

NAV-TV

INTERFACING THE FUTURE

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MOST-AUX

Fiber-optic AUX input for select MOST vehicles
NTV-KIT001/002/007/008/143/144/151/152



MOST[®]
I N T E R F A C E



BHM
01/26/15
NTV-DOC006

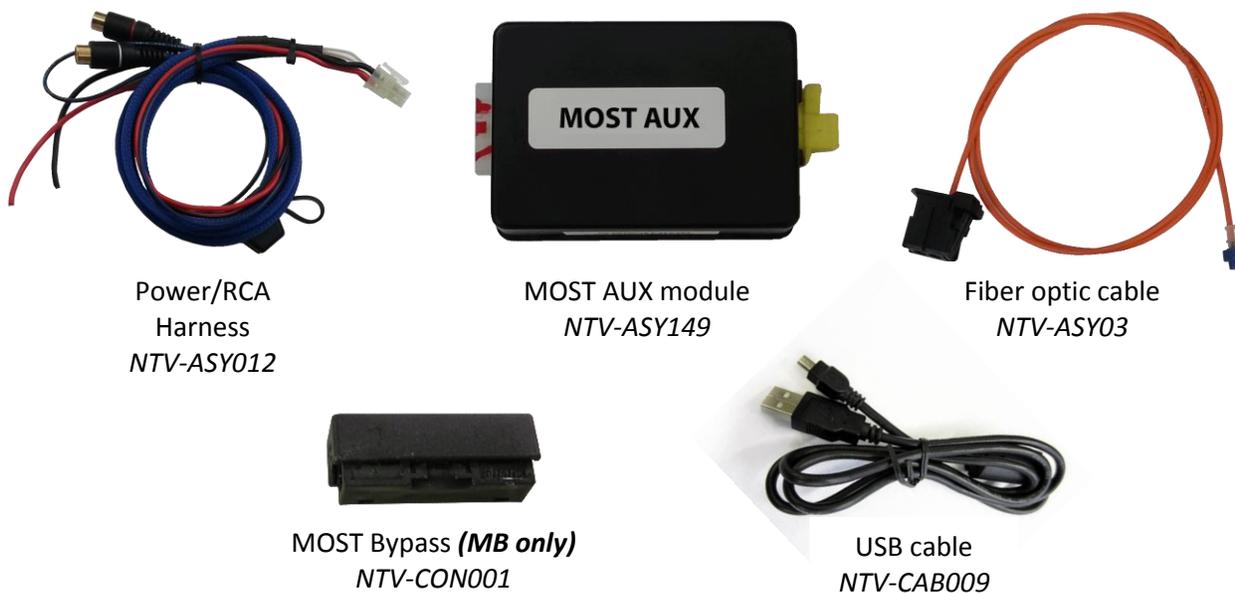
Overview

The NAV-TV MOST AUX module is a M.O.S.T. fiber optic auxiliary audio input interface that introduces audio into select MOST fiber optic equipped vehicles with no degradation in sound quality. There are TWO HARDWARE PLATFORMS: TYPE 1 & TYPE 2 THAT ARE NOT INTERCHANGEABLE. Although you cannot use a Type 1 hardware in a Type 2 vehicle (and vice versa), the software coding and installation is the same for both. The following chart lists compatible vehicles and platforms:

Vehicle	Compatible Interface	Hardware TYPE	Manual Page
Aston Martin	MOST-AUX Aston	1	4
Audi	MOST-AUX Audi	1	5
BMW	MOST-AUX BMW	1	5 & 6
Mercedes	MOST-AUX MB	1	7
Porsche	MOST-AUX POR	1	8 & 9
Jaguar	MOST-AUX JAG	2	6
Land/Range Rover	MOST-AUX RR	2	7
Volvo	MOST-AUX Volvo	2	9

This module can be installed in any position within the fiber optic loop.

