JINGLE AVAS

Acoustic signal for electric / hybrid cars

CODE: CF0061UNAV11 - CF0061UNAV21

45’

DESCRIPTION

JINGLE AVAS 2.0 is an audible warning device that increases the road safety of hybrid or electric cars, which when they are powered, are so silent that they are not audible to pedestrians.
This feature has generated numerous accidents, so much so that the European Union has issued a law that requires manufacturers and owners of Electric / Hybrid vehicles to compulsorily equip new and already circulating vehicles with an audible warning device to alert pedestrians.

To comply with the standard, the product must be sized according to the minimum requirements regarding noise emissions pursuant to UNECE regulation no. 138.

JINGLE AVAS 2.0 is perfectly compliant with the reference standard.

To make the product compatible with a large number of vehicles, Paser has introduced new types of system operation. In fact, this innovative version has the possibility of operating not only with the canbus line of the vehicle, but also by connecting the module to a vehicle cable that supplies the speed signal (square wave). In addition, the device can work by connecting it to a GPS antenna (supplied by Paser). Below we will see the different types of connection.

KIT CONTENT

The KIT is inclusive of all the components necessary to perform the installation.
Connections are simple and fast, however Paser recommends that installation be performed by professional technical personnel.

A. Jingle AVAS module.
B. Plug and Play wiring.
C. Status button / LED.
D. Waterproof speaker.

A GPS antenna (E) is available as an accessory that allows you to operate the system without the need for other connections other than power.

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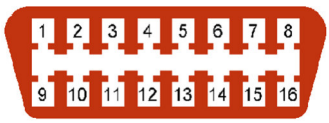
45’

DEFAULT WORKING MODE

Jingle AVAS 2.0 module can work in different ways.
By default, the module is set to work with the canbus protocols of compatible vehicles, if the vehicle is included in the compatibility when the module is connected, the protocol is automatically recognized and the system synchronizes, in this configuration there are no other settings to do.
All the other operating modes are to be **SET MANUALLY** or follow the setting procedure next page.

Current compatibilities

MODEL	YEAR	PROTOCOL	LOCATION	CANBUS CONNECTIONS
AUDI				
E-TRON	2019->	CANBUS	SEE DIAGRAM	SEE DIAGRAM
FIAT				
500	2015	CANBUS	OBD	CAN H 1 CAN L 9
MITSUBISHI				
MiEV	2017	CANBUS	OBD	CAN H 6 CAN L 14
NISSAN				
ENV200	2015	CANBUS	OBD	CAN H 13 CAN L 12
LEAF	2018	CANBUS	SEE DIAGRAM	SEE DIAGRAM
PSA				
PEUGEOT iON CITROËN C0	2017	CANBUS	OBD	CAN H 6 CAN L 14
RENAULT				
KANGOO ZE	2014	CANBUS	OBD	CAN H 6 CAN L 14
ZOE ZE	2013	CANBUS	OBD	CAN H 6 CAN L 14
TWIZY	2015	CANBUS	OBD	CAN H 6 CAN L 14
TESLA				
S 85D	2015	CANBUS	OBD	CAN H 1 CAN L 9
TOYOTA				
Prius	2006-2010	CANBUS	OBD	CAN H 6 CAN L 14
Prius	2011->	CANBUS	OBD	CAN H 6 CAN L 14
Prius Plus	2012->	CANBUS	OBD	CAN H 6 CAN L 14
Auris Hybrid	2014->	CANBUS	OBD	CAN H 6 CAN L 14
Yaris Hybrid	2016->	CANBUS	OBD	CAN H 6 CAN L 14
CH-R	2018->	CANBUS	OBD	CAN H 6 CAN L 14
VW				
UP	2015	CANBUS	OBD	CAN H 1 CAN L 9



WIRES OUTPUT VIEW

ATTENTION	
CAN H	GREY BLACK
CAN L	GREY

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WORKING MODES SETTINGS

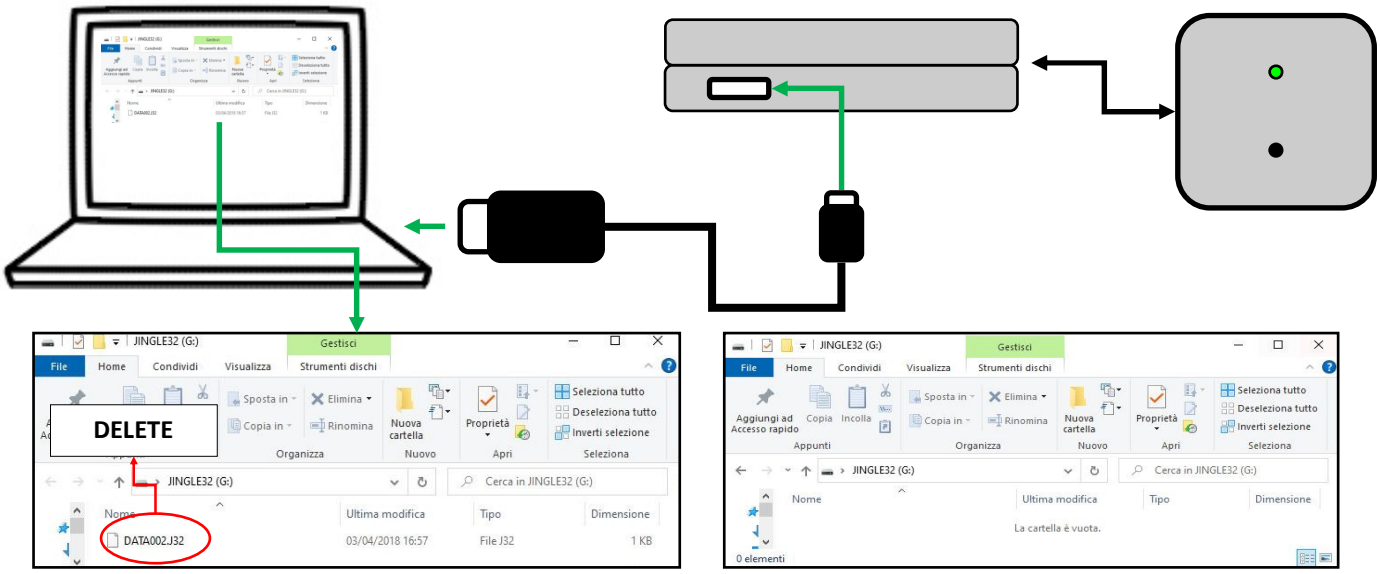
JINGLE AVAS 2.0, acoustic signal for hybrid or electric cars, can operate in different modes based on the vehicle and the technical characteristics of the vehicle.
This versatility allows the product to be integrated into any vehicle.
The system operating modes are:

