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

MBUX-RVC

NTV-KIT901



Overview

The MBUX-RVC adds rear camera & front camera to the factory 7" & 10" equipped in 2019+ Mercedes A-Class, C-Class and Sprinter. This interface features active moving guidelines and front camera selectable using either OEM button or preset timer.

Kit Content







iR Remote

iR Remote sensor

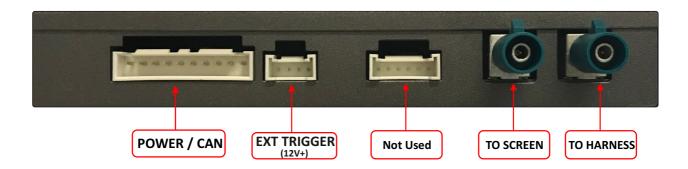


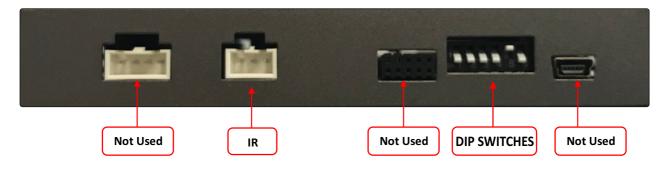


Video Cables



Interface

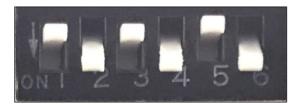




Dip Switch Settings

Dip SW:	1	2	3	4	5	6
UP	F CAM OFF	SCREEN RES	Keep UP	OEM RVC	SCREEN RES	
DOWN	F CAM ON	SEE BELOW		ADDING RVC	SEE BELOW	Keep DOWN

7" SCREEN



10" SCREEN



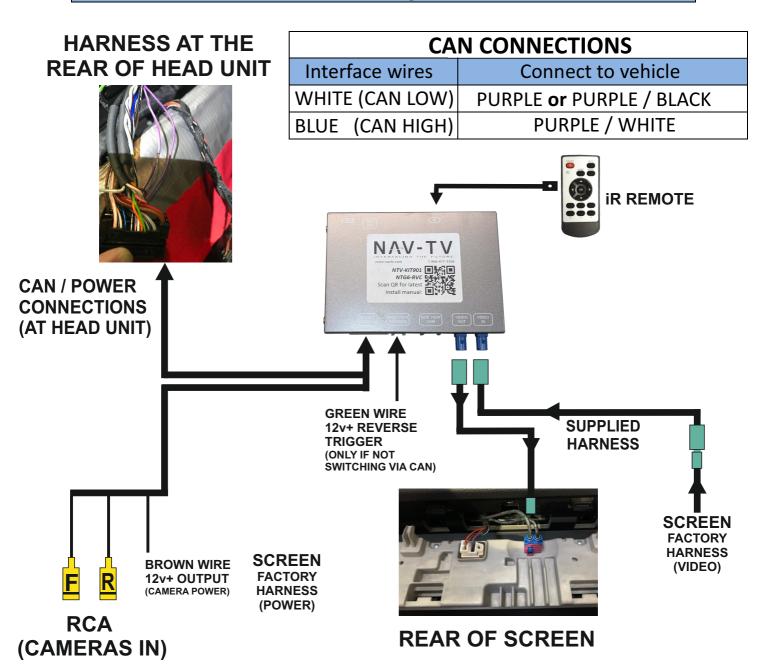
FOR FRONT CAMERA ENSURE "DIP SWITCH 1" IS IN THE DOWN POSITION

*Note: Remove power to the unit prior to making adjustments to the dip switches.

Installation

This installation requires access to the rear of the screen and the radio (located above the drivers footwell). Certain screws and panels must be removed in order to access the sub-dash areas. Continue below for further installation instructions.

