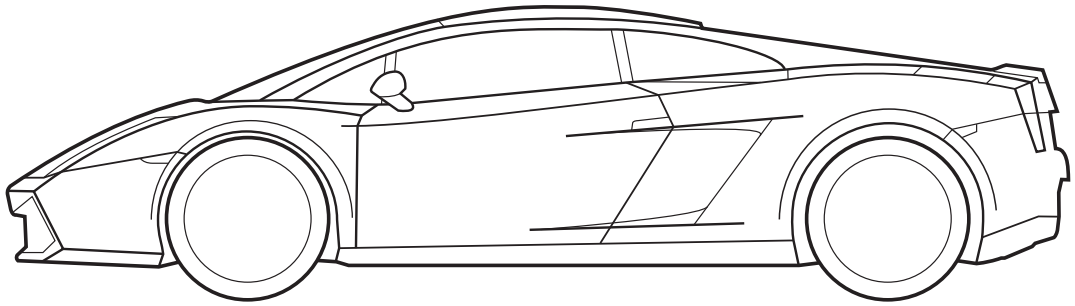

Parking Sensor Programming Manual

Part number **90000359**

CE

The technical information included in the following manual must be considered strictly approximate and the manufacturing company will not be held liable in relation to said information. The technical staff appointed to installation is required to check, with due diligence and under their own responsibility, the information provided herein based on the type of vehicle (ex. specific connection points for the model).

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INTRODUCTION

USB CONNECTION

PRG007 Programmer is the programming interface for parking sensors 90000358 developed with sw on Windows® platform. Operation is local, directly on the PC, after downloading and installing the management programme, as explained in the following pages.
The connection with PRG007 is set up with a USB port.

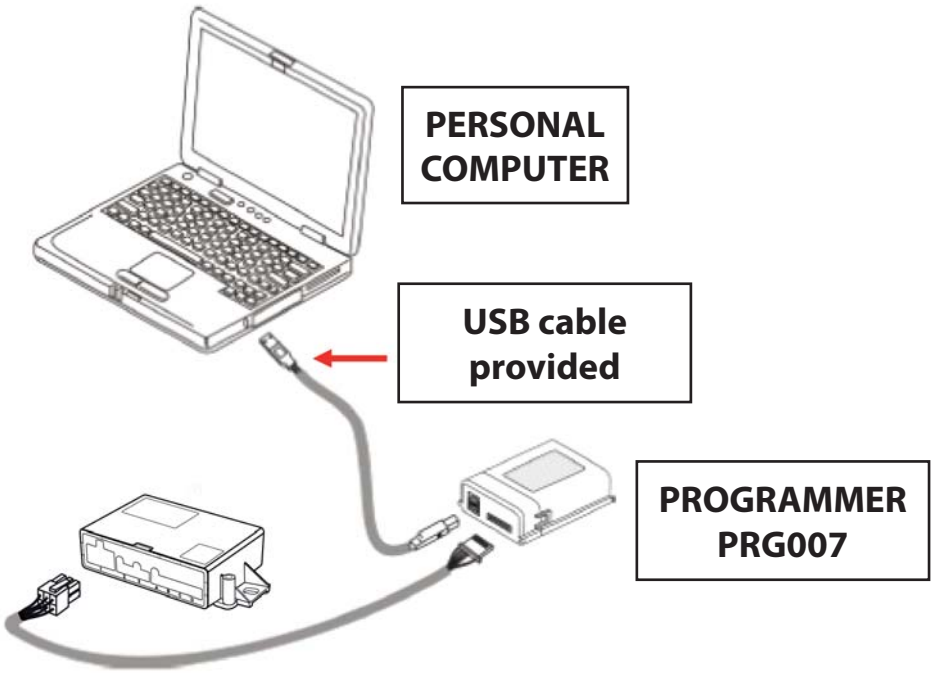
Basic functions:

- **Functions Set-up:** view the accessory functions and the possibility of customising programmable products. Customisation is possible by simply making selections from a drop-down menu.
- **CAN protocol Set-up:** all resident protocols and the ones that are available following software updates can be viewed in the drop-down menu for quick selection.
- **CAN protocol update:** the new protocols and the updates will be made available in the technical area of the website **www.metasystem.it/cardealer**. Accordingly, it will be possible for you to always keep the PRG007 programming interface updated.
- **Saving Set-up configurations:** recurring and most frequently used setting configurations can be saved and re-applied for quick programming on multiple products of the same type.

