

NAV-TV

INTERFACING THE FUTURE

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MBUX-VIM

Video in Motion interface for Mercedes MBUX systems

NTV-KIT954



2020 GLE

Overview

The MBUX-VIM adds Video in Motion (USB playback) and NAV Control in Motion to 2020 Mercedes GLE vehicles equipped with MBUX. Installation is performed entirely at the radio and VIM is user-activated using a factory steering wheel button (mute) or a wire trigger. *Note: other MBUX vehicles may function, compatibility will be updated when validated.*

Kit Contents



Power/CAN harness
NTV-HAR128



MBUX-VIM Module
NTV-ASY245



USB Cable (updates)
NTV-CAB009

W222-VIM pin outs

Pin #	Description	Color
1	Constant 12v (+) INPUT	Yellow
2	INPUT 1 VIM Activation	Red
3	INPUT 2 Not Used	Blue
4	INPUT 3 Not Used	Orange
8	CAN HI (radio side)	White/Blue
9	CAN HI (car side)	White/Brown
10	Ground (-) INPUT	Black
11	OUTPUT 1 ACC 12v (+)	White/Red
12	OUTPUT 2 Reverse 12v (+)	White/Blue
17	CAN LO (radio side)	Blue
18	CAN LO (car side)	Brown

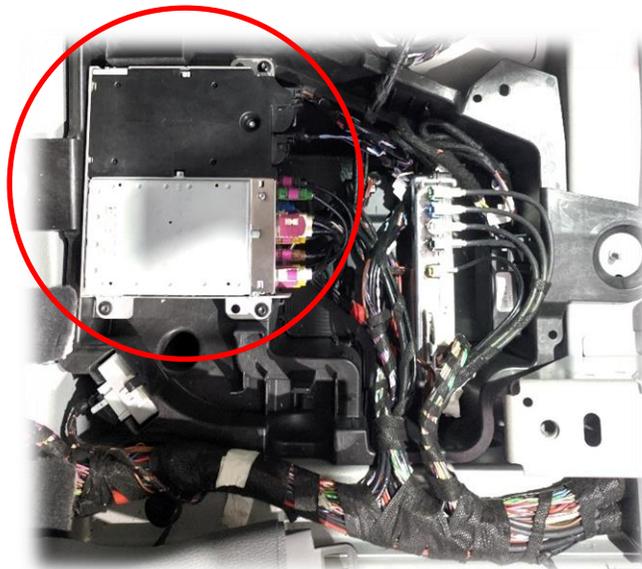


Wire side

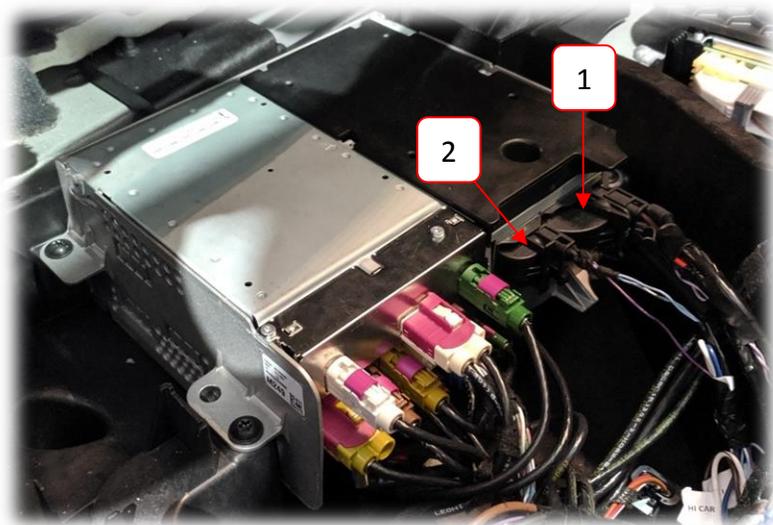
MBUX-VIM Radio Access (GLE)

The entire MBUX-VIM installation happens at the radio tuner, located under the passenger seat. Other vehicles, the radio tuner may be located behind the screen. For GLE:

1. Remove the passenger seat. (4x) 10mm hex bolts must be removed and the seat can be lifted up and must be either securely propped up (backwards) or removed entirely (must remove the seat-motor harness to remove entirely, at which point it is recommended to first disconnect the battery).
2. Pull passenger carpet up out of the way or remove from passenger side footwell (requires removing kick-panel and lower glove-box panel).
3. Remove plastic panel underneath carpet (directly beneath seat). It is held in place with multiple 10mm nuts. This will expose the NTG6 radio tuner module (right):