1. JMODE CANBUS OEM. This configuration sets the module to work with proprietary canbus protocols, according to the auto compatibility list provided in the Jingle AVAS 2.0 instructions.
2. JMODE CANBUS OBD STD. This configuration sets the module to work with the diagnosis STANDARD canbus protocols directly to the canbus of the vehicle's OBD2 connector.
3. JMODE CANBUS OBD XTD. This configuration sets the module to work with the diagnostic EXTENDED canbus protocols directly to the vehicle's OBD2 connector canbus.
4. JMODE SPEED PULSE WIRE. This configuration sets the module to work connected directly to a wire with a speed signal (odometer).
5. JMODE GPS ANTENNA. This configuration sets the module to work via GPS antenna (supplied on request or present in the complete KIT).
6. JMODE J1939. This configuration sets the module only to the function PGN65215 SPN904 FRONT AXEL SPEED with CAN speed 500Kbps.

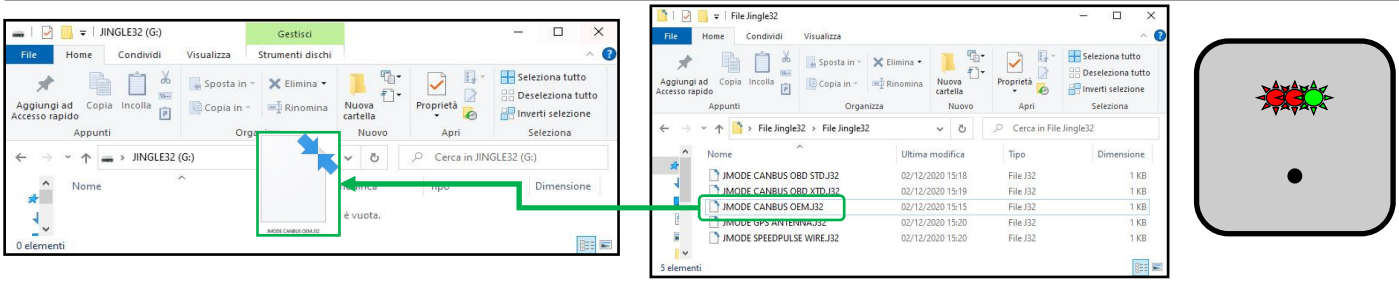
These settings can be done directly on the module by performing a simple procedure.
To facilitate the operation, however, we created 6 different files, which loaded, based on what we need, into the memory of Jingle AVAS 2.0, set the module according to the type of operation desired.

SETTING PROCEDURE

The setup procedure is simple.
First download the files from this link on the Paser website:
https://automotive.paser.it/en-gb/Comfort-and-Safety/Safety-on-the-road/Paser/Jingle-AVAS-2-0-ACOUSTIC-VEHICLE-ALERT-SYSTEM-GPS-antenna-included-p1099c92c336.html
Then having identified the file of interest, connect the Jingle AVAS 2.0 module to the PC via a USB A> MICRO USB cable.
The module will be recognized by the PC as a USB device.
A window will open with a file named DATAXXX.J32 inside. Delete the contained file so that the window is empty.



Now drag the file of interest into the window (DRAG AND DROP).
The module will load the file with the desired settings, to confirm the correct loading of the new file, the module will restart and the LED will start flashing RED and GREEN intermittently. Inside we will find again the DATAXXX.J32 file but with the new settings.
Disconnect JINGLE AVAS 2.0 from the PC, the setup is finished.



JINGLE AVAS

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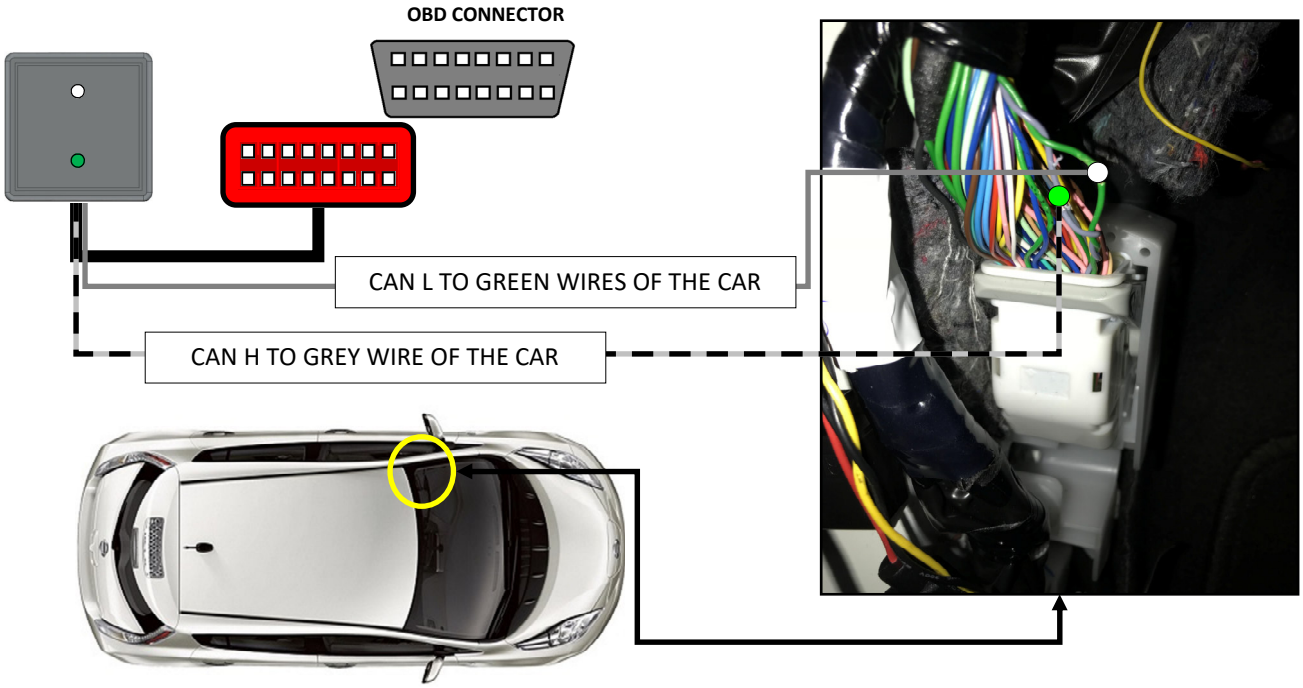
CODE: CF0061UNAV11 - CF0061UNAV21