Installation Diagram



WIRE FUNCTIONS

INTERFACE	<u>FUNCTION</u>		

RED - ACC 12v+

BLACK - GND

BROWN - 12v+ OUTPUT (CAMERA POWER)

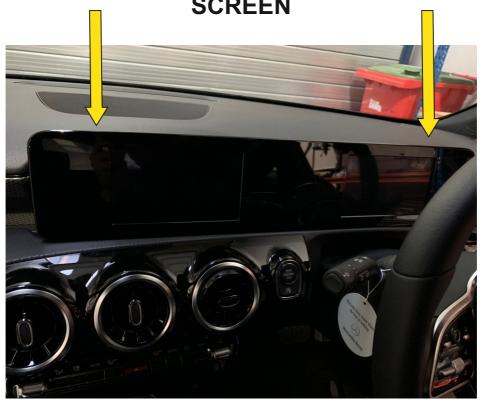
GREEN - 12v+ REVERSE WIRE (only if it will not switch via CAN)

WHITE - CAN LOW
BLUE - CAN HIGH

NOTE: for Manual gearbox cars you will have to use the green wire to trigger reverse.

HOW TO REMOVE THE DASH

REMOVE THE 2 X T20 SCREWS AT THE REAR OF THE SCREEN



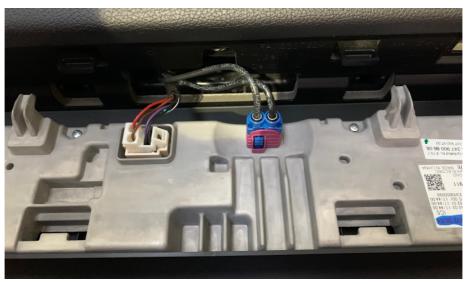


THE SCREEN WILL JUST LIFT UP ONCE YOU HAVE REMOVED THE 2 X T20 SCREWS, THIS WILL THEN GIVE YOU ACCESS TO THE REAR OF THE SCREEN

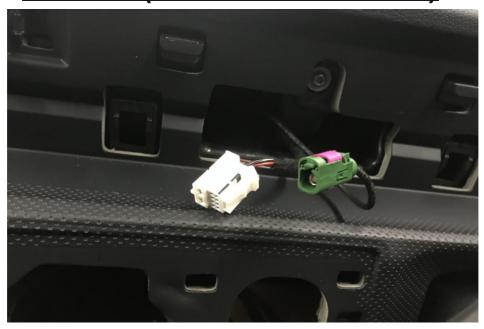
LVDS CONNECTIONS (VIDEO)

THERE ARE 2 DIFFERENT TYPES OF 7" SCREENS FOR THE A CLASS. THE CONNECTIONS ARE AT THE SAME PLACE (REAR OF THE SCREEN). HOWEVER AS YOU SEE FROM THE FOLLOWING PHOTOS THE PLUGS ARE DIFFERENT.

TYPE 1 (2 Fakra connectors)

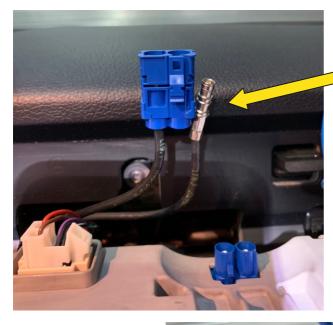


TYPE 2 (1 Fakra connector)



Installation

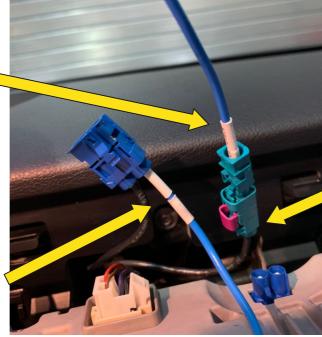
TYPE 1 (2 Fakra connectors)



REMOVE THE FAKRA FROM OEM PLUG

CONNECT THE
SUPPLIED
CABLE (TO
HARNESS - IN)
TO THE OEM
HARNESS

CONNECT TO SUPPLED
CABLE (TO
SCREEN - OUT)
TO THE OEM
PLUG



CONNECT THE
OEM CABLE
THAT WAS
REMOVE FROM
THE OEM PLUG
TO THE
SUPPLIED
HARNESS
USING THE
PLASTIC FAKRA
HOUSING.



