

# NAV-TV

INTERFACING THE FUTURE

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## MBUX-H

NTV-KIT902



### Overview

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

### Kit Content



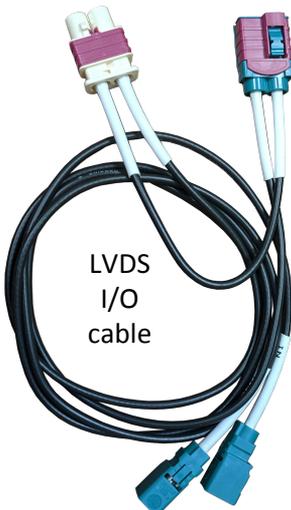
IR Remote



iR Remote sensor



Interface



LVDS I/O cable

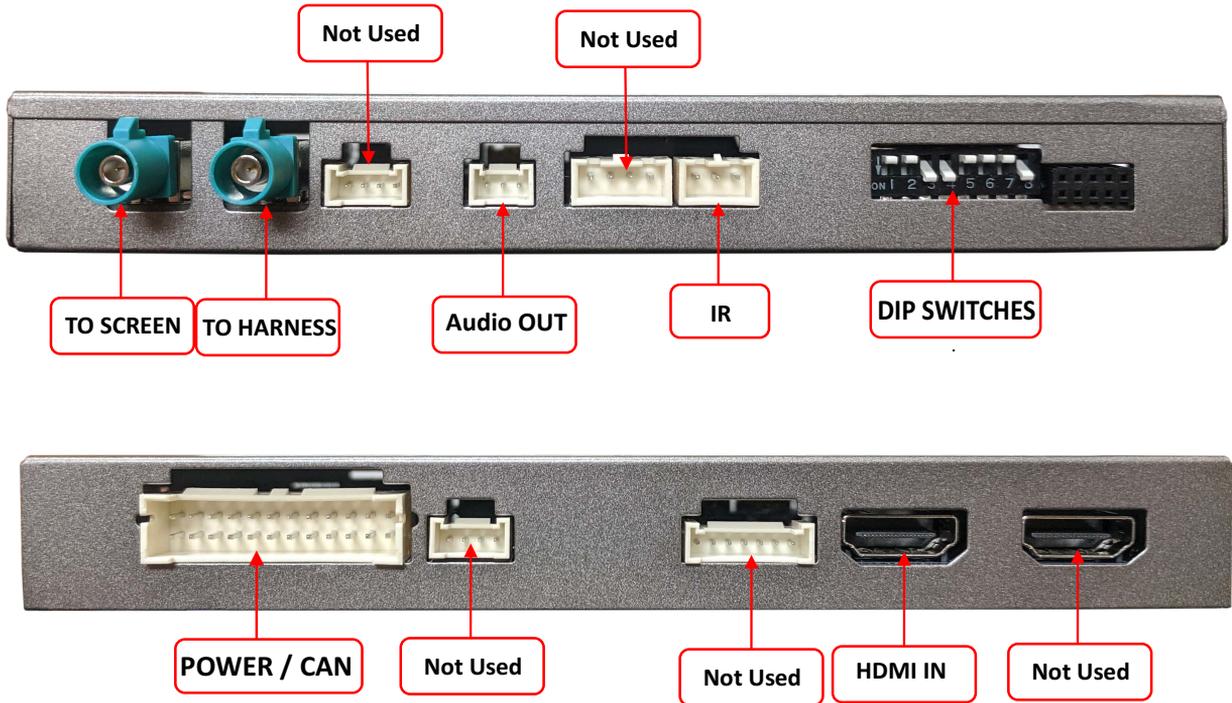


Audio OUT cable



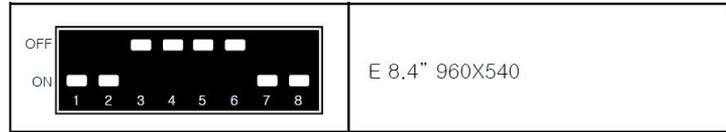
Power/CAN Harnesses

## Interface



## Dip Switch Settings

Dip SW:	SWITCH	Screen	VEH SET	RVC	CAN SET	N/A	VEH SET	VEH SET
	1	2	3	4	5	6	7	8
UP	KEEP DOWN	10.2"	E Class	OEM	SEE BELOW	KEEP UP	N/A	N/A
DOWN	KEEP DOWN	7"	C, S, Sprinter	Adding RVC	SEE BELOW	KEEP UP	N/A	N/A