45’

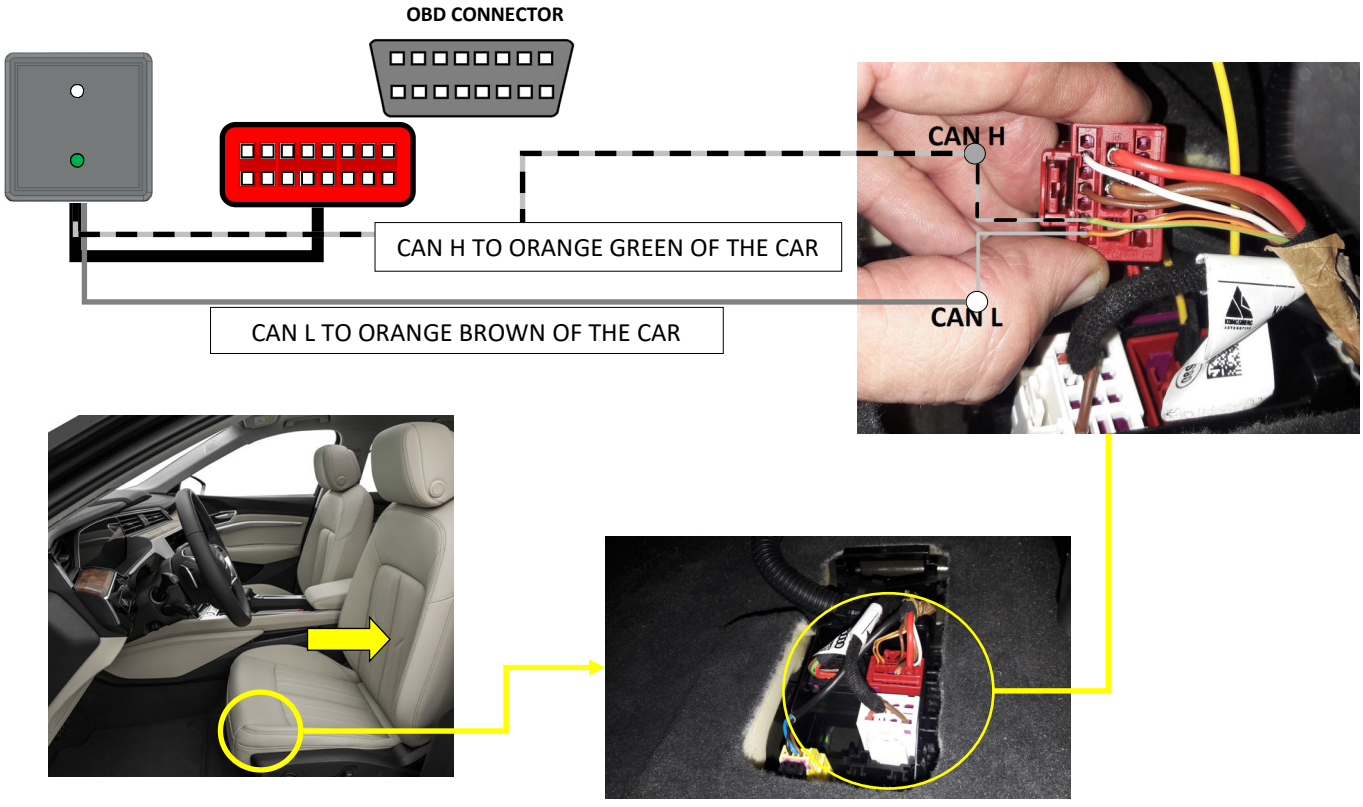
NISSAN LEAF

NISSAN LEAF model does not have the canbus communication required to manage the Jingle AVAS module on the OBD port, therefore to connect the module to the vehicle, follow the instructions below.
Connect the interface wiring to the car's OBD port, connect the module's canbus cables to the vehicle's canbus wires located in the driver's side sill as described below.



AUDI E-TRON

AUDI E-TRON model does not have the canbus communication required to manage the Jingle AVAS module on the OBD port, therefore to connect the module to the vehicle, follow the instructions below.
Connect the interface wiring to the car's OBD port, connect the module's canbus cables to the vehicle's canbus wires located in the driver's side under the seat as below described.



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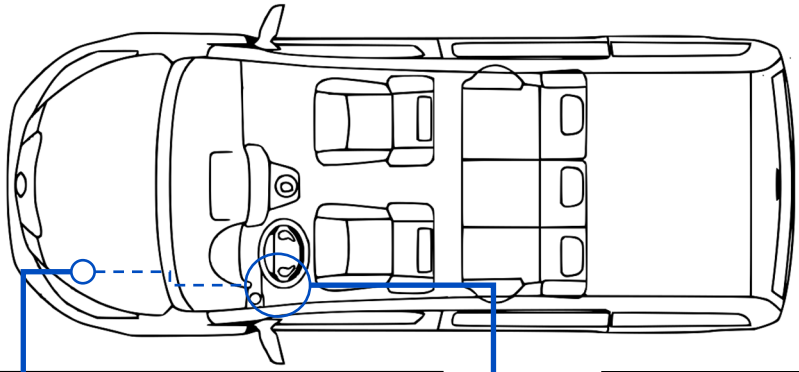
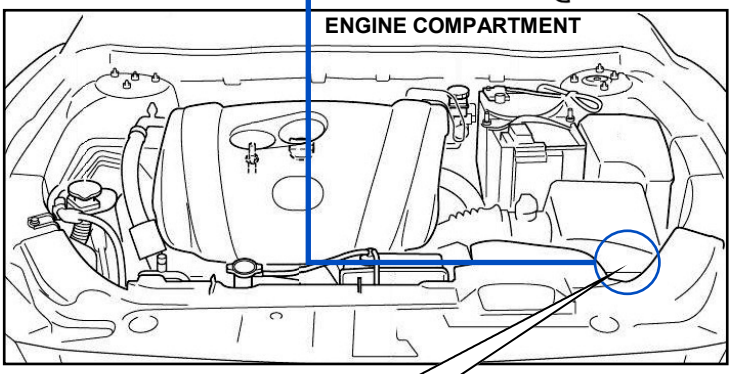
Acoustic signal for electric / hybrid cars

