

# NAV-TV

INTERFACING THE FUTURE

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## C.O.D.-F5

Ford OEM 360 Surround-View Camera Controller  
*NTV-KIT899*

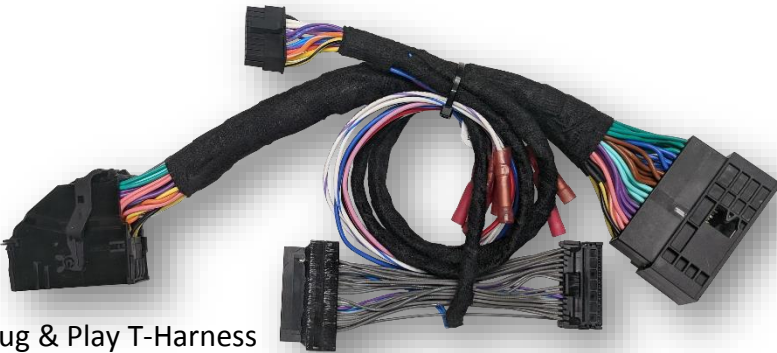


BHM  
11/12/18  
NTV-DOC334

Overview

The COD-F5 (Camera-On-Demand) kit allows Ford SuperDuty trucks equipped with OEM (5-camera system) surround view cameras to be displayed on demand, without lock-out restrictions. Additional features include turn signal cameras, easy force rear cam & force front cam & last known camera retention (from hard camera button press). **NOTE: This kit will NOT program any camera system. This module is only intended for use in SuperDutys equipped with the OEM trailer package (5-camera system).**

Kit Content



Plug & Play T-Harness  
NTV-HAR329



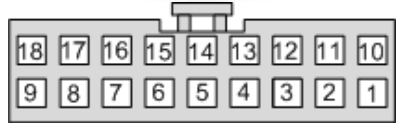
COD-F5 Module  
NTV-ASY301



USB cable (updates)  
NTV-CAB009

COD-F5 Module Pin Out

Pin #	Description	Color
1	12v Constant Power (+)	Yellow
2	INPUT 1: Force External Camera	Red
3	INPUT 2: NOT USED	Blue
4	INPUT 3: NOT USED	Pink
5	RX (OE camera button – button side)	Blue
6	CAN-3 HIGH (camera module)	Blue
7	CAN-2 HIGH (CAN gateway)	Blue
8	CAN-1 HIGH (APIM)	Yellow
9	CAN-0 HIGH (CAN gateway)	Yellow/Black
10	Ground (-)	Black
11	OUTPUT 1: NOT USED	White/Red
12	OUTPUT 2: NOT USED	White/Blue
13	OUTPUT 3: NOT USED	White/Purple
14	TX (OE camera button – module side)	Purple
15	CAN-3 LOW (camera module)	Purple
16	CAN-2 LOW (CAN gateway)	Purple
17	CAN-1 LOW (APIM)	Orange
18	CAN-0 LOW (CAN gateway)	Orange/White



Wire side

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## COD-F5 Installation

### 1. Remove the 8" SYNC 3 screen (radio):

- a. Remove the center channel speaker cover on the top (middle) of the dash (4 clips only).



- b. Remove (2) 7mm bolts securing the top panel (previously hidden by the speaker grill).



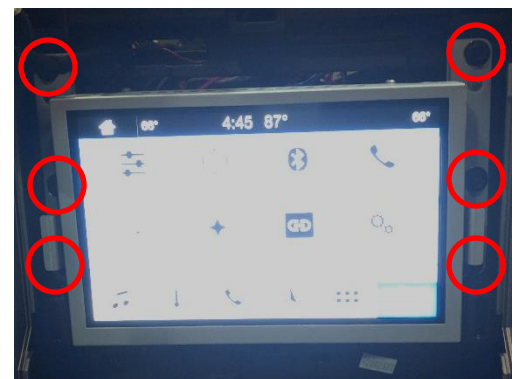
- c. Remove the whole upper shelf panel, it should be held in by clips only, now. Disconnect the speaker lead. Set this panel assembly aside.



- d. Remove (2) 7mm screws on top of the climate/screen dash panel, and then pull panel straight towards you. Disconnect all harnesses and set the panel aside.

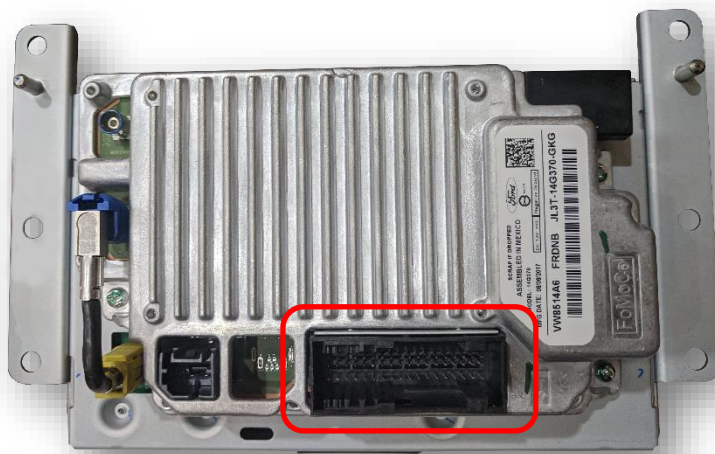


- e. Remove (6) 7mm screws securing the screen (APIM) to the sub-dash. Disconnect all harnesses and set the APIM aside.



