

# NAV-TV

INTERFACING THE FUTURE

3950 NW 120<sup>th</sup> Ave, Coral Springs, FL 33065 TEL 561-955-9770 FAX 561-955-9760

## Jaguar F-TYPE CAM 16

Dual Camera interface for select '16+ Jaguar vehicles

*NTV-KIT746*

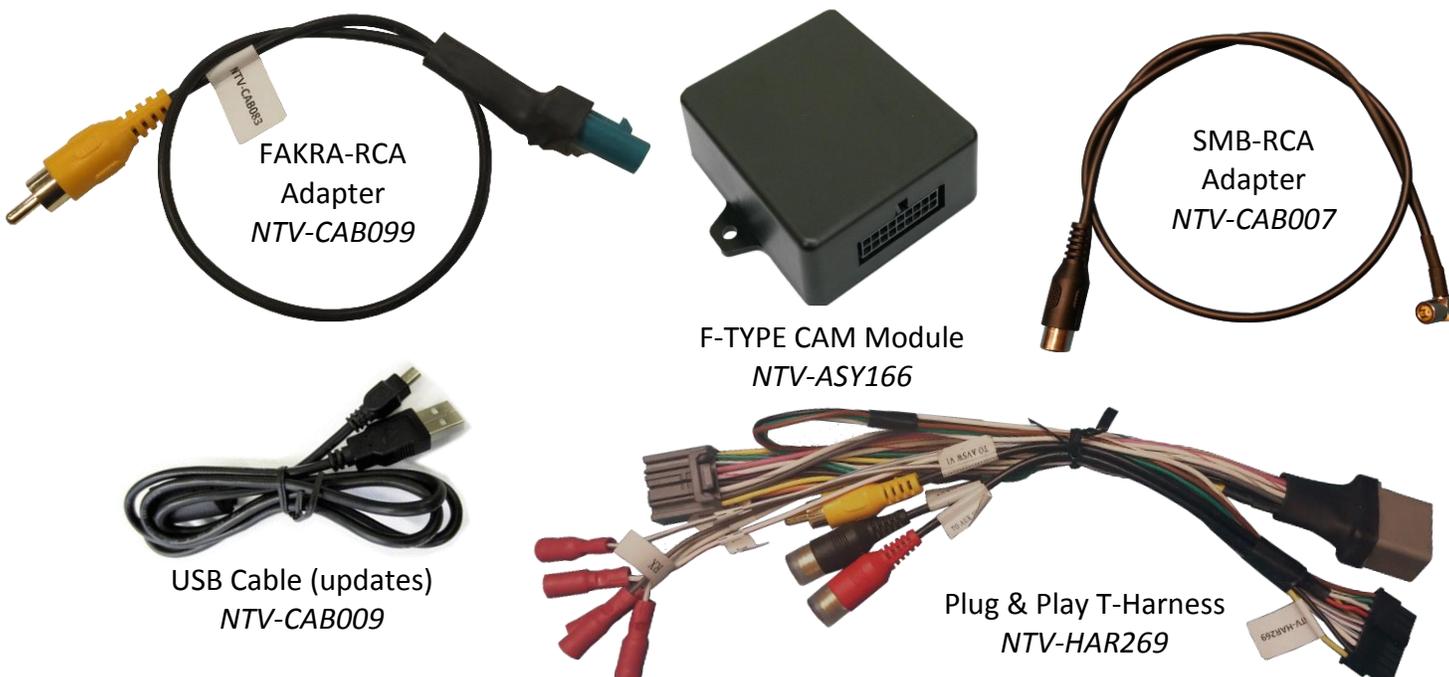


BHM  
01/23/17  
NTV-DOC259

## Overview

Jaguar F-TYPE CAM 16 interfaces 2 cameras (front & rear) to the factory touch screen. Forcing either camera to display is activated via wired inputs. This interface is currently only compatible with the 2016 F-Type and the reverse wire must be manually tapped.