SOFTWARE AND HARDWARE REQUISITES

Microsoft Windows® XP Home, XP Professional, Vista, Windows 7
Not compatible with Apple Mac and Linux.
The PC must have a USB 2.0 port.

CONNECTION AND SET UP



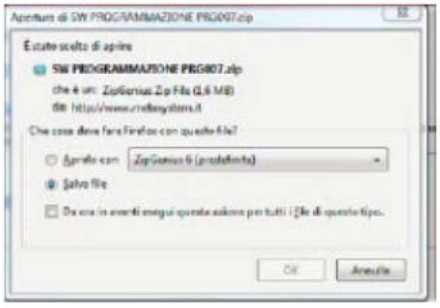
Access the portal **www.metasystem.it/cardealer** , select "Lamborghini", then "Sensori Parcheggio", folder "Programmer PRG007".

1. Before proceeding with the set up operations, make sure that the additional **FrameWork .NET 4.0** component is installed on the PC, otherwise download it from the Microsoft website free of charge:

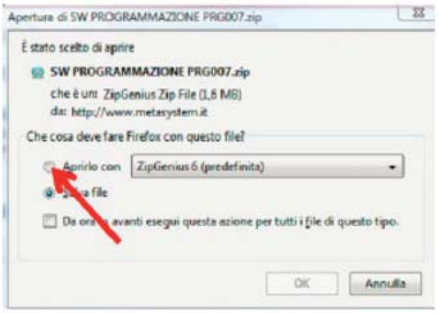
http://www.microsoft.com/downloads/it-it/details.aspx?FamilyID=0a391abd-25c1-4fc0-919f-b21f31ab88b7

MICROSOFT.NET FrameWork 4.0 is required to start up the installation of PRG007 programming software correctly.

2. Download and install the PRG007 application called **"SOFTWARE PROGRAMMAZIONE PRG007 (PRG007 PROGRAMMING SOFTWARE)".**.



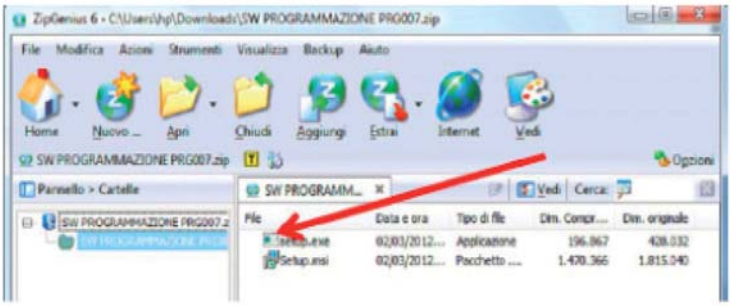
3 Click on **"SOFTWARE PROGRAMMAZIONE PRG007 (PRG007 PROGRAMMING SOFTWARE)"**.



4 Select **APRI (OPEN)** and **APRIRLO CON (OPEN WITH)**, selecting the programme to unzip it.

5 Click on the folder **SOFTWARE PROGRAMMAZIONE PRG007 (PRG007 PROGRAMMING SOFTWARE).**

6 Launch the **SET UP.exe file.**



When installation is complete, the following icon will appear on your desktop or in the applications bar:

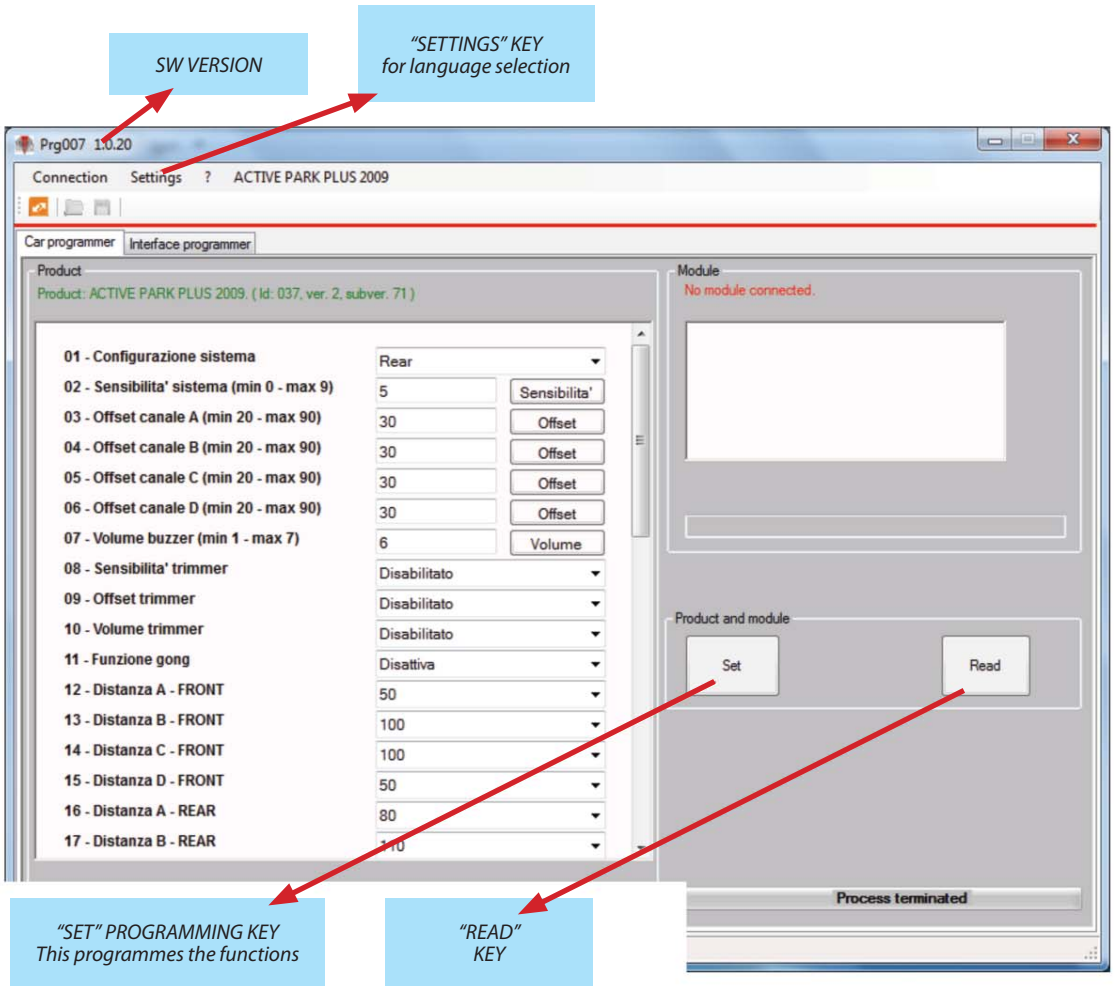
Connect PRG007 and the device that requires programming, as illustrated in the figure above.

The led lights on the PRG007 Programmer flash, meaning that it is correctly powered from the USB port.

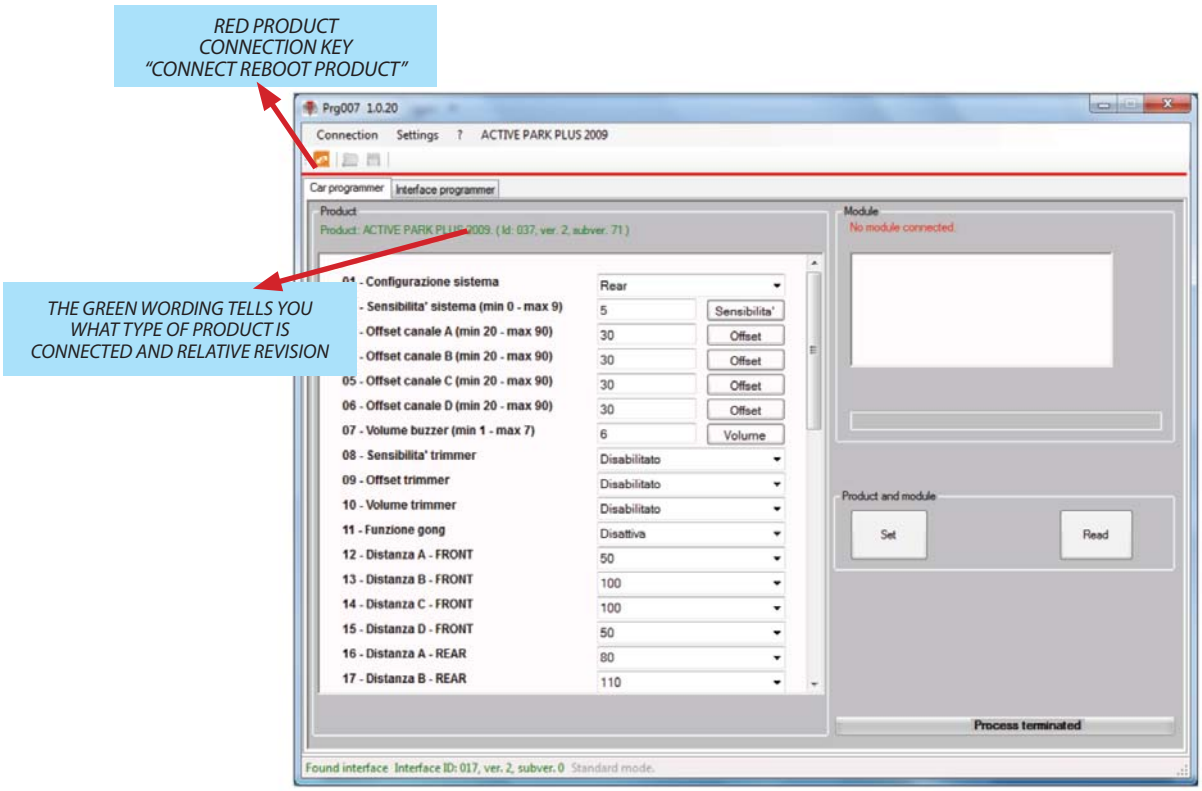
When the PRG007 has been connected to your personal computer, wait for the automatic installation of the PRG007 interface drivers.