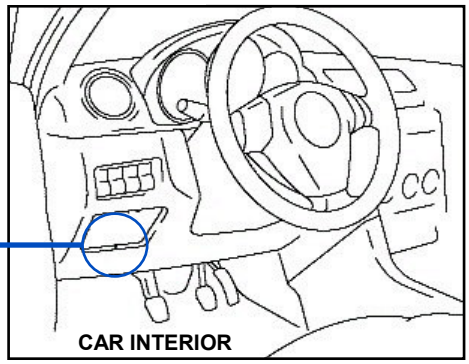
CODE: CF0061UNAV11 - CF0061UNAV21

45’

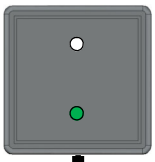
INSTALLATION ON CANBUS COMPATIBLE PROTOCOLS

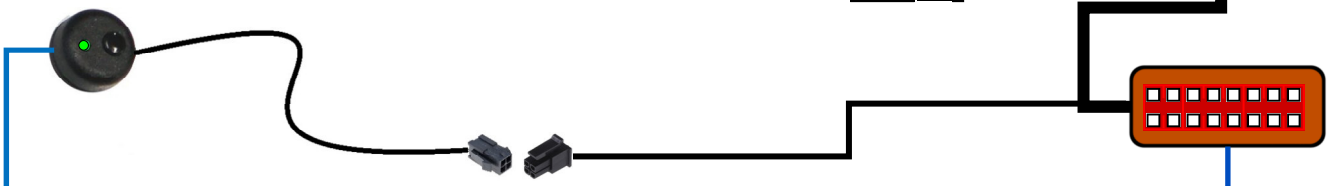


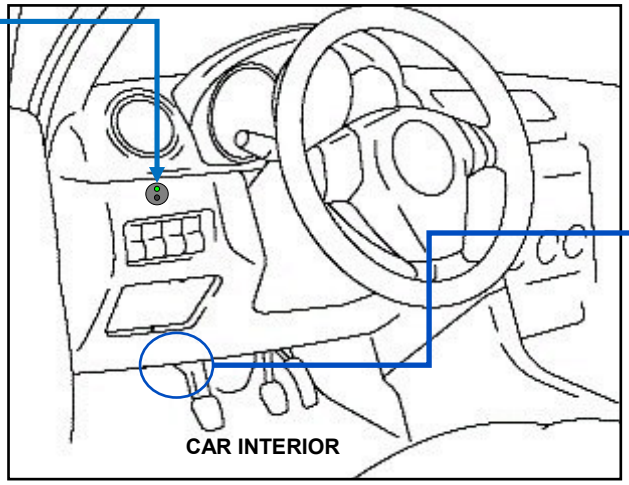


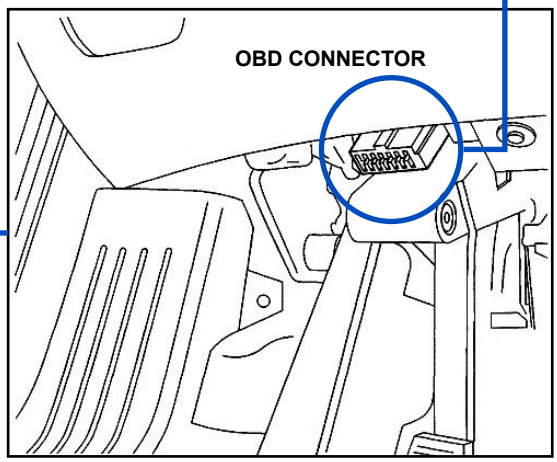


Insert CAN H Grey Black and CAN L Grey on the ODB socket as shown in the table on the next page.









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CODE: CF0061UNAV11 - CF0061UNAV21

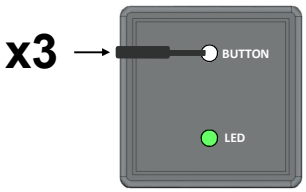
45’

STANDARD OBD DIAGNOSTIC PROTOCOLS AND *J1939 WORKING MODE

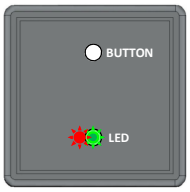
Jingle AVAS 2.0 module can work in different ways.
By default, the module is set to work with the canbus protocol of compatible vehicles, but if the vehicle is not listed, it is possible to make a setting to make it compatible with the standard OBD diagnosis protocols related to SAE-J2284 or ISO 15765.
To set the module with the diagnosis protocol, simply connect the module to the OBD canbus (pin 6 can H and pin 14 can L) and then set one between profiles 16 - 17.
With this setting the module works with the diagnosis protocols.
The * J1939 protocol supports only the function PGN65215 SPN904 FRONT AXEL SPEED with CAN 500Kbps speed and is available in profile 21.

OBD DIAGNOSIS PROTOCOLS OR *J1939 SETTING

Starting from the condition of steady green led, to enter the settings programming, it is necessary to press the reset button of the module 3 times quickly.



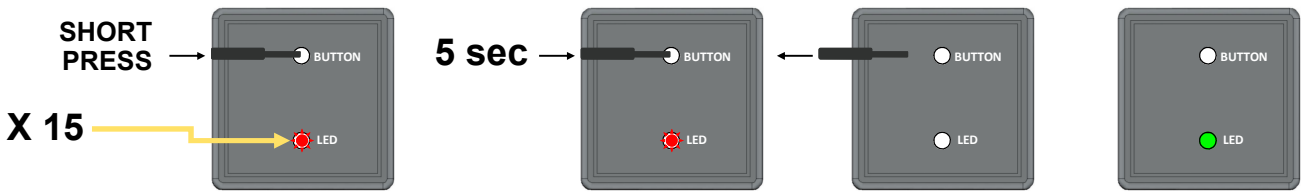
The Jingle LED will perform a number of RED / GREEN flashes such as to indicate the car profile recognized during the self-recognition phase. If the module has not recognized any profile, the LED will flash 1 RED which is the first profile that can be set (see table below).



