

# NAV-TV

INTERFACING THE FUTURE

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## W222-VIM

Video in Motion interface for '14+ S-Class vehicles

*NTV-KIT618*



BHM  
05/17/19  
NTV-DOC232

## Overview

The W222-VIM adds Video in Motion and Navigation Control in Motion to the 2014+ Mercedes S-Class. Installation is performed in the driver's kick area, above the under-dash panel. This kit is not plug & play at this time.

## Kit Contents



W222-VIM Harness  
NTV-HAR128



W222-VIM Module  
NTV-ASY166



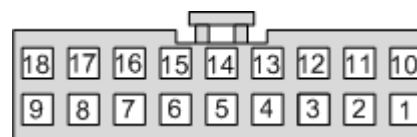
USB Cable (updates)  
NTV-CAB009

## W222-VIM pin outs

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

For best reliability, *solder* all wires.

\*RAP = Retained ACC Power



Wire side

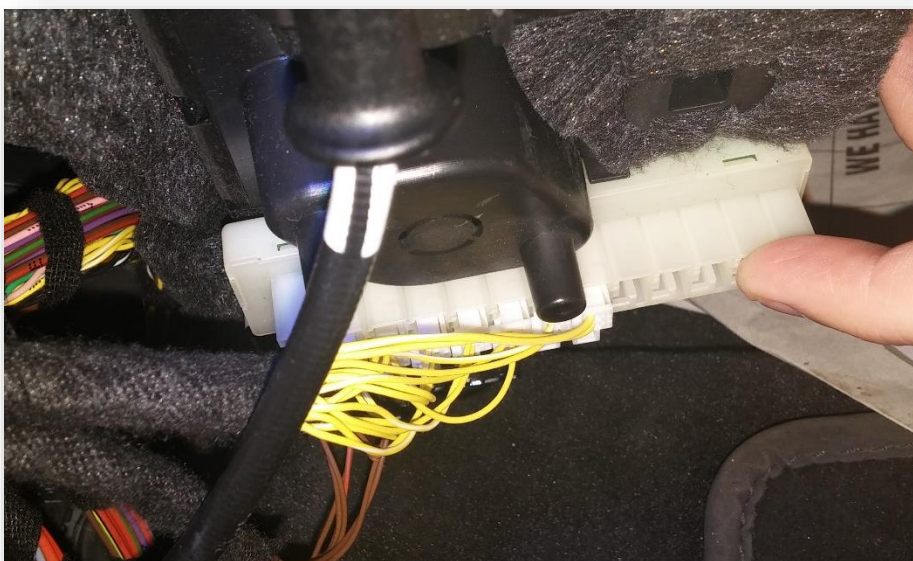