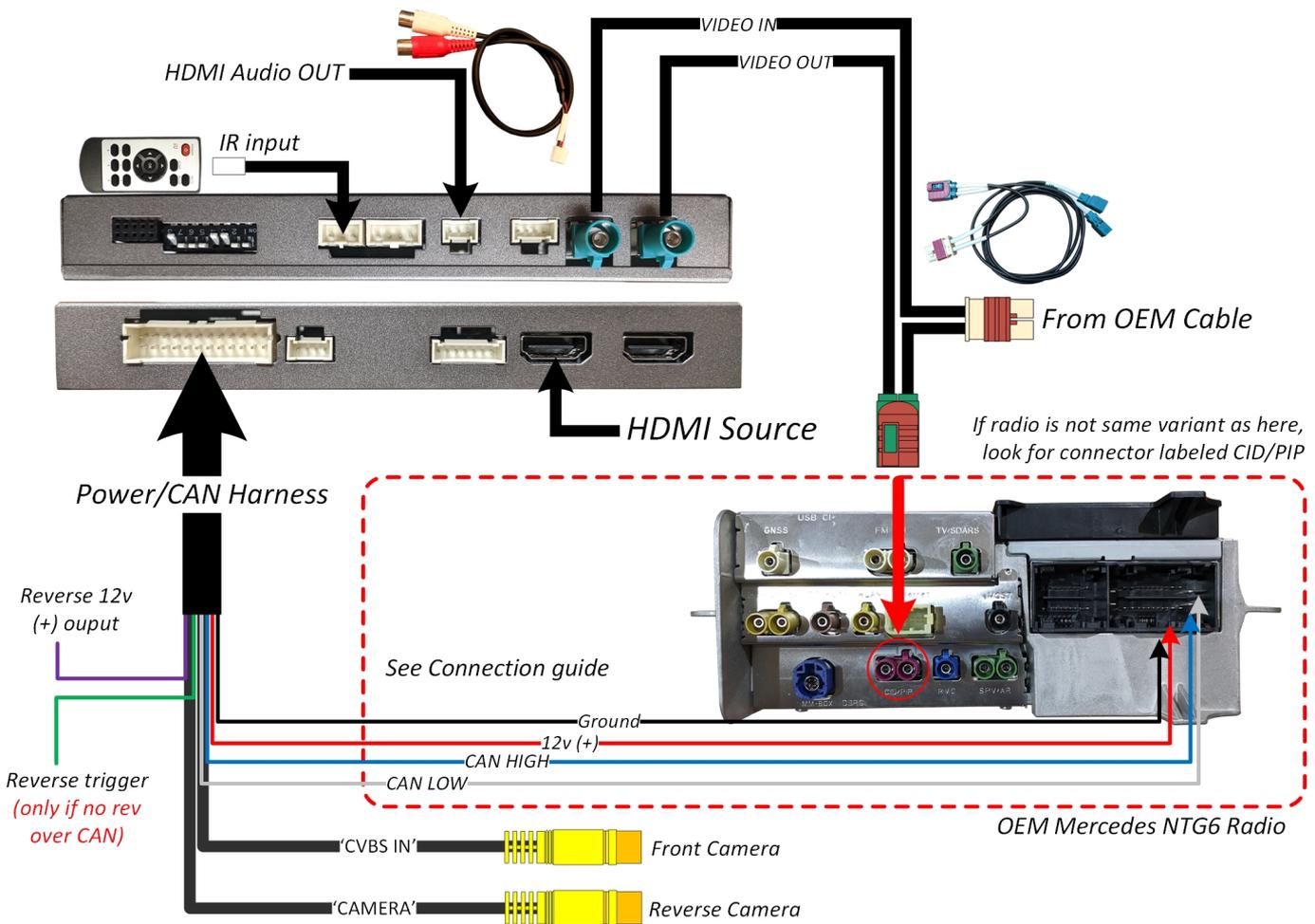


***\*Note: Remove power to the unit prior to making adjustments to the dip switches.***

## Installation

This installation requires access to the radio (located either behind the screen, beneath the seat or driver's footwell). Certain screws and panels must be removed in order to access the sub-dash areas. Continue below for further installation instructions.