Kit Contents

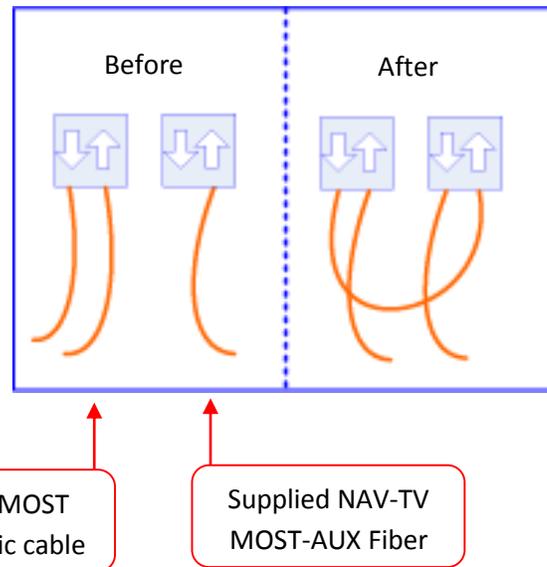


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Installation Overview (ALL vehicles)

- Black wire: Connect to chassis ground.
- **Red** wire: Connect to 12v Constant
- **Blue** wire: Supply 12v + (**through a toggle switch**) to activate AUX input
- Fiber optic cable configuration (see diagram at right):

MOST-AUX MB: This specific kit (only) will include a fiber optic bypass loop. In this car, the CD changer **MUST** be bypassed for the MOST-AUX to function properly.



General Install notes:

- Do not grab power from the CD Changer's power harness.
- Grabbing power from the radio's harness *may* cause problems as well.

MOST AUX Note: For most vehicles, this kit will work right out of the box. However, some vehicles will require setup adjustments via the USB and the Nav-TV USB updater program. The following 7 pages will cover the qualifications and setup walk-throughs for each car, if necessary.

Installation of the Nav-TV USB Updater:

Using Windows XP or Windows 7:

- 1) Download the device driver form navtv.com>support>downloads at the top of the screen in BLUE that says updated driver and save it to A NEW FOLDER ON THE DESKTOP. .
- 2) Install the driver. It will ask you if you want to update the driver during installation. Click yes and proceed through all installation steps. If prompted to restart the computer do so at this time. If not proceed to 3.
- 3) Download and unzip the proper file packet for the corresponding NAV-TV product (follow the exact same directions you would follow if the computer did not have DEI© software on it)
- 4) Launch the USB Updater program and plug in the NAV-TV device to an available USB port.
- 5) If it recognizes right away you are done. If not, proceed to step 6.

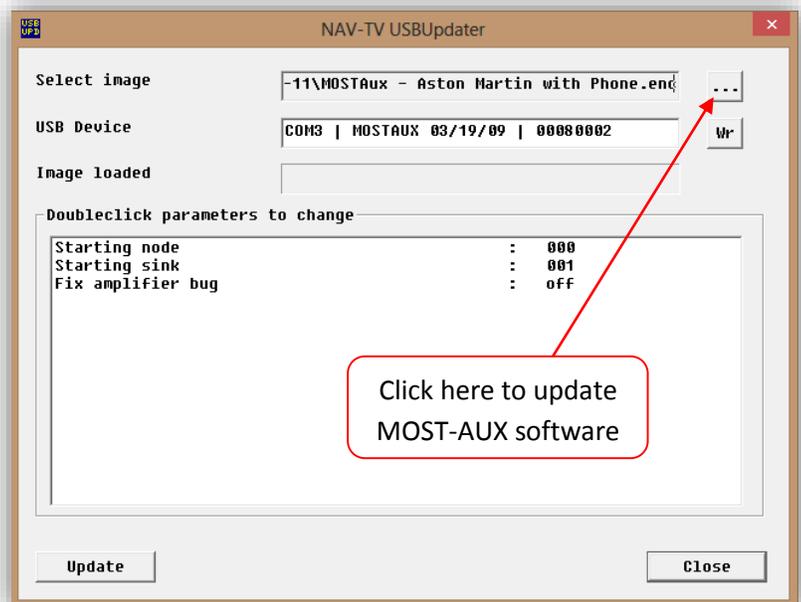
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- 6) With the device still plugged into the computer go to Start>"right click" on Computer, select "MANAGE" > select "Device Manager" > select the arrow to the left of "Universal Serial Bus Controllers" and leave it expanded.
- 7) With the USB expanded write down all the available devices.
- 8) Unplug the NAV-TV module from the USB and one of the available devices will disappear. This is the NAV-TV module. Plug it back in to the USB after identifying it.
- 9) Once the NAV-TV module has been identified right click on it and select "update driver software" > then "browse my computer for driver software" > then select "Browse"> desktop> select the folder you saved the driver software in step 1 and then select "ok".
- 10) If you have done this correctly then the USB Updater program will show the NAV-TV device in the USB Device window of the NAV-TV Updater.
- 11) You will also notice that with the NAV-TV device plugged in in the "Computer Management" Window that the NAV-TV device does not show up under USB controller but now it shows up in the Ports (COM & LPT) as "Silicon Labs CP210x USB to UART Bridge" with a COM port number in brackets to the right.. AKA (COM3) for example.