PRODUCT PROGRAMMING

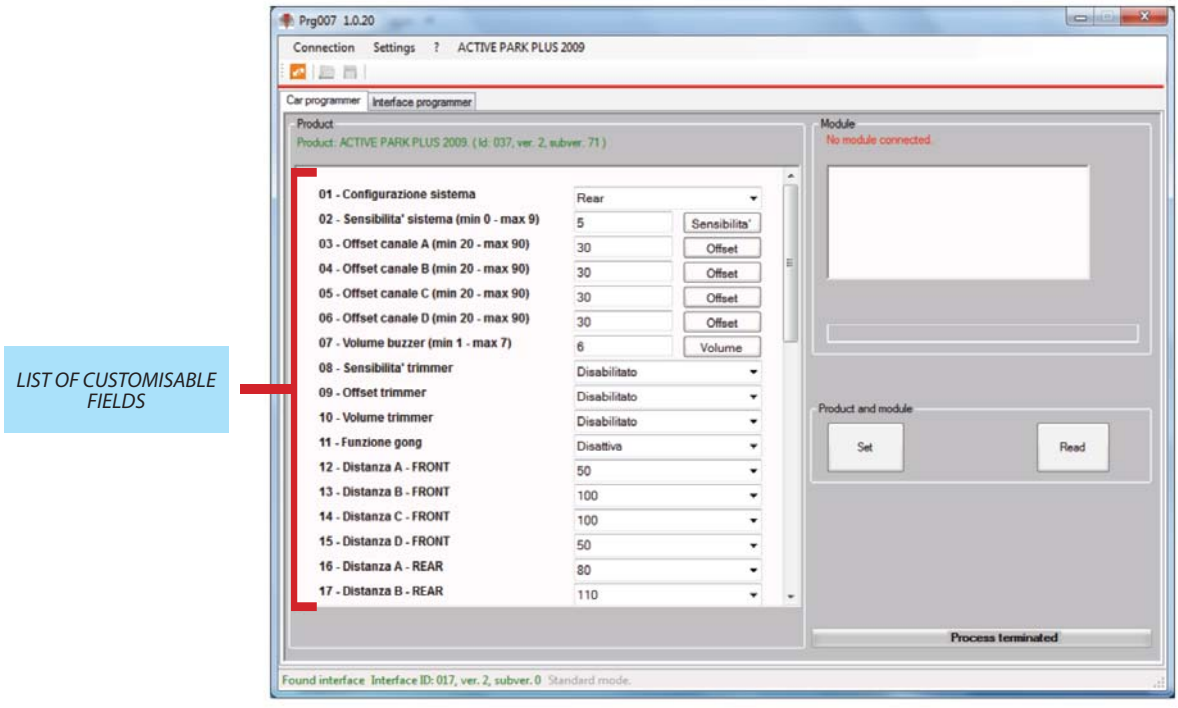
By opening the PRG007 programme, the following screen page will appear:



The connection to the device is set up automatically after a few seconds. It is always possible to force the connection using the red **"CONNECT REBOOT PRODUCT"** key:



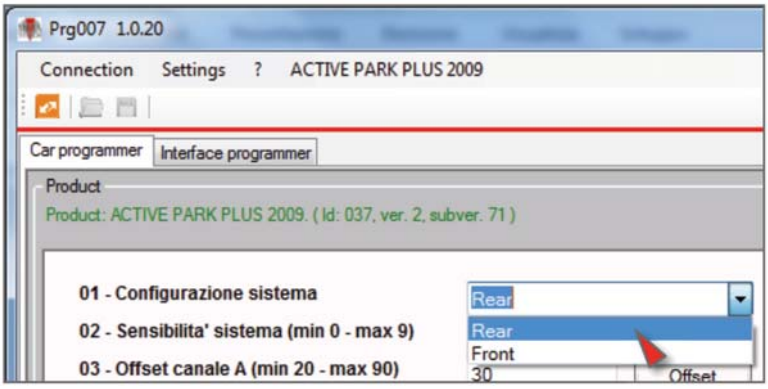
When the functions have been changed and the required module commands have been set, it is possible to transfer programming by pressing the **"SET" command**. All modified functions turn red. The **"READ" command** is used to read the settings.



When you have made your selection from the drop-down menu, transfer the settings by using the **"SET" command**. Wait for the advancement bar to finish downloading. At this point the control unit can be disconnected and installed in the vehicle.

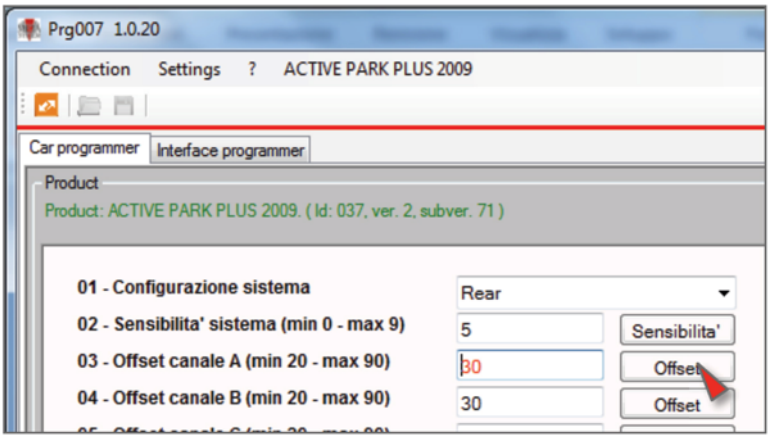
PRG007 SOFTWARE PROGRAMMING CHARACTERISTICS

When the value is selectable from a drop-down menu, is it essential that you select it from there by opening the menu and clicking the required value. **Do not use the keyboard to enter values.**



When the values have been set from the drop-down menu, it is possible to select SET to save them correctly in the control unit.

When the field requires you to enter alphanumerical digits, you will be required to enter the value from the keyboard and, to set the parameter, it is essential that you press the key next to the insertion field.



When the values have been set and recorded, press the READ key to check correct module programming.

LIST OF CONFIGURATION FIELDS

1. System Configuration

This is used to programme the control unit as the Front system without adding the external Button/Led light, or as the rear system (factory setting).

2. System Sensitivity

This makes it possible to read the parking system sensitivity from the software and adjust the sensitivity by temporarily excluding use of the trimmer. Enter values between 0 and 9.
NB: Making the adjustment through the SW excludes the trimmer. To make it operational again you will need to select the "riabilita trimmer (re-enable trimmer)" function.

3. Channel A Offset
4. Channel B Offset
5. Channel C Offset
6. Channel D Offset

The Offset is the distance from an obstacle at which the parking system sounds a steady audible signal. This function makes it possible to read the parking system offset value from the software and to adjust it by temporarily excluding trimmer operation. Enter values between 20 and 90.
NB:Making the adjustment through the SW excludes the trimmer. To make it operational again you will need to select the "riabilita trimmer (re-enable trimmer)" function.

7. Buzzer Volume

This provides you with the speaker volume reading from the software, and allows you to adjust it by temporarily excluding trimmer operation. Enter values between 1 and 7.

NB: Making the adjustment through the SW excludes the trimmer. To make it operational again you will need to select the "riabilita trimmer (re-enable trimmer)" function.