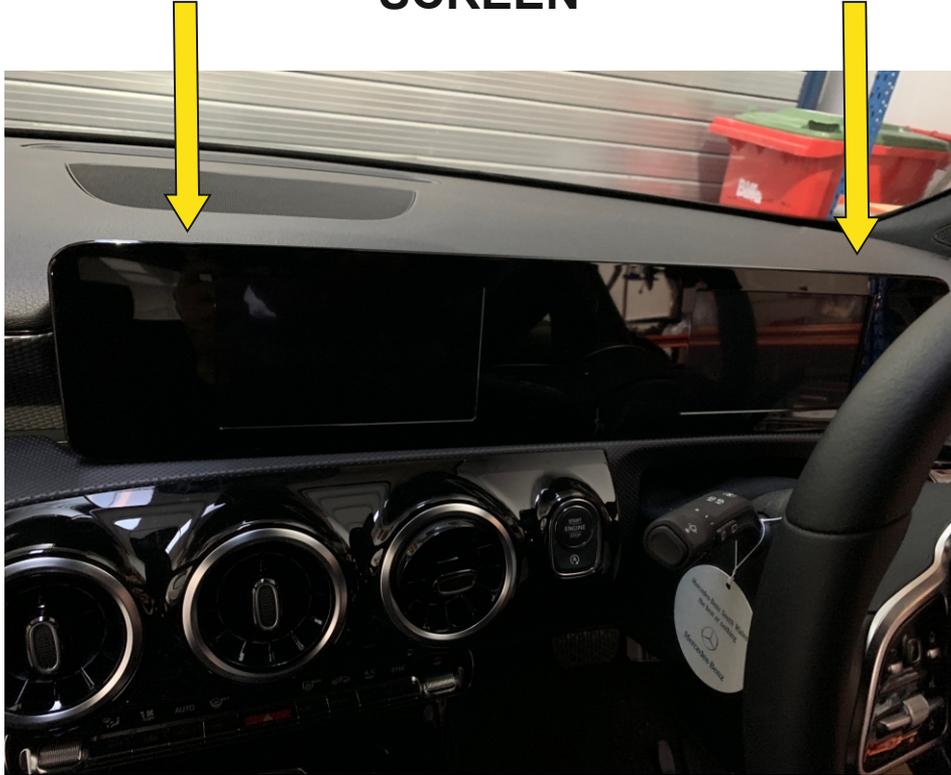
# Installation Diagram



**NOTE : Manual gearbox vehicles may require green wire trigger for reverse switching.**

## HOW TO REMOVE THE SCREEN

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

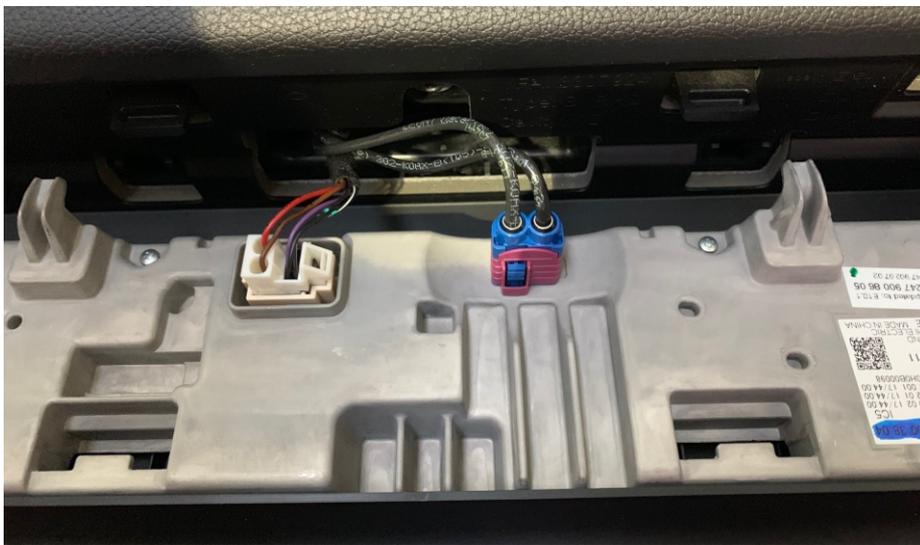


**THE SCREEN WILL JUST LIFT UP ONCE YOU HAVE REMOVED THE 2 X T20 SCREWS, THIS WILL THEN GIVE YOU ACCESS TO THE REAR OF THE SCREEN**