Aston Martin

-The MOST-Aux Aston should work out of the box, however if there is a phone installed in the car (not the 'TEL' button on the dashboard, an actual phone), you will need to program the module for phone presence. You can find the alternate files in the **extracted** (not zipped) MOSTAux-USB Updater folder.

If this file fails, try flashing the JAG file and retest.



Audi

Qualifier:

- The MOST-Aux Audi will only work with the MMI system-equipped Audi's.



BMW

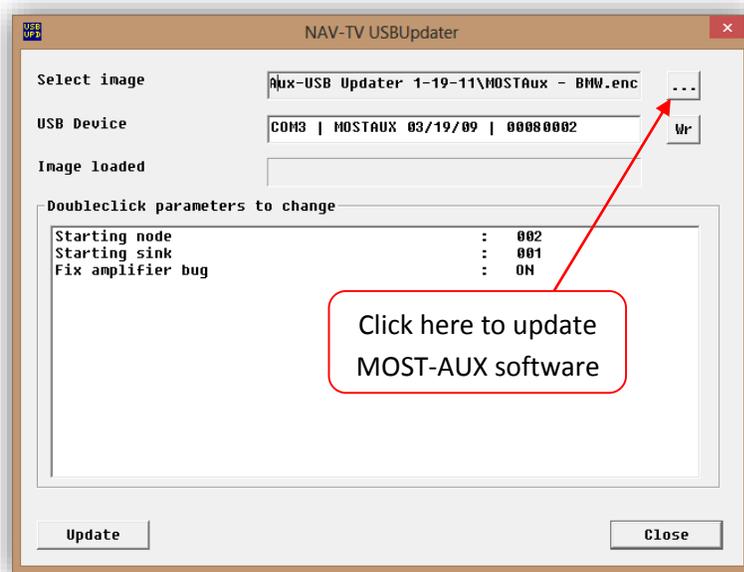
For BMW 7 series only: Skip ahead to step 1 (skip trying alternate files).

Qualifier: For 7 series only, if there is an additional amp mounted on the driver's side rear deck lid (look in trunk), the MOST-Aux BMW is not compatible.

Some BMWs may require additional adjustment to the MOST-Aux for proper functionality.

For all BMW's except 7 series:

Connect the MOST-Aux BMW to the USB Updater and wait for it to load properly. Load 'MostAux-BMW Alternate-No Amp.enc' file and update it. If that fails, try changing Amplifier fix to ON, and try again. If that fails, load the 'MostAux-BMW.enc' file and try that.



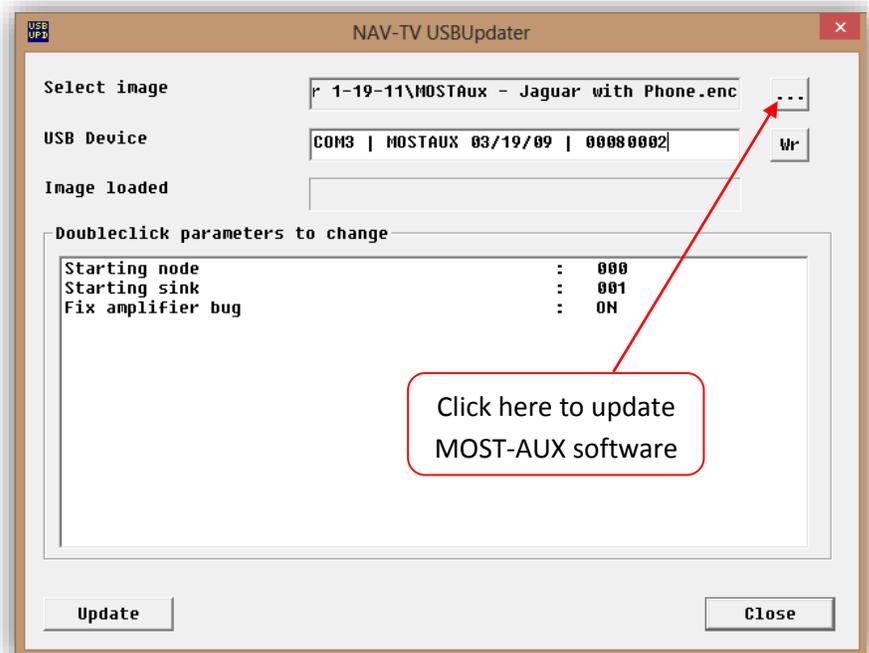
If the above (BMW software) fails, follow this procedure (be sure to take notes while doing this, to avoid omitting a potential working fix!):