## Kit Content



## F-TYPE CAM Pinout

PIN #	Description	Color
1	12v (+) constant input	Yellow
2	Input 1 (+): <b>Connect to OEM reverse 12v signal</b>	Red
3	Input 2 (+): <b>force front camera</b>	Blue
6	VIDEO OUT RCA	Yellow
7	RCA Shield	Black
8	CAN HI (Radio Side)	White/Green
9	CAN HI (Car Side)	White/Brown
10	Ground (-)	Black
11	Output 1 <b>ACC (+)</b>	White/Red
12	--NOT USED--	White/Blue
15	Front RCA Video IN	Red
16	Rear RCA Video IN	White
17	CAN LO (Radio Side)	Green
18	CAN LO (Car Side)	Brown



**Wire side**

Agreement: End user agrees to use this product in compliance with all State and Federal laws. NAV-TV Corp. would not be held liable for 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 entertainment only.

## Dash Removal (F-Type)

1. Using a plastic tool, pry up the plastic trim surrounding the shifter. It is secured with clips only.



2. Disconnect the cigarette lighter plug and the push button ignition switch plug. It helps to remove the push button ignition switch and reconnect it to the plug (for testing).



3. Remove (2x) Torx t20 screws securing the bottom half of the climate control.



4. On top of the dash, in front of the motorized vents, remove the beauty panel secure by clips with a plastic tool.



5. Remove (2x) Torx t20 screws securing the screen bezel:



6. Using a plastic tool and hook tool, *carefully* pull the trim surrounding the climate knobs towards you. This panel must be pulled straight forwards.



7. Remove (2x) Torx t20 screws beneath this panel (not shown).



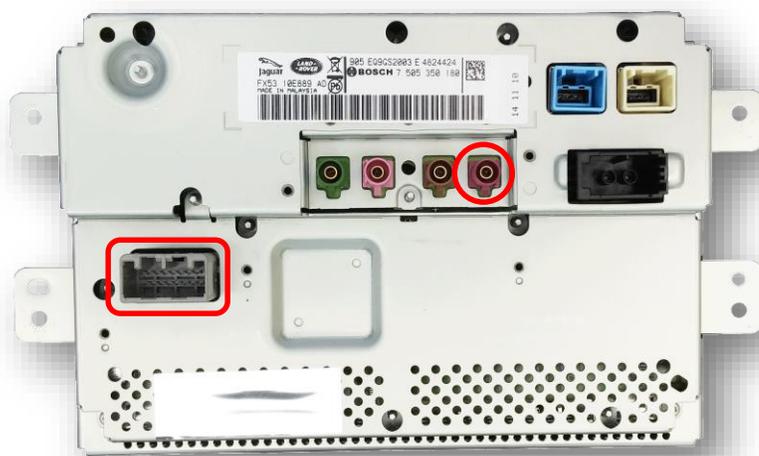
8. Both the climate control and screen surround should now be free, remove these and disconnect all associated harnesses.



9. Remove (4x) Torx t20 screws securing the screen. Disconnect all associated harnesses and set the screen aside in a safe place.



***The connectors being used for this Install are shown here (rear of screen):***



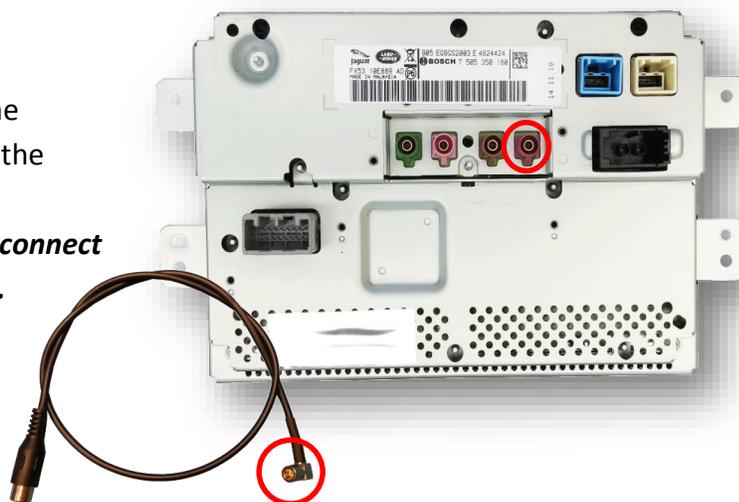
## Module Installation

1. With the screen removed, locate the main 16-pin connector that powers the screen. Connect this plug to the female side of the provided **Plug & Play T-Harness**.