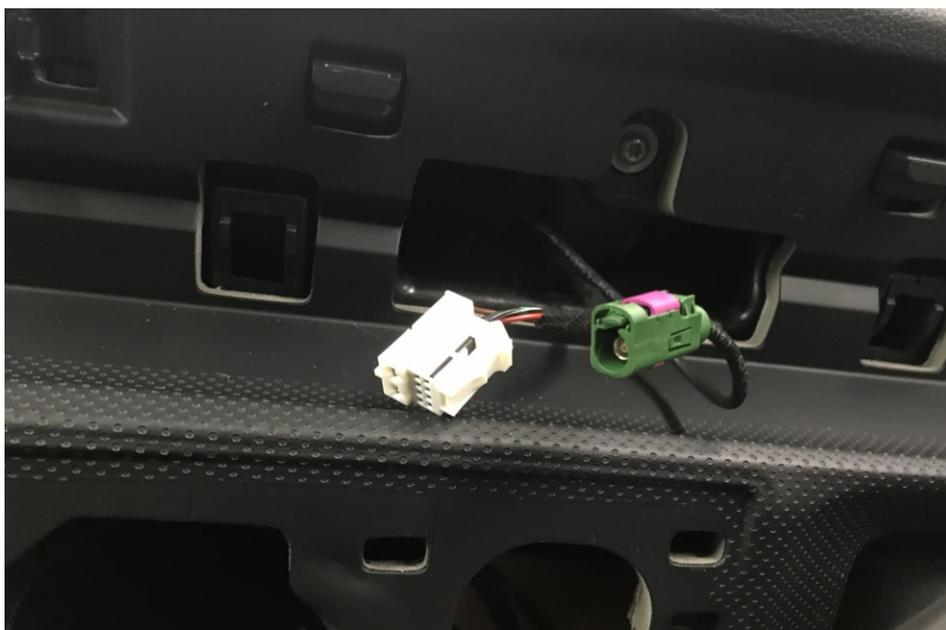
## LVDS CONNECTIONS (VIDEO)

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)



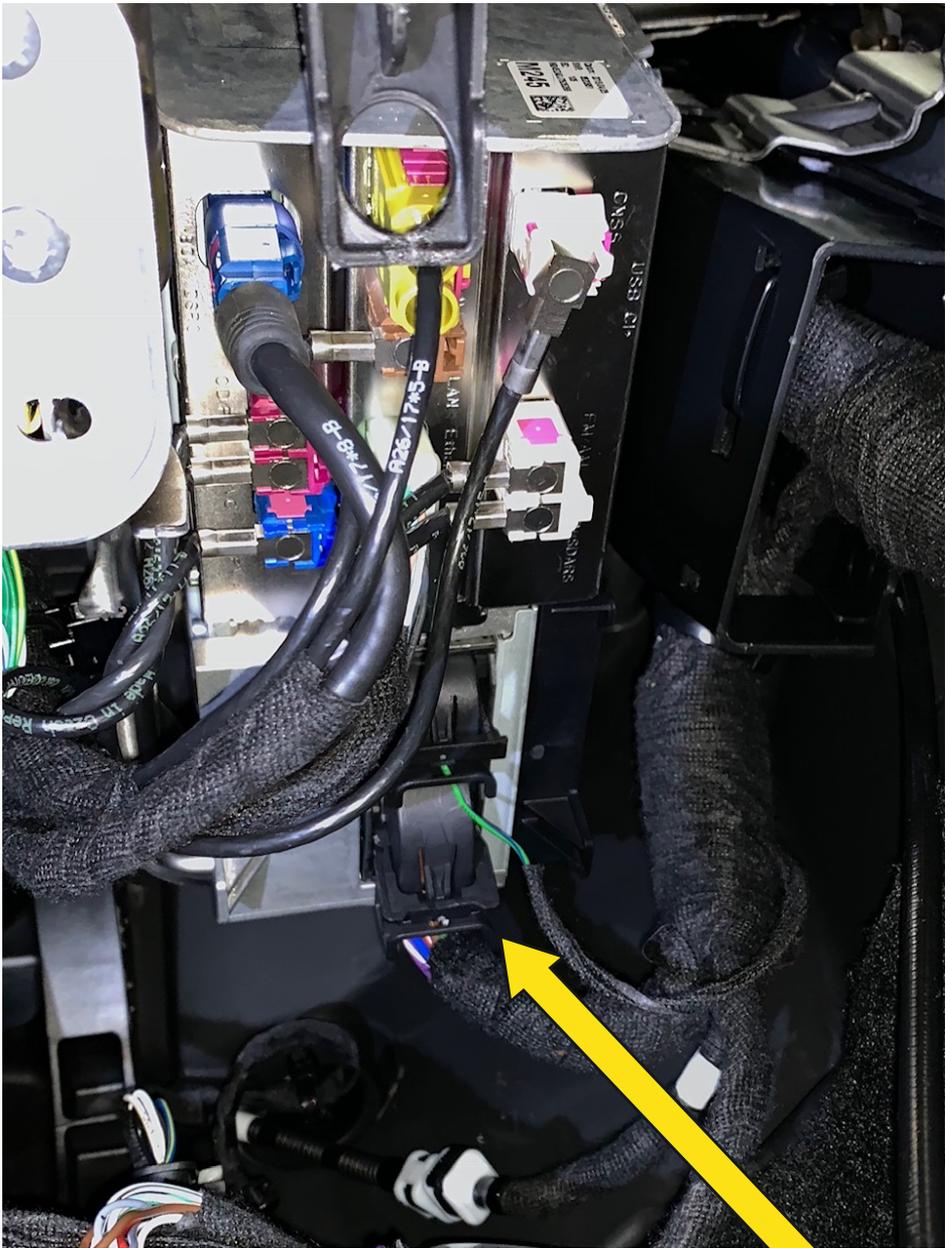
### TYPE 2 (1 Fakra connector)