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2. Connect the provided T-Harnesses between the vehicle harness and the APIM (screen), and from the vehicle harness and the OEM camera module (directly behind screen).

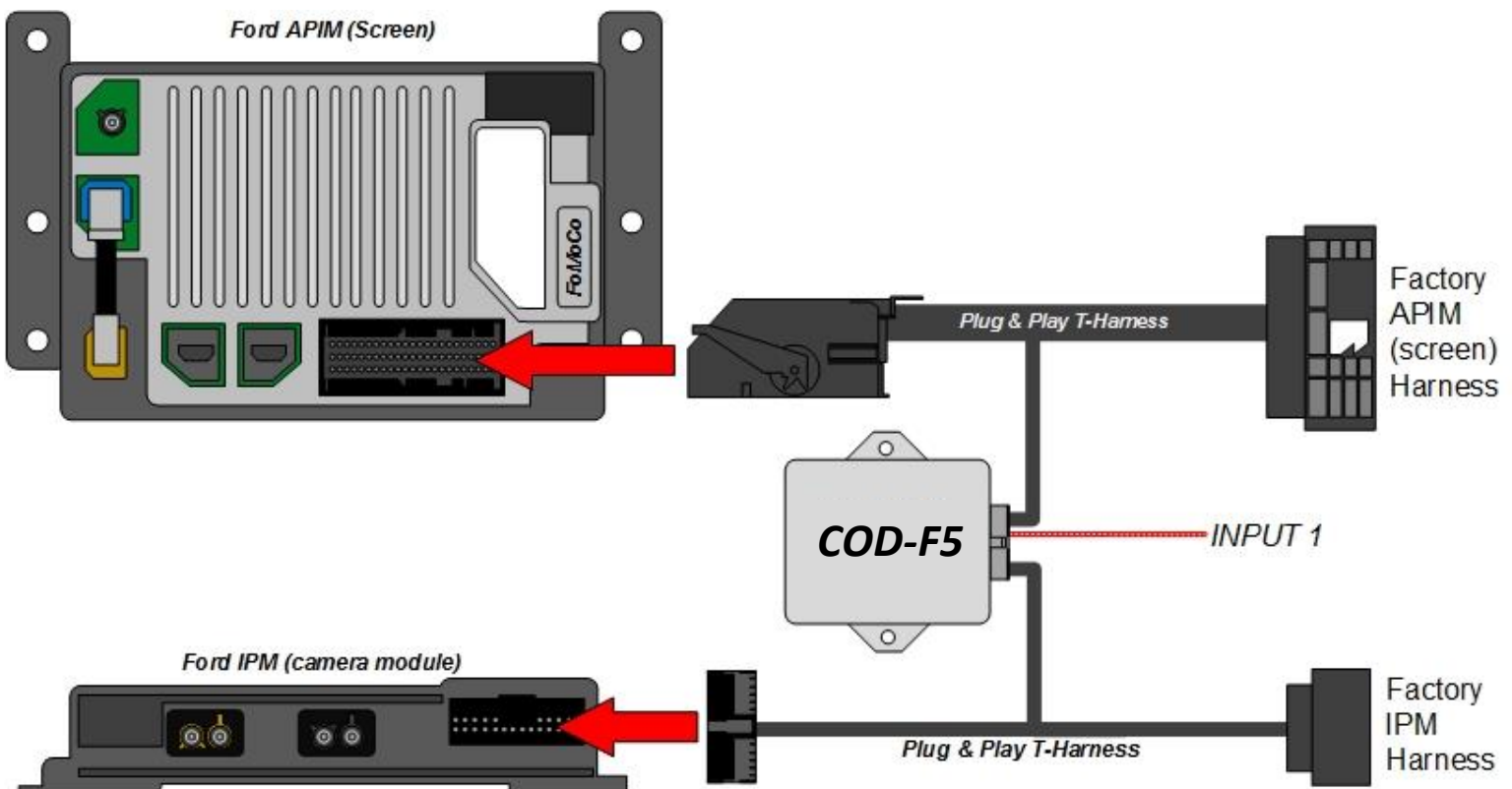


Rear of APIM (screen)



IPM (camera module)

3. **Optional:** If the user wants to use an analog trigger for camera display, wire the INPUT (for the forced feature desired) to a toggle switch so that the INPUT wire receives 12v (+) when activated. See pin out chart on page 2.
4. Connect the 18-pin plug to the VIM module and secure it in the sub-dash so that nothing rattles. *NOTE: No other wires from the unit are used for this installation.*
5. Return the screen to the sub-dash and reconnect the climate/screen surround panel for testing.
6. **Proceed to 'COD-F5 Operation'.**



## COD-F5 Operation (SuperDuty)

Once the COD-F5 module is connected properly, all added camera commands are performed through the factory camera button. Added features are outlined below:

- **Camera button now shows rear camera** (default after ignition) with a single press (press and release once again to clear)
- **Camera button now shows front camera with a double press** (press and release once again to clear)
- **Last used camera image (whether front, rear, cargo or surround view) is retained when switching back and fourth from radio screen to camera screen via camera button** (instead of default surround view only with each press)
- **Turn signals switch to corresponding side view** (left or right, panned 100%) \*



*\*NOTE: to disable turn signal camera activation, press and HOLD the camera button for 20 seconds (wait for tone). Once complete, turn signals cameras will deactivate. Repeat this process to reactivate TSC at any time.*

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