2. Connect the provided **SMB-RCA Adapter** to the screen at the port (typically purple) closest to the M.O.S.T Fiber Optic connector.

**Note: if there is already a connector here, disconnect it and use the provided SMB Adapter instead.**



3. Connect the male end of the provided **Plug & Play T-Harness** back to the monitor at the 16-pin port.
4. After installing your camera(s), run the signal and power through the car to the radio opening.
5. If only installing a single camera, connect the signal RCA directly to the **SMB-RCA Adapter**. When complete, skip to step 7.



**Note: if vehicle possess an OEM reverse camera and you're adding a front camera only, use the provided Fakra-RCA adapter to retain this camera image. See diagram on page 8.**



6. **Optional:** If installing 2 cameras:
  - a. Connect the only **male RCA** from the provided **Plug & Play T-Harness** to the free end of the **SMB-RCA Adapter** (from step 2).
  - b. Connect the signal from the **rear camera** to the **Black RCA** located on the **Plug & Play T-Harness**.
  - c. Connect the signal from the **front camera** to the **Red RCA** located on the **Plug & Play T-Harness**.
7. Connect your camera(s) to power. From the F-TYPE module, **Output 1** provides 12v (+) accessory. **If using this output for 2 cameras, trigger a relay with this wire instead (output only provides 12v @ 1 amp!).**

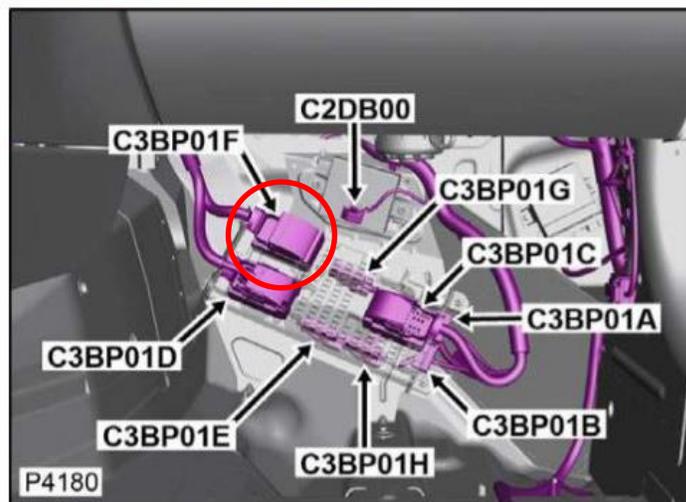
*Note: using an ACC wire to power the camera is required if the user desires forced camera activation.*

8. For 2016 vehicles, reverse does not switch with CAN data. Wire a 12v SPDT relay (not included) like this:
  - a. OEM reverse signal (+) to terminal 85: (**Green/White** wire in junction box, brown connector, see image at right)
  - b. Ground (-) to terminal 86
  - c. ACC or Constant 12v (+) to terminal 87
  - d. **Red INPUT 1** wire (*extend*) to terminal 30.