## W222-VIM Installation

1. Installation is performed near the driver's kick panel, above the under-dash panel (find red hood-release handle):

Constant power can be found here, behind fuse panel

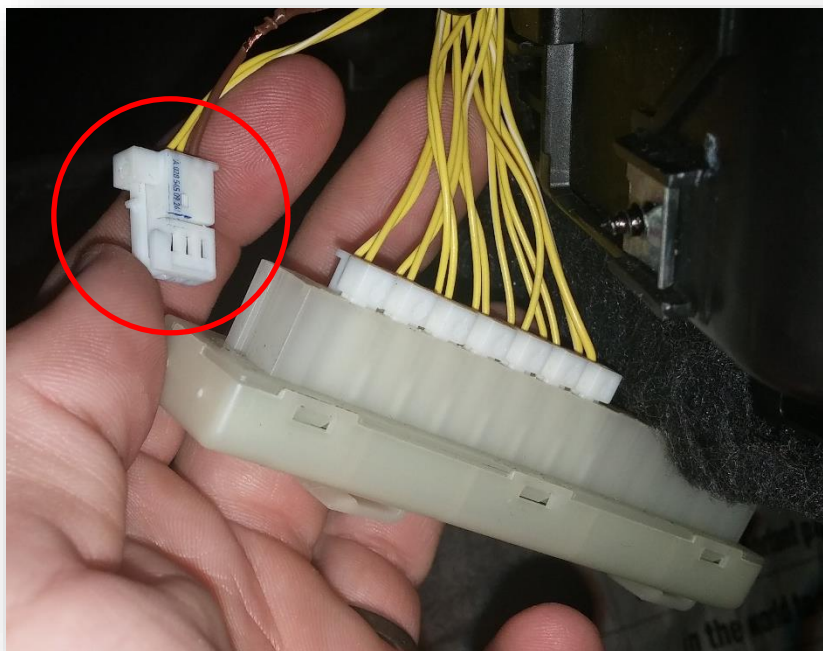


2. Drop the under-dash panel (Torx screws) to access the CAN-BUS BANK (white plastic tray housing multiple 2/3-pin connectors) which is clipped to the panel:

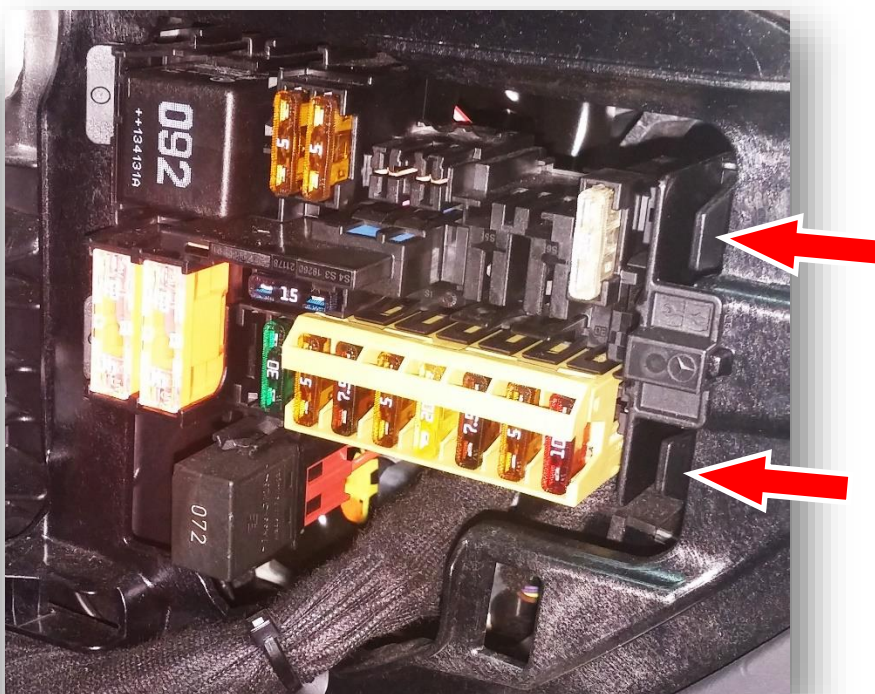




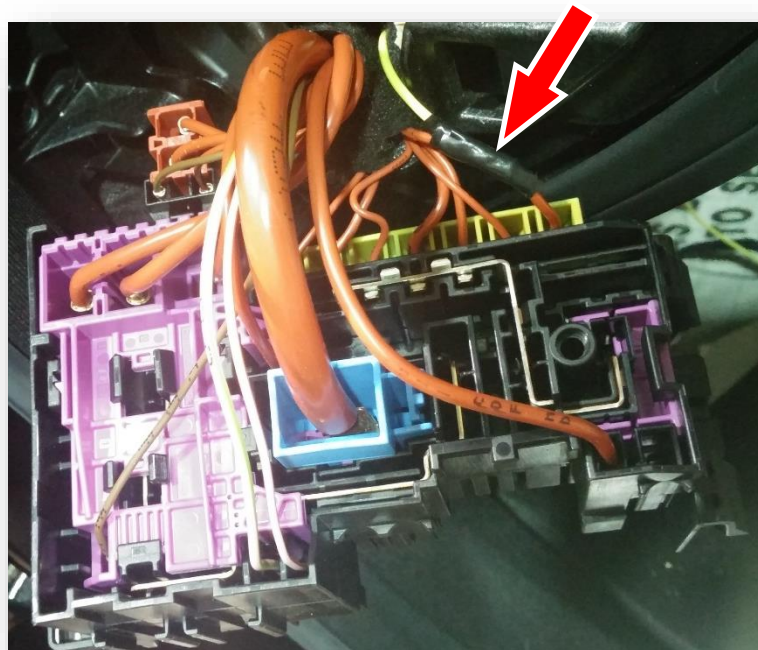
3. Look for the *only* 3-pin connector, it will be on the end. This is the connector in which the CAN wires must be intercepted. Disconnect this plug.
4. Grab the provided Power/CAN harness, connect (splice) the **black** ground (-) wire to the **brown** ground (-) wire in this plug.



