

# NAV-TV

INTERFACING THE FUTURE

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## Jaguar F-TYPE CAM

Dual Camera interface for select '14+ Jaguar vehicles

*NTV-KIT589*

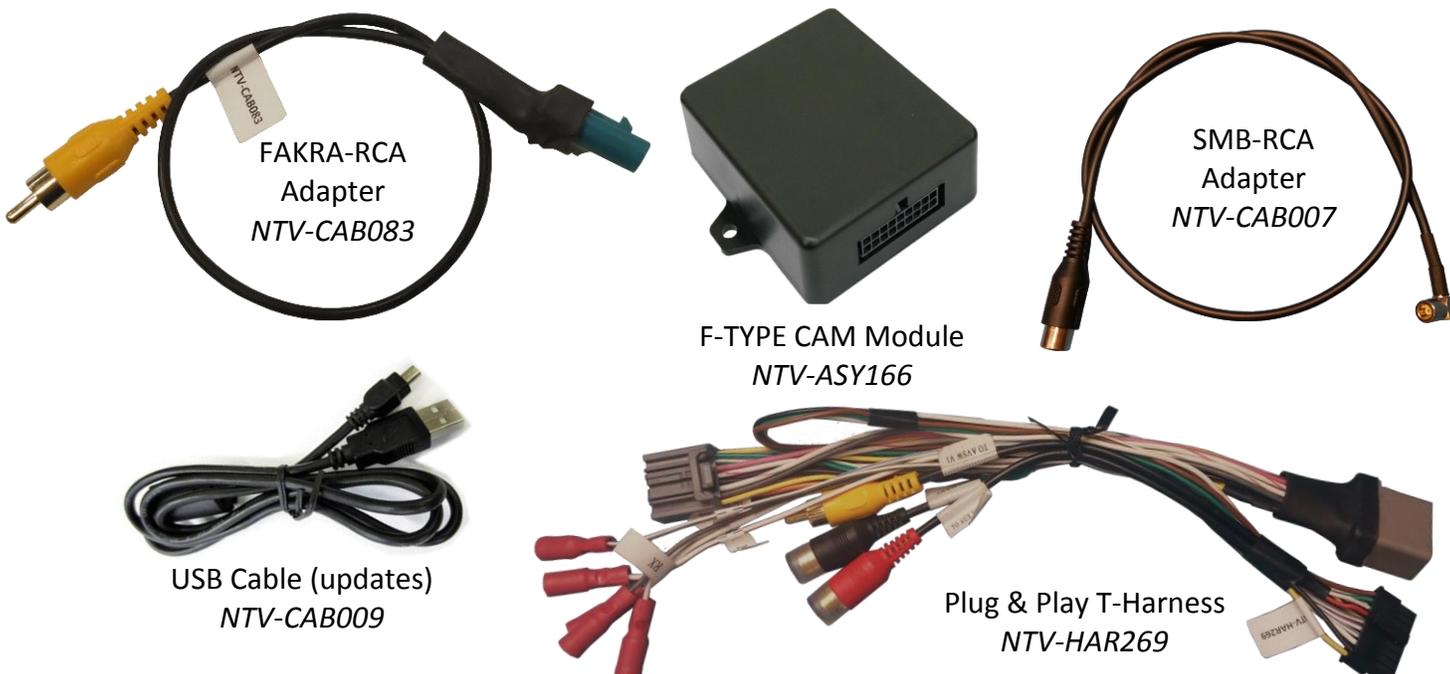


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NTV-DOC207

## Overview

Jaguar F-TYPE CAM interfaces 2 cameras (front & rear) and enables video and navigation control in motion (if equipped). Forcing either camera to display is activated via the factory touch screen or optional wired inputs. This interface is currently only compatible with the 2014+ F-Type.

## Kit Contents



## F-TYPE CAM Pinouts

PIN #	Description	Color
1	12v (+) constant input	Yellow
2	Input 1 (+): <b>force rear camera</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	Output 2 <b>REVERSE (+)</b>	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**

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## 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).