	WORKING MODE PROFILE	CAR VERIFIED	GREEN LED FLASHES	RED LED FLASHES
1	GPS ANTENNA		0	1
2	SPEED PULSE INPUT		0	2
3	RESERVED		0	3
4	TOYOTA 2006 > 2010	PRIUS 2006	0	4
5	TOYOTA 2011 > 2015	PRIUS 2011	0	5
6	TESLA 2015 > 2017	S 2015	0	6
7	FIAT 500	500E	0	7
8	RENAULT KANGOO	KANGOO ZE	0	8
9	VW UP	UP EL 2015	0	9
10	NISSAN EVN200	EVN200 2015	0	0
11	RENAULT ZOE	ZOE 2013	1	1

	WORKING MODE PROFILE	CAR VERIFIED	GREEN LED FLASHES	RED LED FLASHES
12	RENAULT TWIZY	TWIZY 2015	1	2
13	TOYOTA 2016 > 2017	YARIS 2016	1	3
14	CITROEN C0 PEUGEOT ION MITSUBISHI MIEV	C0	1	4
15	TOYOTA 2018 >	CHR 2018	1	5
16	OBD STANDARD 1	PID STD	1	6
17	OBD STANDARD 2	PID XTD	1	7
18	NISSAN LEAF	LEAF 2018	1	8
19	AUDI E-TRON	E-TRON 2019	1	9
20	RESERVED		2	0
21	*J1939 PGN65215 SPN904 FRONT AXEL SPEED CAN speeds 500Kbps		2	1
22	RESERVED		2	2

Each time the button is pressed SHORTLY, the number of flashes increases and consequently the operating profile changes.
To set the OBD STANDARD profile 1, press the button 15 times so that the LED flashes GREEN once and RED 6 times, to confirm the selection, press the module key for 5 seconds until the LED turns off. Then release the button, the LED will return to GREEN fixed.



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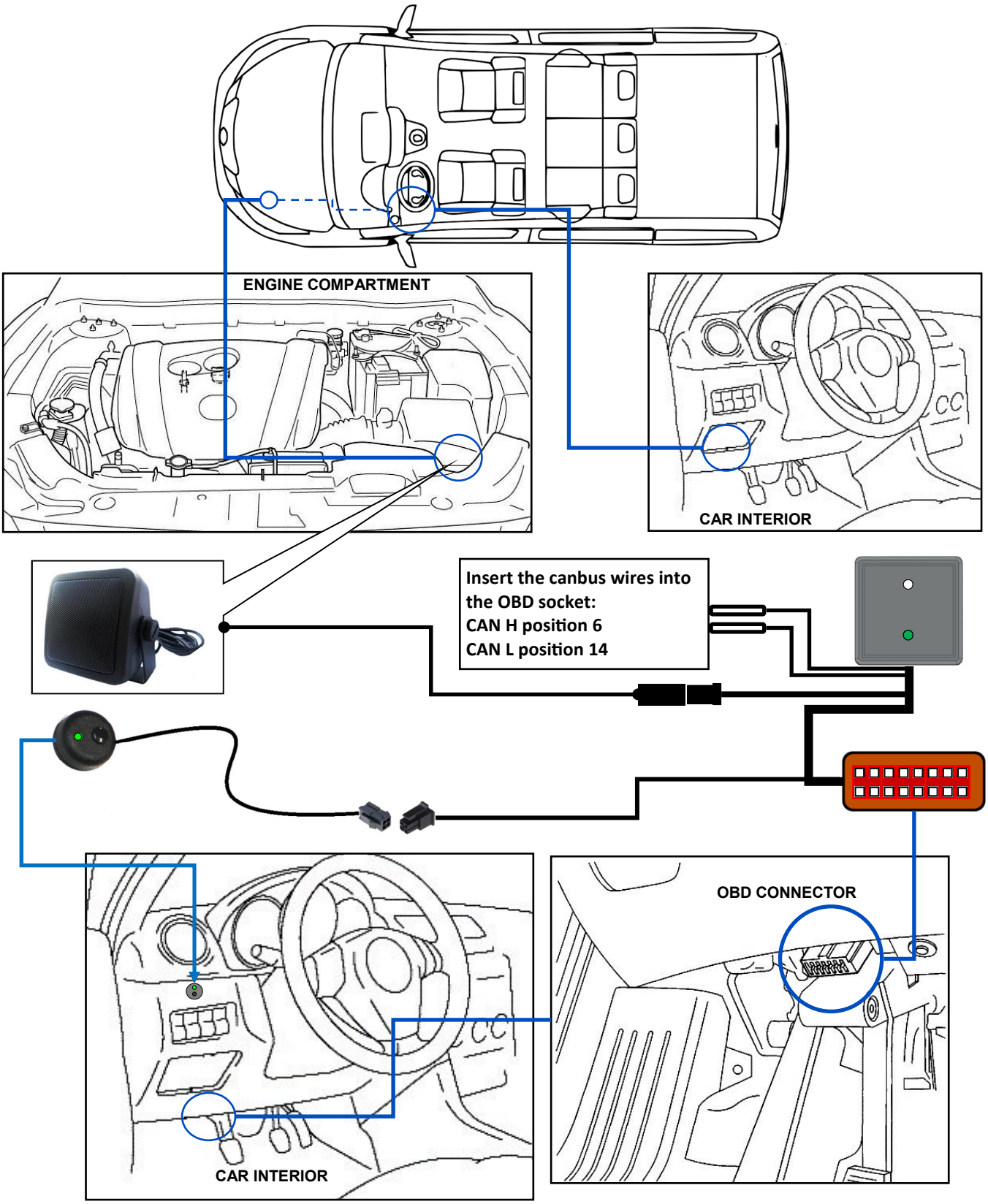
45’

INSTALLATION ON DIAGNOSTIC PROTOCOLS

Attention!!!
In this configuration the +12 power wire must be connected to a 12V IGNITION!



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45’

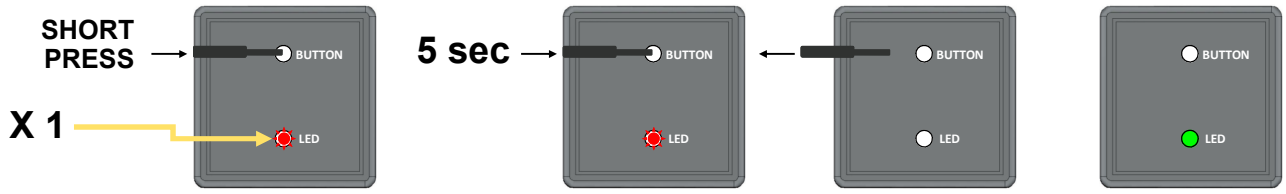
SPEED PULSE WIRE SIGNAL WORKING MODE

If the vehicle does not have a diagnostic canbus protocol compliant and it is not even compatible according to the compatibility vehicles list, the module can be set to work with the vehicle's speedpulse (odometer) wire signal. T
o set the module working the speed pulse wire please set profile 2.

