it is a bypass harness used to bypass the module and resume factory function of the Display.



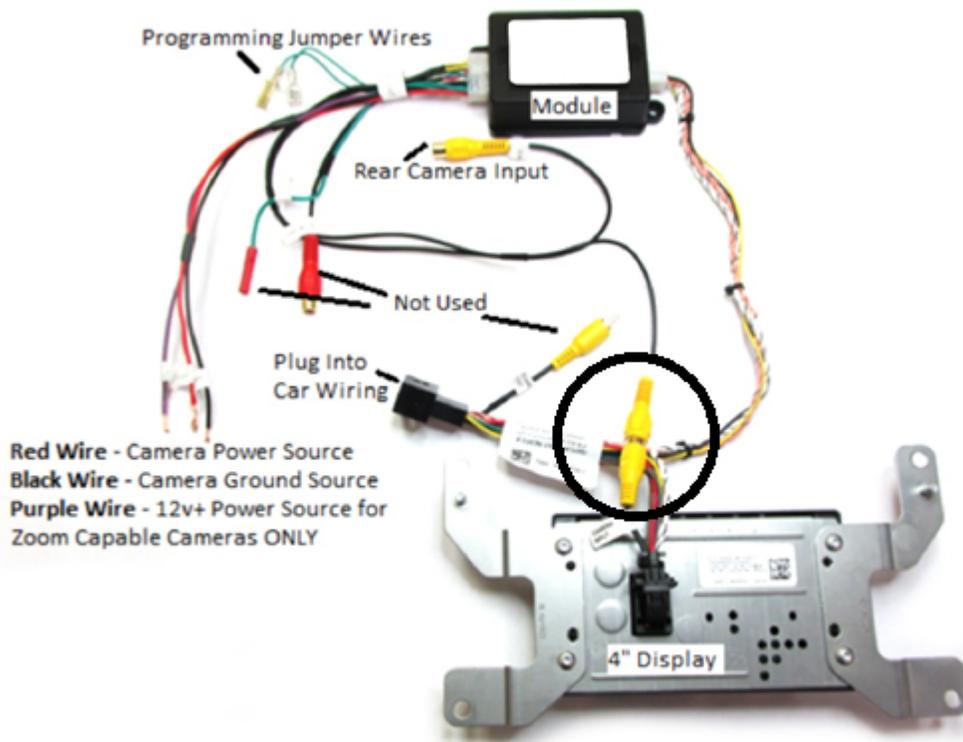
## OEM Rear Camera and 1 AUX Camera Wiring



## Aftermarket Rear Camera and 1 AUX Camera Wiring



## Aftermarket Rear Camera Only Wiring



### Step 4: Programming the Module

**NOTE: Skip This Step if an Automatic Dip Switch Configuration is Being Used**

- 4.1- Remove 6-to-4 pin adapter from Harness. This will not be used.
- 4.2- Verify correct module DIP switch configuration.
- 4.3- With vehicle ignition turned on and radio display on and connected, connect the two jumper wires together. This will initiate the programming procedure.
- 4.4- Within 10 seconds radio display should display "Diagnostics mode" and shut off. Radio display will turn back on, and should shut off one more time. Once radio and display have shut down twice and came back on, programming is complete. The entire process should take less than two minutes.
- 4.5- If the programming does not work successfully, disconnect module power, verify the DIP switch settings, reconnect module, turn the vehicle off and then on again, and try again.
- 4.6- **Disconnect and isolate the Programming Jumper Wires to prevent future accidental programming.**

## Step 5: Verify System Operation

**Note: Disconnect and isolate the Programming Jumper Wires to prevent future accidental programming.**

Your display should now be programmed to accept a backup camera. To test this system your backup camera must be connected to the correct RCA connection, power, and ground (Shown in the diagrams of step 3). Start the vehicle and place the vehicle in reverse with your foot firmly on the brake. The display should switch to the backup camera at this time. If it does not, please see the next step.