5. Behind the driver's dash side-panel is a fuse block. Remove the fuse block by pressing the 2 release clips fully and pulling:



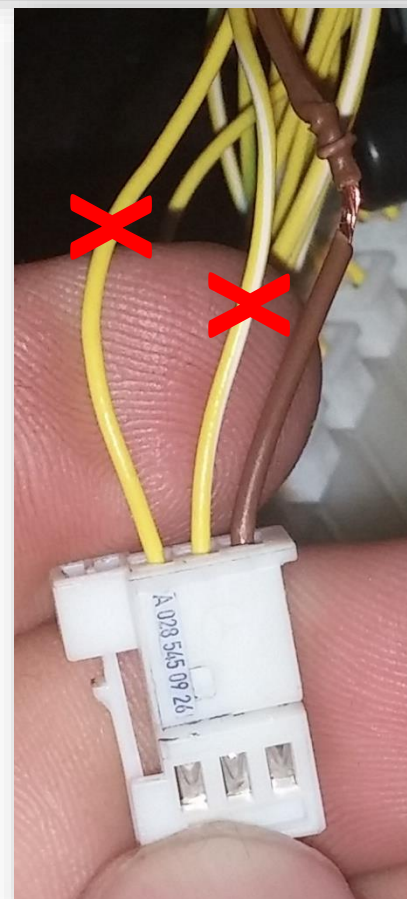
6. With the fuse block pulled out, splice the **yellow wire** from the provided Power/CAN harness to a constant 12v (+) wire:
7. Replace the fuse block into the sub-dash once complete.



8. Locate the **yellow & yellow/white** wires in the 3-pin CAN plug from step 3 and **cut these wires in half. Leave enough room to solder to each side of each wire when doing this.**
9. Solder the following wires in the proper direction to each cut wire:

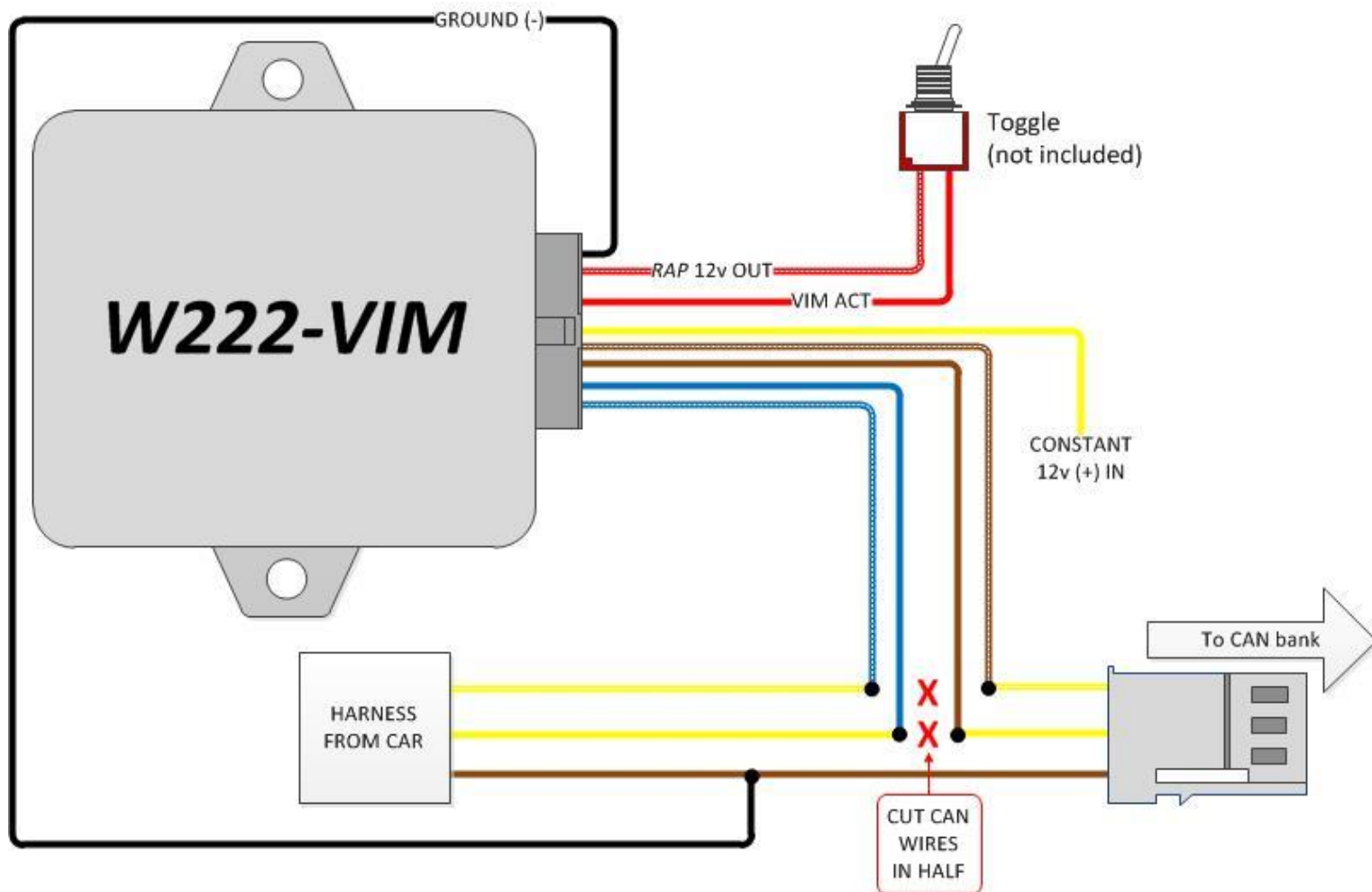
W222-VIM wire	PIN #	Connect to CAR's	Direction
White/Blue	8	White/Yellow	Harness Side
White/Brown	9	White/Yellow	Plug Side
Blue	17	Yellow	Harness Side
Brown	18	Yellow	Plug Side

10. Insulate each wire and reconnect the 3-pin plug to the CAN-BUS bank.



11. **Optional:** Connect **INPUT 1 (red)** to a 12v source **through a toggle** for VIM activation. This connection is not necessary if the user wishes to use the OEM button for VIM Activation.

12. Proceed to 'W222-VIM Operation'.





## W222-VIM Operation

To enable Video in Motion, **Press and HOLD** the **MUTE Button** on right side of the steering wheel for 3 full seconds. The easiest way to test functionality is to:

- Play a video on the main screen while in park
- Place the vehicle in Drive, the video will disappear
- Press and hold the MUTE button on the steering wheel. The video should return as if you were in park.

*VIM activation is reset upon every key-cycle, you must enable VIM every time you start the car.*



*\*NOTE: For the MUTE button to activate the VIM function, the cluster must be in AUDIO source mode (show FM/SD info on the cluster LCD, etc).*