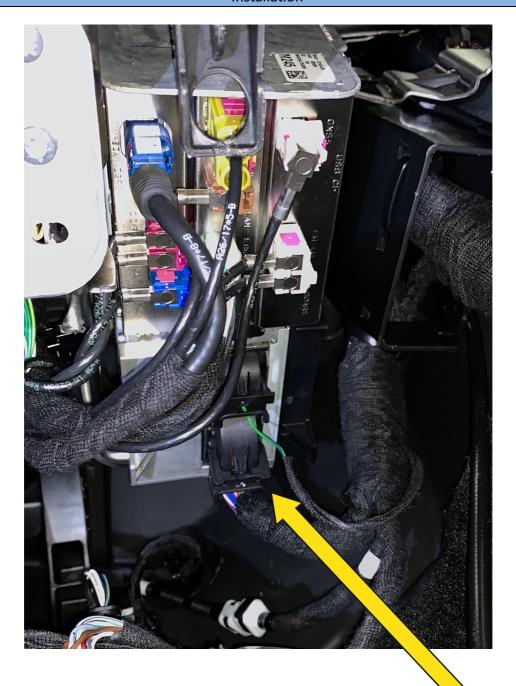


Installation



THE HEAD UNIT IS LOCATED UP IN THE DASH ABOVE THE DRIVERS THROTTLE. DROP THE UNDER DASH PANEL TO GAIN ACCESS

Installation



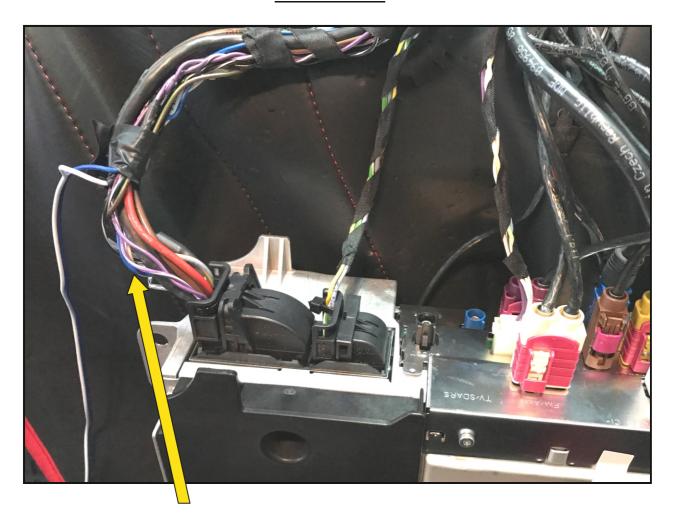


CONNECT THE POWER /
CAN HARNESS AT THE
HEAD UNIT.

CAN CONNECTIONS

THERE ARE 2 DIFFERENT TYPES OF HEAD UNIT FOR THE A CLASS. THE CAN CONNECTIONS ARE CONNECTED AT THE SAME PLACE (REAR OF THE HEAD UNIT). HOWEVER AS YOU SEE FROM THE FOLLOWING PHOTOS THE PLUGS ARE DIFFERENT.

