



JINGLE AVAS 2.0

**Safety Acoustic vehicle alert system
for electric/hybrid vehicles!**



From 1 July 2019, according to the UNECE 138:2016 Regulation of the European Commission, for the safety of pedestrians and traffic, it is mandatory to equip electric / hybrid vehicles (new and already in circulation) with an acoustic warning device: **JINGLE AVAS 2.0 is the solution!**



MADE IN ITALY



JINGLE AVAS 2.0: the strenghts

JINGLE AVAS 2.0 is an **ACOUSTIC VEHICLE ALERTING SYSTEM** that complies with the requirements of the reference regulation (**UN ECE 138:2016 of the European Commission**).

The solution is able to generate an acoustic warning when the car is moving, thus ensuring that pedestrians perceive its arrival. By default, the unit is set to work via **OEM CANBUS network**, of the electric/hybrid vehicles available in the microprocessor memory. Compatible vehicles belong to the car brands shown on page 3 (for information on compatible models, please contact Paser).

JINGLE AVAS 2.0 can work in different modes, for example, by performing a simple setting, the module is compatible with the **OBD diagnostic protocols referred to the SAE-J2284 or ISO 15765 standards**.

If the vehicle of interest does not fall within the compatibility of the OEM CANBUS protocols and not even in the diagnostic ones, it is possible to set the unit so that the operation occurs by connecting it to **a wire of the vehicle that provides the speed signal (square wave signal)**.

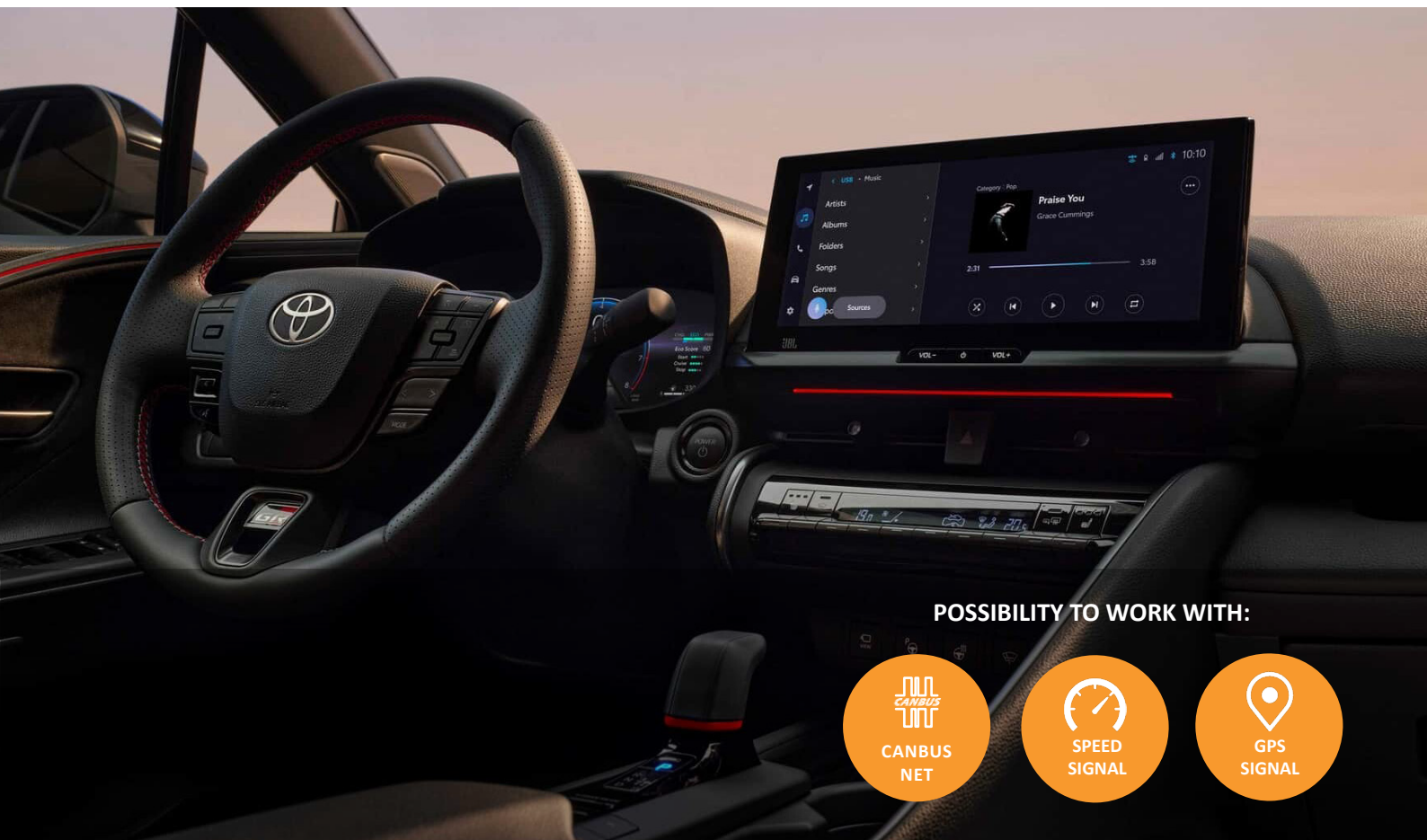
If none of the above conditions are available, the unit can work with GPS coordinates (Paser supplies on request a **GPS antenna** dedicated to this function).

JINGLE AVAS 2.0 is set as follows by default:

- **Automatic activation when the vehicle is turned on**
- **Different acoustic signal tones based on the vehicle speed**
- **Automatic shutdown above 20Km/h**
- **LED Button to activate/deactivate the system**
- **Sound level in dB compliant with regulations**
- **Functionality also active in reverse**

The settings can be changed by the installer, when necessary.

Paser is available to the Customer for product customizations based on specific applications!



POSSIBILITY TO WORK WITH:



JINGLE AVAS 2.0: car compatibility depending on the models



For more information about compatible models, please contact Paser.



JINGLE AVAS 2.0: components



**PLUG&PLAY
HARNESS**



**LED / STATUS
BUTTON**



**JINGLE AVAS 2.0
UNIT**



SPEAKER



GPS ANTENNA
(not included, purchasable separately)

The kit is totally Plug&Play: the unit connects via the vehicle's **OBD SOCKET**.



Technical Features

Power supply:	+10/16 VDC
Consumptions in sleep mode:	2,5 mA
Absorption with active sound:	400mA
Temperature:	-20 / +75 °C
Sound emission:	~ 80 dB

CONTACTS



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