8. Sensitivity Trimmer
9. Offset Trimmer
10. Volume Trimmer

These fields, set on "ABILITATO (ENABLED)", are used to enable adjustment through the 3 trimmers, if they are excluded from Software adjustments.

11. Gong Function

By enabling this function the speaker will signal the obstacle with a series of Beeps, with an added echo effect which softens the sound.

12. Maximum Distance Channel A (FRONT)
13. Maximum Distance Channel B (FRONT)
14. Maximum Distance Channel C (FRONT)
15. Maximum Distance Channel D (FRONT)

From this selection you will access a menu, where it is possible to read and change the distance where each single sensor starts audibly signalling the obstacle. For each channel (A, B, C, D) it is possible to enter the required maximum distance value, in centimetres.

16. Maximum Distance Channel A (REAR)
17. Maximum Distance Channel B (REAR)
18. Maximum Distance Channel C (REAR)
19. Maximum Distance Channel D (REAR)

From these selections you will access a menu, where it is possible to read and change the distance where each single sensor starts audibly signalling the obstacle. For each channel (A, B, C, D) it is possible to enter the required maximum distance value, in centimetres.

20. HW/EEPROM sensitivity (HW/EEPROM Sens.)

This is used to enable or disable the variation of the "system sensitivity" parameters through Eeprom (with programmer) or through HW (with wires).

21. Sensitivity Set-up

By selecting "BASSA (LOW)" in this function you reduce the sensitivity of the parking system to make it suitable for limit applications. This software selection is an alternative to the HW wire connection included in the wiring and to re-enable wire operation simply set the function on STANDARD.
NB: When you decide to change the sensitivity Set-up from the programmer, you will also need to enable the EEPROM mode contained in the "HW/EEPROM sensitivity" function. Otherwise leave "HW/EEPROM sensitivity" in HW mode.

22. Stationary obstacle signal

Through this function it is possible to limit the time that the system sounds an audible signal for stationary obstacles more than 60 cm away To do so simply change the sound selection from CONTINUOUS to TEMPORARY.

23. Duration of stationary obstacle signal

If TEMPORARY is selected as the stationary obstacle it will be possible to change the signal time by setting it in the "Durata segnale ostacolo fermo (Duration of stationary obstacle signal)" function on the programmer.
NB: This function is strictly linked to the "Segnale ostacolo fermo - Stationary obstacle signal" function.

24. Enabling dynamic variation of the speaker volume

When this function is enabled, the speaker volume will vary in relation to the distance from the obstacle, increasing gradually as the obstacle gets closer, reaching the maximum level as it nears the offset. NB: When this function is enabled the volume trimmer is excluded, and to switch it back on again it will be necessary to exclude the "variazione dinamica volume speaker (dynamic speaker volume variation)" function.

25. Enabling dynamic speaker volume variation

This disables the function that varies the speaker volume in relation to the distance of the obstacle, and it re-enables the volume trimmer function.

26. Minimum speaker volume value

This sets the minimum value for speaker volume variation range if "variazione dinamica volume (speaker dynamic speaker volume variation)" is enabled.

27. Maximum speaker volume value

This sets the maximum value for speaker volume variation range if "variazione dinamica volume (speaker dynamic speaker volume variation)" is enabled.

28. Capsule diagnosis

This function is used to detect whether there are problems with one or more capsules, or whether they are not connected, by sounding an audible signal when the system is switched on.

29. Display Position

This defines the orientation of the display for all Active Park systems. It is possible to turn the view upside down.

30. -> .37 TOW-BAR

These parameters must not be changed.

38. Signal when the REAR system is switched on

It is used to exclude the BEEP that sounds when the rear system is switched on when the car is in reverse gear.

39. Signal when the FRONT system is switched on

It is used to enable the BEEP that sounds when the front parking system is switched on.

40. REAR system speaker frequency

This is used to change the frequency of the REAR system speaker from a minimum of 400Hz to a maximum of 1300Hz.

41. FRONT system speaker frequency

This is used to change the frequency of the FRONT system speaker from a minimum of 400Hz to a maximum of 1300Hz.

42. Odometer

This enables the front system to switch off when you exceed the speed value set in field 44.

43. On/Off from odometer

This enables the front system to switch on when you fall below the speed value set in field 44.

44. On/Off Speed

This sets the odometer value to enable and disable the system.

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