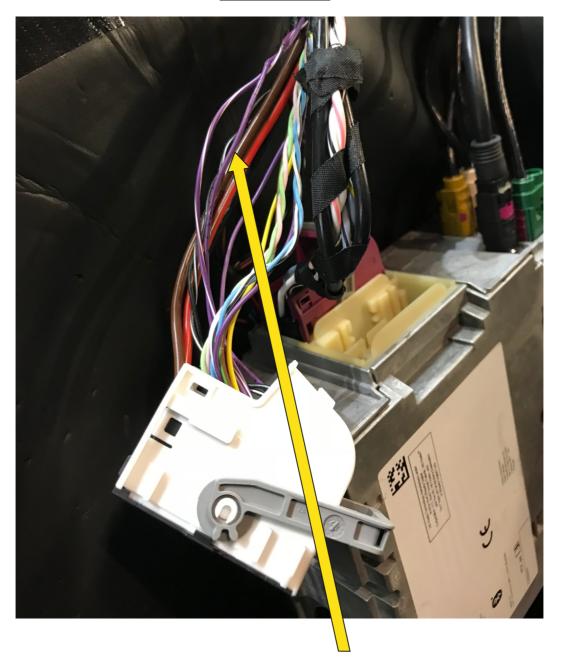
TYPE 1



CAN CONNECTIONS				
Interface wires	Connect to vehicle			
WHITE (CAN LOW)	PURPLE or PURPLE / BLACK			
BLUE (CAN HIGH)	PURPLE / WHITE			

CAN CONNECTIONS

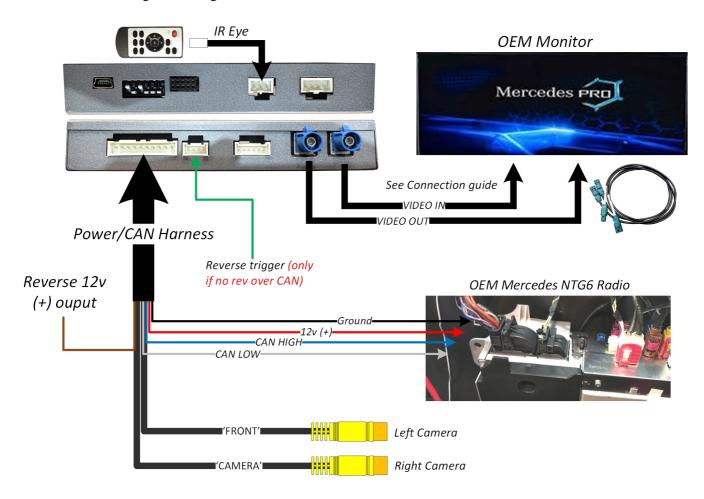
TYPE 2



CAN CONNECTIONS				
Interface wires	Connect to vehicle			
WHITE (CAN LOW)	PURPLE or PURPLE / BLACK			
BLUE (CAN HIGH)	PURPLE / WHITE			

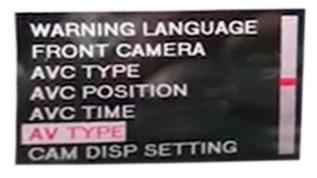
Side Camera Installation (only)

If you're installing turn signal cameras and the vehicle already has an OEM reverse camera, make connections according to this digram below:



If you're installing turn signal cameras *and a reverse camera, a VSW-R is required* and you must make connections according to the diagram on the next page.

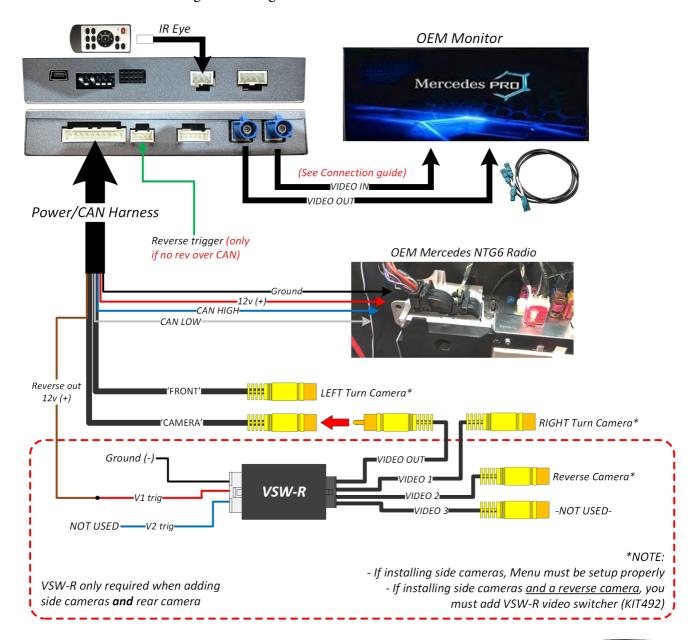
- For this installation scenario, set up the 'AV-TYPE' menu to 'L-AV + R-CAMERA':
 - 1. With DIP 4 DOWN, place vehicle in reverse
- 2. Press 'OK' on remote 4 times, then press POWER (IR eye must be connected)
 - 3. Scroll down to 'AV TYPE', set to 'L-AV + R-CAMERA'
 - 4. Press 'MODE' and wait for menu time out
- 5. Return DIP Switch #4 back to UP, disconnect and reconnect power plug once