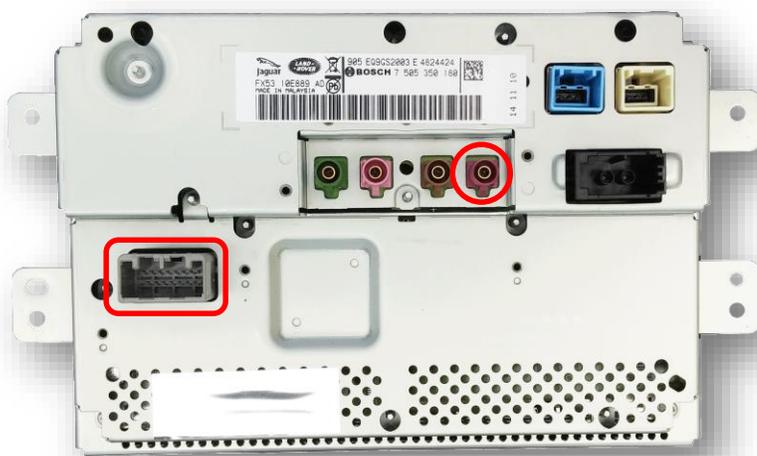
8. Both the climate control and screen surround should now be free, remove these and disconnect all associated harnesses.



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):***



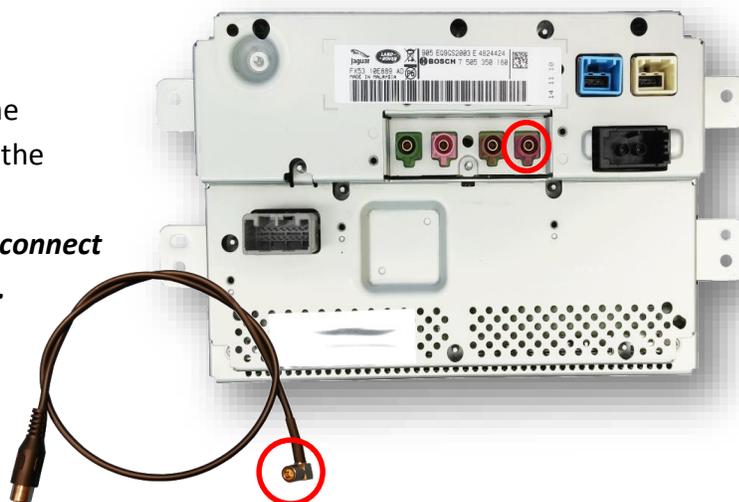
## Module Installation

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. Connect the F-TYPE CAM module to the 18-pin connector located on the Plug & Play T-Harness.
9. Reconnect all remaining connectors to the screen and test for proper operation.



## F-TYPE CAM Operation

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

**Video & Nav Control in Motion** is always enabled, no user interaction is required. Video's will playback in any gear from the DVD player (if equipped) and the USB port.

**Force Rear Camera** can be activated by sending 12v (+) to **INPUT 1** through a toggle switch (not included), or using the touch screen (detailed below).

**Force Front Camera** can be activated by sending 12v (+) to **INPUT 2** through a toggle switch (not included), or using the touch screen (detailed below).

**Forcing cameras via OEM touchscreen:**



1. Select '**Extra Features**'



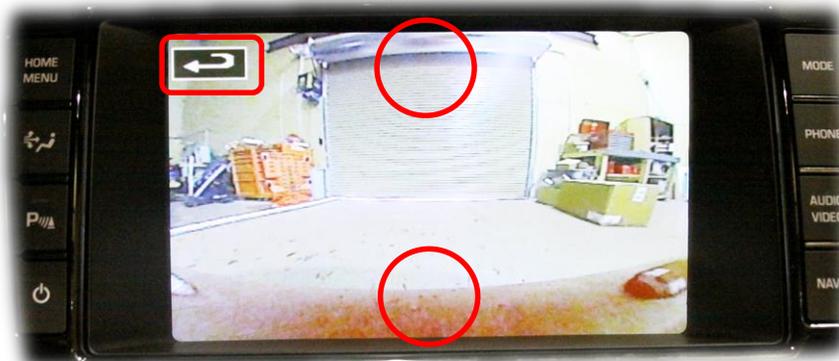
2. Select '**Cameras**'



3. Selecting '**Settings**' will bring you into **Force Camera Mode**.

Once in **Forced Camera Mode**, press the *top-middle* of the screen to view front camera, or the *bottom-middle* of the screen for rear camera. This action will flip between both cameras.

To clear, touch where the clear button is normally (when navigating menus)



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