## Step 6: Troubleshooting

If vehicle is placed in reverse and display reads "Camera Not Available", programming was successful, but the display is not getting a video signal. This can be caused by any of the following:

1. The backup camera video output is not connected to the correct video input. (Check the wiring diagram for your application)
2. The backup camera is not powered on. (Test for battery voltage with the car on)
3. Display is not compatible with a camera (See compatibility guide)
4. The dip switch configuration is wrong. (Check dip switch configuration and reprogram the module)
5. The module isn't properly/fully programmed. (Check dip switch configuration and reprogram the module)

## Important Notes

- Camera must be connected to RCA connection and power before testing. If camera is not properly connected before vehicle is put in reverse, a "Camera Not Available" message will display and the camera will not function until the vehicle is power cycled. If this message is present, the programming was successful, but the display is not seeing a video signal.
- Depending on vehicle configuration, display may stay in reverse camera mode until vehicle is driven to a pre-determined speed. This is a factory function.
- Some displays will show a magnifying glass (zoom) icon on the display. This is meant to be used with an OEM Camera with zoom function. It is not compatible with any aftermarket cameras and cannot be disabled.
- **Once installed and running, the module must be unprogrammed (More Info on Page 9), before the module can be used with a different vehicle.**

## Additional Information

### MyFord Camera with Zoom Button Output

This mode is identical to MyFord Rear Camera with Optional Aux Camera, but the “Reverse Output” purple wire will now offer a 12V+ Output when the OEM “Zoom” button is pressed on the display/button panel. This will work whether the display is equipped with a factory “zoom” button or not. **This mode will only work with an aftermarket camera with a manually activated zoom function. May require a relay for installation using ground-switched cameras.**



### MyFord/MyFord Touch OK Button

The auxiliary camera can be activated by pressing and holding the “OK” button for 3 seconds on either the radio controls or the steering wheel controls. A simple press of the OK button will exit Front/Cargo/Blind Spot camera modes.

For manual/hardwire activation, use the green wire to connect to a ground activation to enable the auxiliary camera.



## Unprogramming/Reset to Factory

This module can be used to return the vehicle to factory in the case the customer wants it uninstalled. Once this is complete the module can then be used on another VIN. Until the unprogram routine is run, the module is locked to the VIN of the vehicle it is currently installed in.

To unprogram the vehicle, disconnect the module, set the DIP switches to the corresponding “Unprogram” profile, reconnect the module and wait for the display to reset twice the same as in the programming procedure.

### Dip Switch Configurations

Config #	Dip Switch Setup	Description
0	00000	MyFord Satellite Radio add-on with Front/Side Aux Camera
1	00001	MyFord Satellite Tuner UNPROGRAM
2	00010	MyFord Camera with Optional Aux Camera
3	00011	MyFord Camera UNPROGRAM
4	00100	MyFord Satellite and Camera
5	00101	MyFord Satellite and Camera UNPROGRAM
6	00110	Fiesta Satellite & CD
7	00111	CMC Chrysler Rear Camera with Optional Aux Camera (RA2, RA3, RA4)
8	01000	CMC CD and Rear Camera (RA1, RA2, RA3, RA4)
9	01001	CMC CD (RA1, RA2, RA3, RA4)
10	01010	CMC UF Proxi Camera (Small - 200) (RA2, RA3, RA4)
11	01011	CMC UF Proxi Camera (Small - 200) (RA2, RA3, RA4) UNPROGRAM
12	01100	CMC KL Proxi Camera (Large - Cherokee) (RA2, RA3, RA4)
13	01101	CMC KL Proxi Camera (Large - Cherokee) (RA2, RA3, RA4) UNPROGRAM
14	01110	CMC Aux Cam Addition (RA2, RA3, RA4)
15	01111	NTG4 Camera - MYGIG HS (RER, RBZ, RHB, RHR)
16	10000	NTG4 Camera - MYGIG LS (RER, RBZ, RHB, RHR)
17	10001	CTP Chrysler
18	10010	MyFord/MyFord Touch Aux Camera Addition – Automatic Program ( <b>Module Programs Itself On First Use</b> )
19	10011	MyFord Satellite Tuner - Automatic Program ( <b>Module Programs Itself On First Use</b> )
20	10100	MyFord Camera with Optional Aux Camera - Automatic Program ( <b>Module Programs Itself On First Use</b> )
21	10101	MyFord Satellite and Camera - Automatic Program ( <b>Module Programs Itself On First Use</b> )
22	10110	MyFord Camera with Zoom Capabilities
23-31	All other Switch Setups	Unused Configuration (No Function)