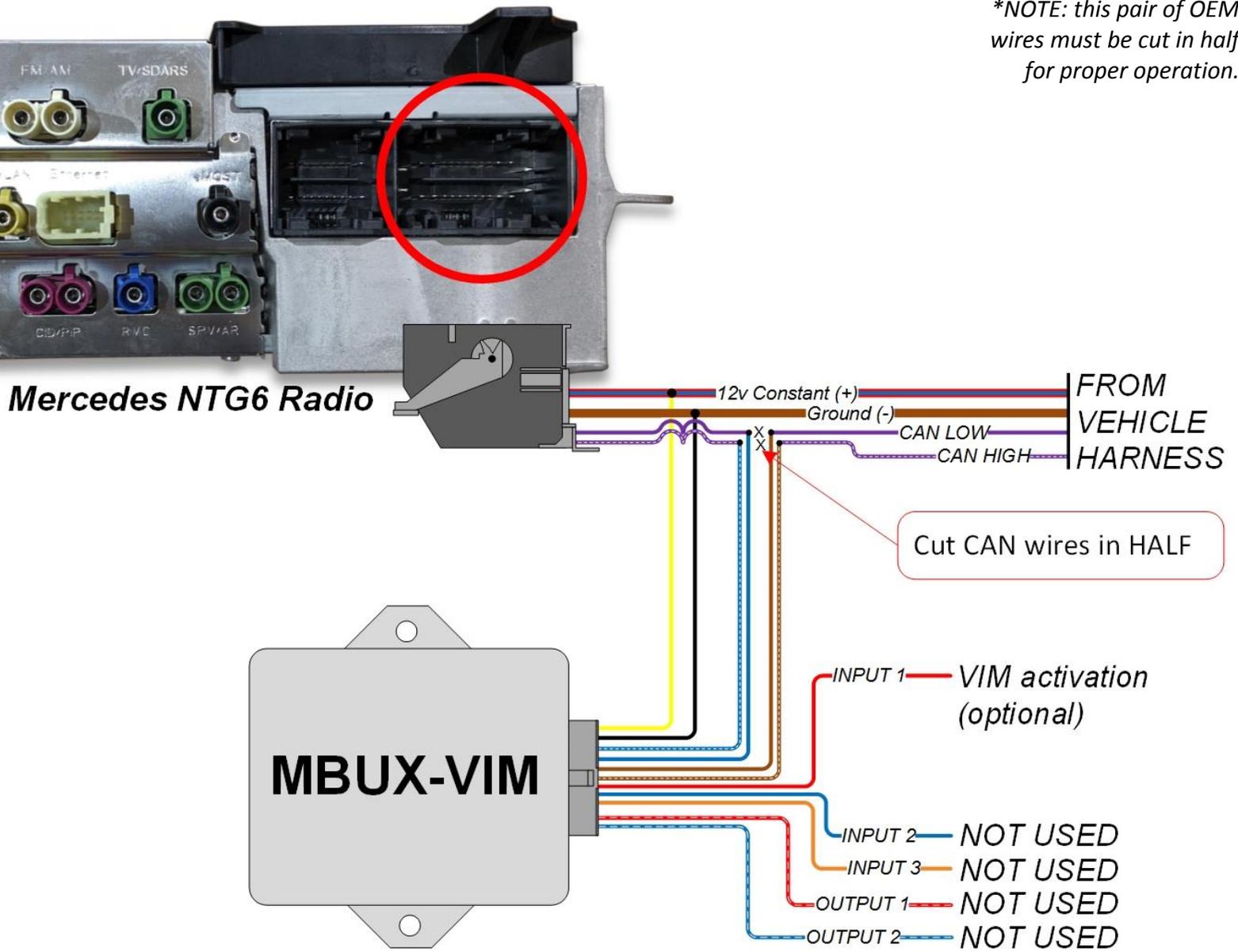
4. Remove the radio main power connector (1) as shown below. This may require removing connector (2) first.



5. Wire the provided (HAR128) power/CAN harness according to the chart/drawing below. *NOTE: you must CUT a pair of vehicle CAN wires in half.*

Interface wire	PIN, Color	Vehicle wire	PIN, Color
Ground (-)	10, Black	Ground (-)	1, Brown
12v (+)	1, Yellow	12v (+)	14, Red/Blue
CAN HIGH (radio)	8, White/Blue	CAN HIGH (radio)	7, Violet/White (radio side)*
CAN HIGH (vehicle)	9, White/Brown	CAN HIGH (vehicle)	7, Violet/White (vehicle side)*
CAN LOW (radio)	17, Blue	CAN LOW (radio)	20, Violet (radio side)*
CAN LOW (vehicle)	18, Brown	CAN LOW (vehicle)	20, Violet (vehicle side)*

**NOTE: this pair of OEM wires must be cut in half for proper operation.*



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.

MBUX-VIM Operation

To activate VIM, double tap the MUTE button on the steering wheel. Alternatively, sending 12v power to INPUT 1 will activate VIM as well. This feature will recycle upon every ignition key cycle. Alternatively, sending 12v (+) to INPUT 1 (red) will activate/deactivate VIM as well (add toggle).