**The radio tuner is typically located high in the passengers kick panel area, or underneath the seat. You will need to access the main power connector for ground (-), 12v (+) constant, CAN HIGH and CAN LOW.**

Installation

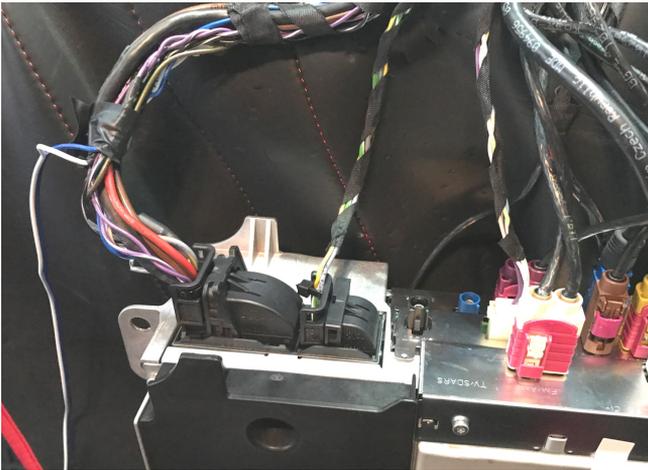


**CONNECT THE POWER /  
CAN HARNESS AT THE  
HEAD UNIT.**

# CAN CONNECTIONS

## A-Class, Sprinter

### TYPE 1



### TYPE 2

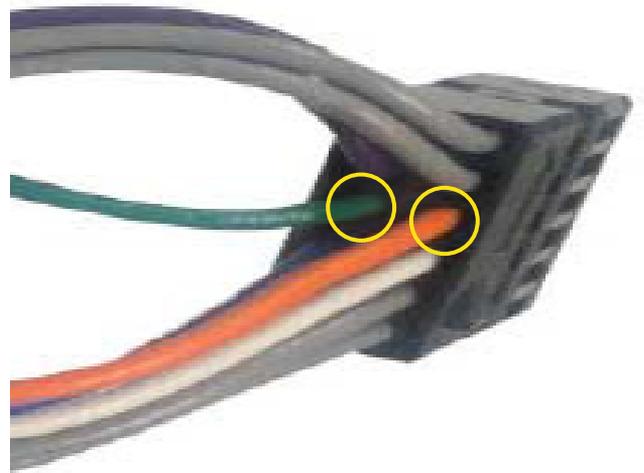


<b>CAN CONNECTIONS</b>	
Interface wires	Connect to vehicle
WHITE (CAN LOW)	<b>PURPLE</b> or PURPLE / BLACK
BLUE (CAN HIGH)	<b>PURPLE / WHITE</b>