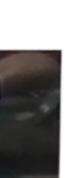
If you're installing turn signal cameras *and a reverse camera*, *a VSW-R is required* and you must make connections according to this diagram below:



- For this installation scenario, set up the 'AV-TYPE' menu to 'L-AV + R-CAMERA':
 - 1. With DIP 4 DOWN, place vehicle in reverse
- 2. Press 'OK' on remote 4 times, then press POWER (IR eye must be connected)
 - 3. Scroll down to 'AV TYPE', set to 'L-AV + R-CAMERA'
 - 4. Press 'MODE' and wait for menu time out



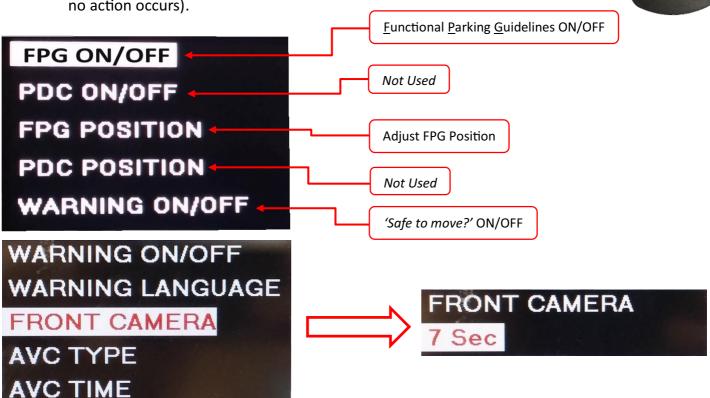




Menu Adjustments

Before you start:

- The IR-Eye must be connected
- Make sure the car's ignition is on and radio is on
- You must be in Reverse Camera mode (place vehicle in reverse)
- Press the OK BUTTON 4 times (numbers will display per press), then press POWER.
- The OSD Menu will appear on screen (auto-time out in about 5 seconds if no action occurs).



To activate *Front Camera timer*, scroll down using the remote arrow keys when in the menu to *FRONT CAMERA*. Once in this setting, press OK and choose (up/down) between 5, 7, 9 or 11 seconds for *auto-front switching timeout* (once the vehicle leaves reverse gear, the front camera input will stay active for pre-defined amount of time).

NOTE: ENSURE "DIP SWITCH 1" IS IN THE DOWN POSITION

NOTE: Once you have finished adjusting your settings, you must press the "POWER" button to save your settings.

REAR CAMERA

Once the interface is connected properly, reverse activation is automatic. Placing the vehicle in reverse will display the connected camera's image automatically.

Note: If display doesn't switch to reverse image when shifting into reverse or screen is distorted, check dip switch settings on page 2.

Note: If all dip switch settings have been tried, connect the provided 'Reverse Trigger Input' wire (green) and supply this wire with an OEM reverse 12v (+) signal.



FRONT / SIDE CAMERA

NOTE: ENSURE "DIP SWITCH 1" IS IN THE DOWN POSITION

To select Front / Side camera, press and hold the return button (on the steering wheel) for 2 secs. To cancel the camera either press and hold the return button for 2 sec or turn off IGN, and open the drivers door.