	WORKING MODE PROFILE	CAR VERIFIED	GREEN LED FLASHES	RED LED FLASHES
1	GPS ANTENNA		0	1
2	SPEED PULSE INPUT		0	2
3	RESERVED		0	3
4	TOYOTA 2006 > 2010	PRIUS 2006	0	4
5	TOYOTA 2011 > 2015	PRIUS 2011	0	5
6	TESLA 2015 > 2017	S 2015	0	6
7	FIAT 500	500E	0	7
8	RENAULT KANGOO	KANGOO ZE	0	8
9	VW UP	UP EL 2015	0	9
10	NISSAN EVN200	EVN200 2015	0	0
11	RENAULT ZOE	ZOE 2013	1	1

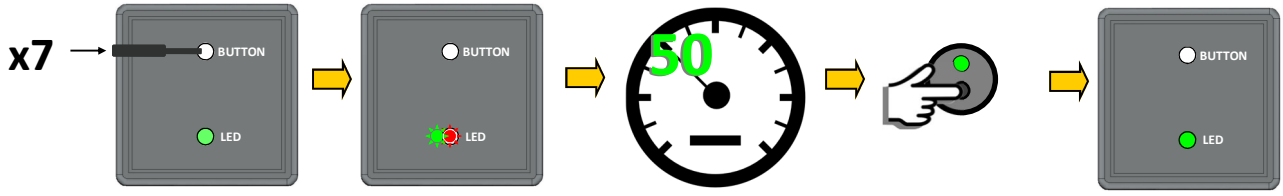
	WORKING MODE PROFILE	CAR VERIFIED	GREEN LED FLASHES	RED LED FLASHES
12	RENAULT TWIZY	TWIZY 2015	1	2
13	TOYOTA 2016 > 2017	YARIS 2016	1	3
14	CITROEN C0 PEUGEOT ION MITSUBISHI MIEV	C0	1	4
15	TOYOTA 2018 >	CHR 2018	1	5
16	OBD STANDARD 1	PID STD	1	6
17	OBD STANDARD 2	PID XTD	1	7
18	NISSAN LEAF	LEAF 2018	1	8
19	AUDI E-TRON	E-TRON 2019	1	9
20	RESERVED		2	0
21	*J1939 PGN65215 SPN904 FRONT AXEL SPEED CAN speeds 500Kbps		2	1
22	RESERVED		2	2

Each time the button is pressed SHORTLY, the number of flashes increases and consequently the operating profile changes.
To set the ODOMETRIC INPUT profile, press the button 1 times so that the LED flashes RED 2 times, to confirm the selection, press the module key for 5 seconds until the LED turns off.
Then release the button, the LED will return to GREEN fixed.



CALIBRATION OF THE SPEED PULSE WIRE SIGNAL

Once profile 2 has been set, a module calibration is required.
To perform the calibration, press the module button 7 times, the LED will begin to flash alternately RED and GREEN. Now bring the vehicle to the speed of 50km / H, then with the speed kept constant, press the button / LED of the kit, the LED of the module will turn solid GREEN. Calibration has ended.



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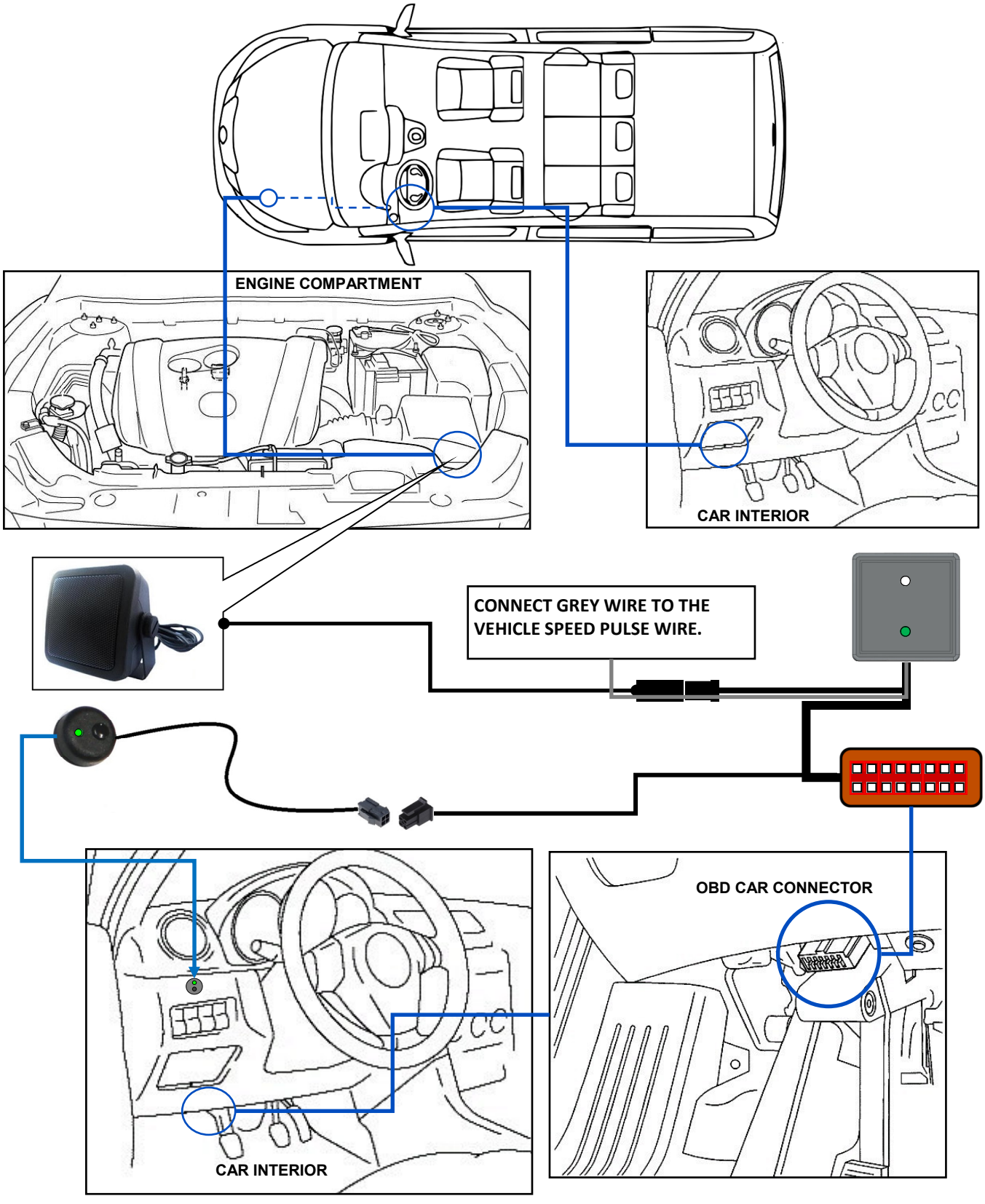
45’

INSTALLATION WITH SPEED PULSE WIRE SIGNAL

Attention!!!
In this configuration the +12 power wire must be connected to a 12V IGNITION!