# CAN CONNECTIONS

**C-Class, E-Class, S-Class**

**Radio**

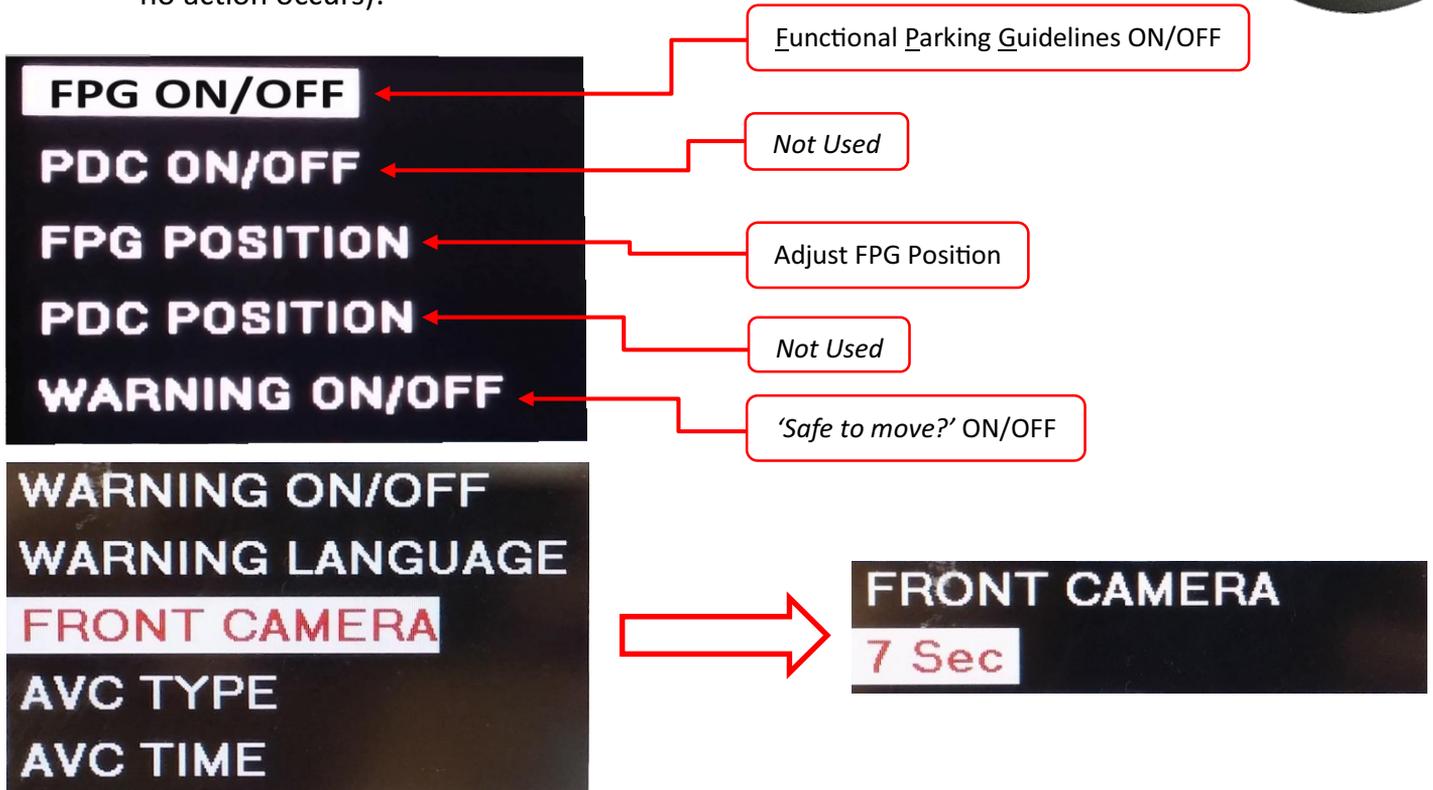


<b>CAN CONNECTIONS</b>	
<b>Interface wires</b>	<b>Connect to vehicle</b>
<b>WHITE (CAN LOW)</b>	<b>Green</b>
<b>BLUE (CAN HIGH)</b>	<b>Orange</b>

## 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).

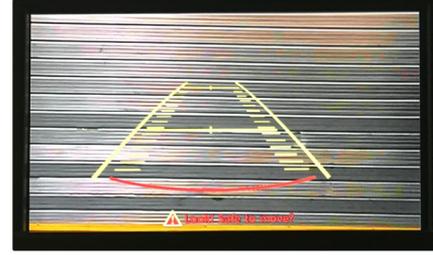
**NOTE: Once you have finished adjusting your settings, you must press the "POWER" button to save your settings.**

## 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 / HDMI

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.



**Hold (2 sec)**