1. Start with Node 0, Sink 1, Fix 'ON'. Try it.
2. If nothing happens when you supply 12v to the Blue wire, then increase the 'node' (one step at a time).
3. If the audio mutes, but there is no input audio, increase the Sink (one step at a time).
4. If you get to Sink 5, and there is still no audio, then set the Sink to 1, and increase the Node (one step at a time).
5. If you get to Node 6, and there is still no audio, call Nav-TV tech support at (866) 477-3336.

Jaguar

Qualifier: The Jaguar must have a factory installed fiber optic amplifier in order for the MOST-Aux Jag to work. For a quick easy test, disconnect a fiber plug anywhere you can find one in the car, if audio disappears then there is an amplifier present.

- The MOST-Aux Jag should work out of the box, however if there is a phone installed in the car (not the 'TEL' button on the dashboard, an actual phone), you will need to program the module for phone presence. You can find the alternate files in the **extracted** (not zipped) MOSTAux-USB Updater folder.



Land Rover (Range Rover)

The MOST-Aux RR will work out of the box for all compatible Land & Range Rovers, there are no adjustments necessary.

Mercedes

Qualifiers:

- If the Mercedes has a CD changer, the MOST-Aux MB will work right out of the box, but it will be necessary to bypass the CD changer. Use the fiber optic bypass included in this kit to bypass the changer. You will lose all CD changer functionality when installing this product. Remember to remove CD's before disconnecting power!
- Higher end models (CL, CLS, E, S, SL, SLK, etc) with a COMMA work with this interface.
-
- Mercedes with the Audio 20 (monochrome) radio face are only compatible with the MOST-Aux MB if they possess a **telephone, amplifier or satellite** radio connected through MOST fiber.



See steps below for bypassing instructions



If the Mercedes does not qualify by the above standards, it is still possible to install, but it will need an extra fiber cable and to be programmed at the dealer. Contact Nav-TV tech support for details at 1-866-477-3336.

To bypass the factory Mercedes CD Changer:

1. Remove all CDs from the changer.
2. Find the (typically orange) fiber optic connector plugged into the changer, and remove it.
Disconnect the outer clip from the connector from the inner connector, if applicable.
3. With a straight pick, push the blue plastic pin in on the inner connector (only one side will allow this).
4. With a straight pick, carefully pry the lock for each orange fiber line to free each from the inner connector.
5. Connect each (now free) end of the fiber lines into the *provided fiber coupler*. Once both are inserted, clamp the fiber coupler together.