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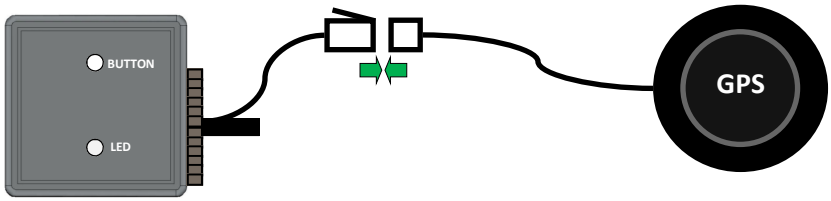
CODE: CF0061UNAV11 - CF0061UNAV21

45’

GPS WORKING MODE

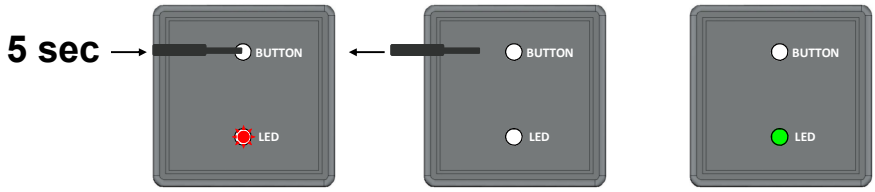
If the vehicle is not listed in compatibility or compatible with the diagnostic canbus and is not equipped with odometer wires, the use of the GPS Paser antenna is recommended. First you need to connect the antenna to the module via the 4-way molex connection, then select profile 1.



	WORKING MODE PROFILE	CAR VERIFIED	GREEN LED FLASHES	RED LED FLASHES
1	GPS ANTENNA		0	1
2	SPEED PULSE INPUT		0	2
3	RESERVED		0	3
4	TOYOTA 2006 > 2010	PRIUS 2006	0	4
5	TOYOTA 2011 > 2015	PRIUS 2011	0	5
6	TESLA 2015 > 2017	S 2015	0	6
7	FIAT 500	500E	0	7
8	RENAULT KANGOO	KANGOO ZE	0	8
9	VW UP	UP EL 2015	0	9
10	NISSAN EVN200	EVN200 2015	0	0
11	RENAULT ZOE	ZOE 2013	1	1

	WORKING MODE PROFILE	CAR VERIFIED	GREEN LED FLASHES	RED LED FLASHES
12	RENAULT TWIZY	TWIZY 2015	1	2
13	TOYOTA 2016 > 2017	YARIS 2016	1	3
14	CITROEN C0 PEUGEOT ION MITSUBISHI MIEV	C0	1	4
15	TOYOTA 2018 >	CHR 2018	1	5
16	OBD STANDARD 1	PID STD	1	6
17	OBD STANDARD 2	PID XTD	1	7
18	NISSAN LEAF	LEAF 2018	1	8
19	AUDI E-TRON	E-TRON 2019	1	9
20	RESERVED		2	0
21	*J1939 PGN65215 SPN904 FRONT AXEL SPEED CAN speeds 500Kbps		2	1
22	RESERVED		2	2

Since it’s the first profile available, it is sufficient to confirm the choice by pressing the module key for 5 seconds.



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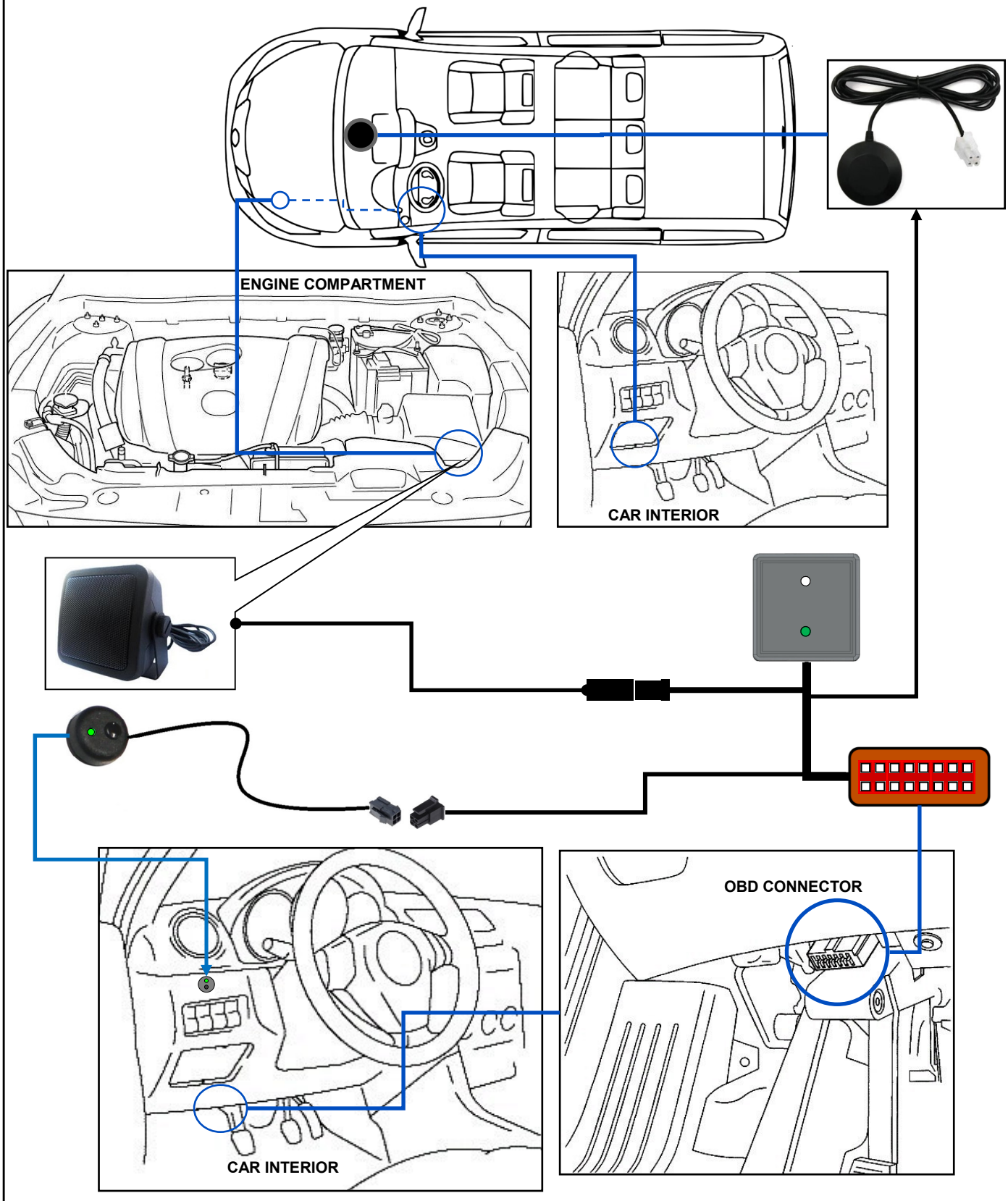
CODE: CF0061UNAV11 - CF0061UNAV21