Description: **Junction box-Central**

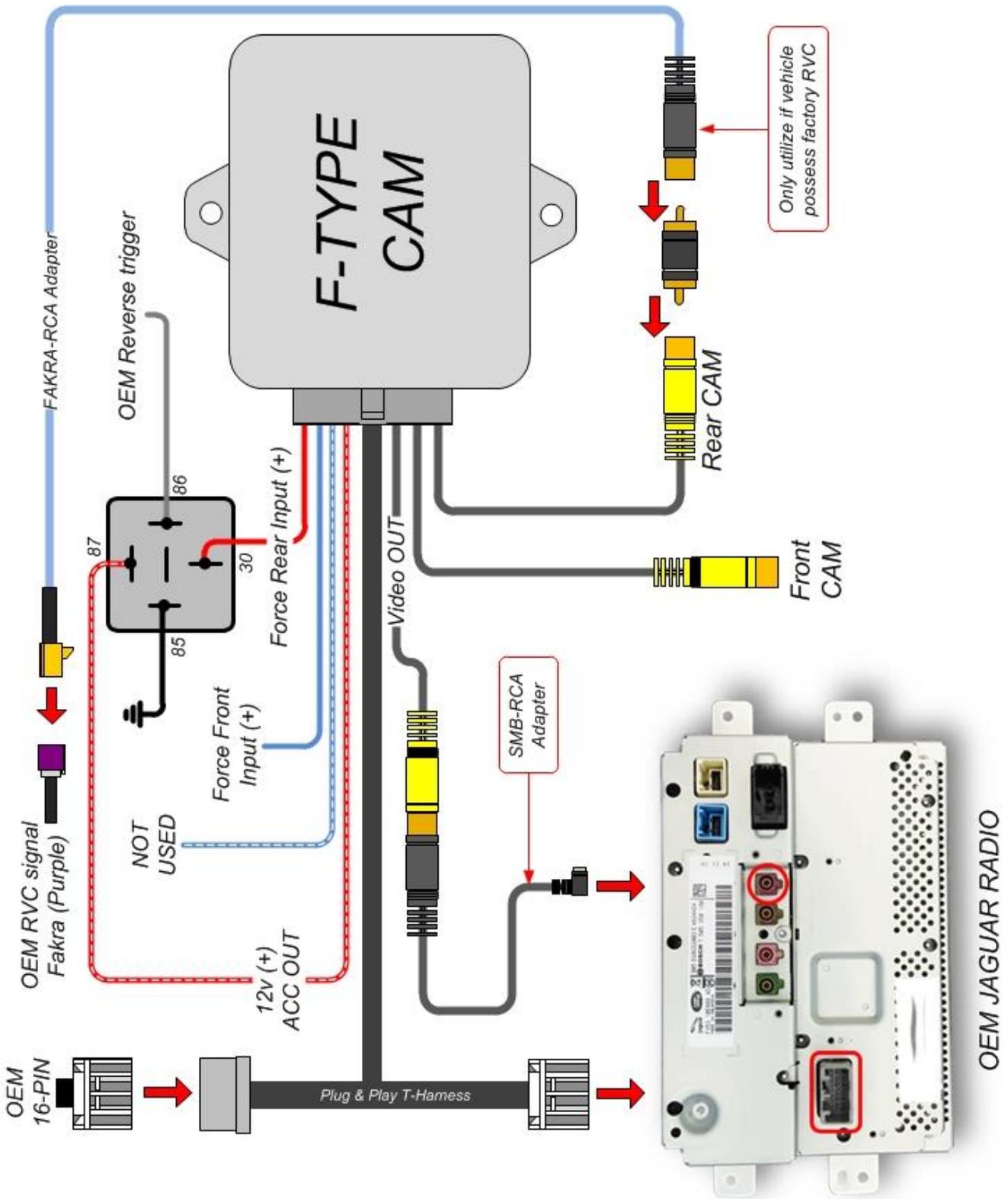
Location: **Behind access panel - Passenger footwell**

Qualifier: **LHD condition illustrated**



9. **Optional:** If forcing the rear camera is desired, connect the **Red INPUT 1** wire to an ACC source **through a toggle** (not included) along with extension to relay (from step 8).
10. Connect the F-TYPE CAM module to the 18-pin connector located on the Plug & Play T-Harness.
11. Reconnect all remaining connectors to the screen and test for proper operation.

Installation Diagram



Agreement: End user agrees to use this product in compliance with all State and Federal laws. NAV-TV Corp. would not be held liable for 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 entertainment only.

## F-TYPE CAM Operation

**Reverse Camera** will automatically display whenever the vehicle is placed in reverse.

**Force Rear Camera** can be activated by sending 12v (+) to **INPUT 1** through a toggle switch.

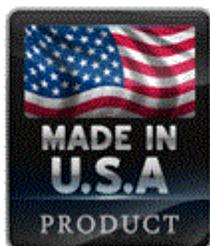
**Force Front Camera** can be activated by sending 12v (+) to **INPUT 2** through a toggle switch.



---

# NAV-TV

INTERFACING THE FUTURE



---

Agreement: End user agrees to use this product in compliance with all State and Federal laws. NAV-TV Corp. would not be held liable for 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 entertainment only.