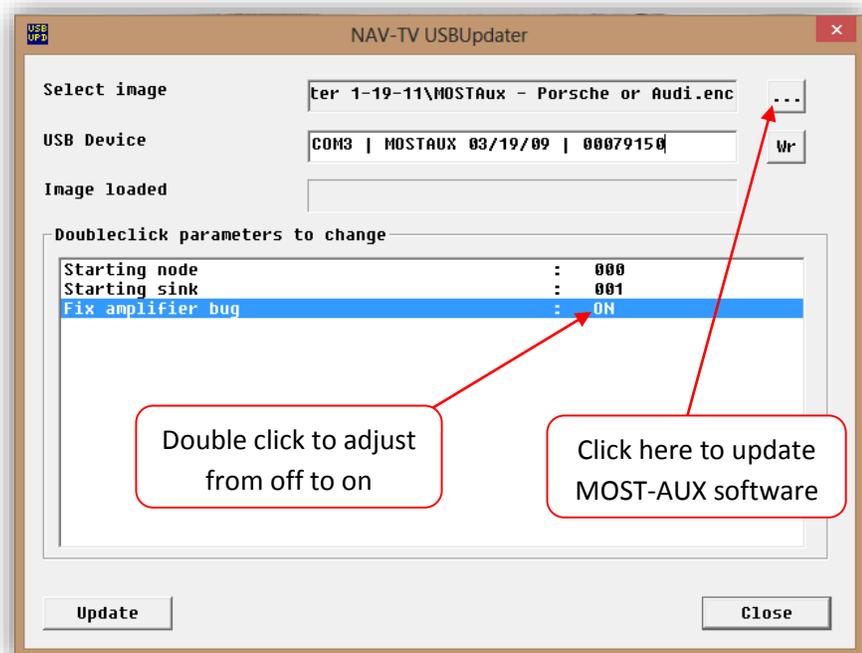


Porsche

Qualifiers:

- If the Porsche has the BOSE system, the kit will work out of the box.
- PCM3 and PCM3.1 radios are not compatible (only 04-08 Radios)
- If the Porsche has a PCM 2 radio (NON-BOSE), then:
 - It must possess an external device, such as a CD changer, satellite, **external** navigation or phone in order to function properly, or
 - It needs an extra fiber cable and to be programmed at the dealer.
- If the Porsche has the base model radio, it may still work:
 - If it has a cd changer, it *will* get replaced (bypassed).
 - If no changer, it must have some other external device, or receive dealer programming. Contact Nav-TV tech support for details at 1-866-477-3336.
- If the Porsche is an '04, it will need an additional 2004 fiber kit.

If the MOST Aux POR does not respond to the blue activation wire, reprogram the module with the 'Porsche or Audi' file, and turn on the 'Fix amplifier bug' flag in the USB updater. You can find the alternate files in the **extracted** (not zipped) MOSTAux-USB Updater folder.





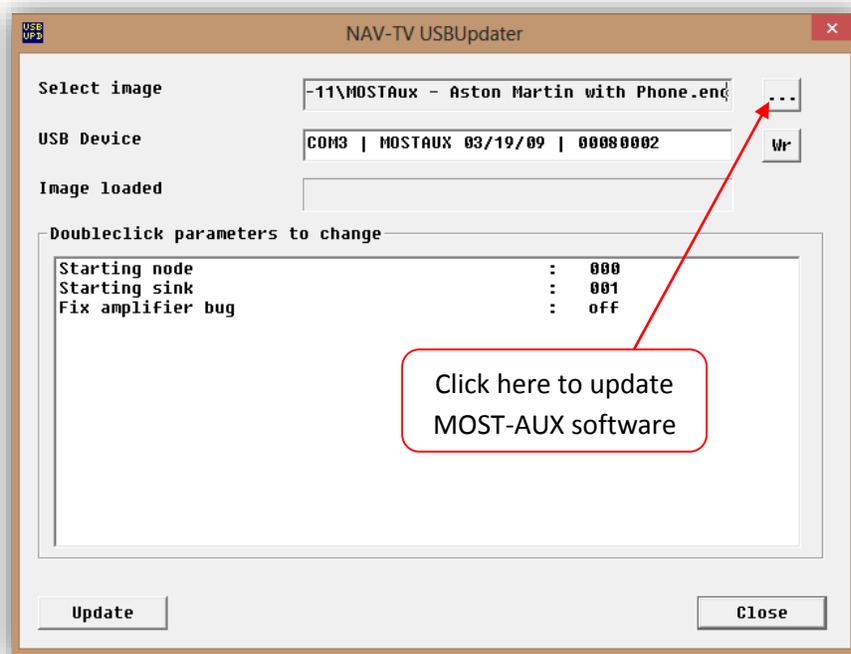
PCM 2 Radio
(compatible)



PCM 3/3.1 Radio
(not compatible)

Volvo

-The MOST-Aux Volvo should work out of the box and uses the same file as the Aston Martin. If there is a phone installed in the car (not the 'TEL' button on the dashboard, an actual phone), you will need to program the module for phone presence. You can find the alternate files in the **extracted** (not zipped) MOSTAux-USB Updater folder.



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