45’

INSTALLATION WITH GPS ANTENNA

Attention!!!
In this configuration the +12 power wire must be connected to a 12V IGNITION!



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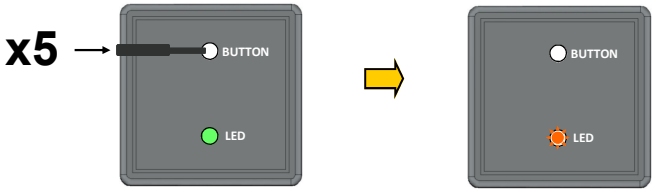
45’

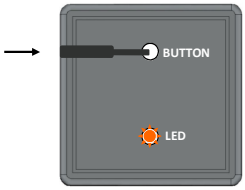
SETTINGS

JINGLE AVAS can be configured differently from the factory parameters (GREY highlighted in the tab below) and comply with European legislation. Paser declines all responsibility for any penalties for changes in the factory settings.

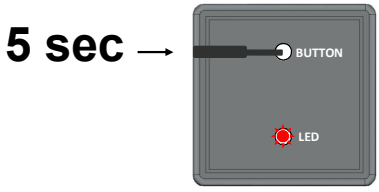
To enter the settings programming, it is necessary to press quickly the reset button of the module 5 times, starting from the condition of the LED green fixed.



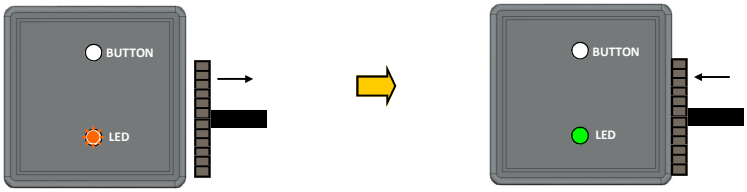
The Jingle LED will make 1 orange flash and 1 red flash, which will indicate the selection of the first setting (orange flash) and its relative value (red flash).
To move on to the next option, simply press the Jingle reset button briefly.



To change the setting value, it is necessary to keep the reset button pressed for 5 seconds, thus increasing the number of red flashes, i.e. the setting value.



Once the changes have been made, it is necessary to disconnect the module and connect it again.



OPTION	ORANGE LED FLASHES	VALUE	RED LED FLASHES
1 SOUND	1	STANDARD	1
2 VOLUME	2	1. HIGH	1
		2. MEDIUM	2
		3. LOW	3
		4. BOOST 1	4
		5. BOOST 2	5
3 SOUND WITH CAR NOT DRIVING	3	1. NO	1
		2. YES	2
4 SOUND BASED ON SPEED	4	1. sound active till 20 Km/h	1
		2. sound active till 30 Km/h	2
		3. sound active till 50 Km/h	3
		4. continuous sound	4
5 DIAGNOSTIC OPERATION	5	1. CAN activity suspended in the presence of diagnosis	1
		2. CAN activity NOT suspended in the presence of diagnosis	2

JINGLE AVAS

Acoustic signal for electric / hybrid cars

CODE: CF0061UNAV11 - CF0061UNAV21

45’

JINGLE WORKING MODE

Jingle AVAS 2.0 module is activated each time the vehicle panel is turned on.
The sound signal is available when the vehicle is driving up to 20 km / h.
Exceeding this speed, the sound emission stops.
The tone of Jingle's sound changes according to different speeds, so as to give the pedestrian a perception of the speed of travel.
User can suspend the Jingle audible signal by pressing the LED button provided in the KIT. The module will automatically reactivate the next time the vehicle is started.
When Jingle is active, LED is lit GREEN, when the button is pressed the LED flashes and the sound stops.

	LED Status
	LED GREEN: module active.
	LED GREEN flashing, module paused (sound silenced).
	LED OFF, module not active.

TECHNICAL CHARACTERISTIC	
POWER SUPPLY	10/16 VDC
ABSORPTION AT REST	2.5 mA
ABSORPTION WHEN WORKING WITHOUT GPS	70 mA
ABSORPTION WHEN WORKING WITH GPS	85 mA
ABSORPTION WHEN WORKING WITH SOUND ON	400 mA
SPEAKER POWER IN FREE AIR	75 / 80 (1 M)± 3 dB A
TEMPERATURE RANGE	-20 ° / + 75 °

WARNING!

IF YOU NEED TO INSTAL THE SAME IN A NEW CAR (EVEN IF IN A SAME GROUP MODEL) IT IS NECESSARY TO RESET THE MODULE.

RESET:

1. WITH THE UNIT POWERED, PRESS AND KEEP PRESSED THE MODULE BUTTON TILL THE LED SWITCH OFF.

2. WITH THE LED SWITCHED OFF RELEASE THE BUTTON, THE RESET IS DONE.

WARRANTY

THIS PRODUCT IS GUARANTEED FOR 2 YEARS FOR ANY MANUFACTURING DEFECTS. THE FISCAL DOCUMENT SERVES AS THE GUARANTEE VALIDITY