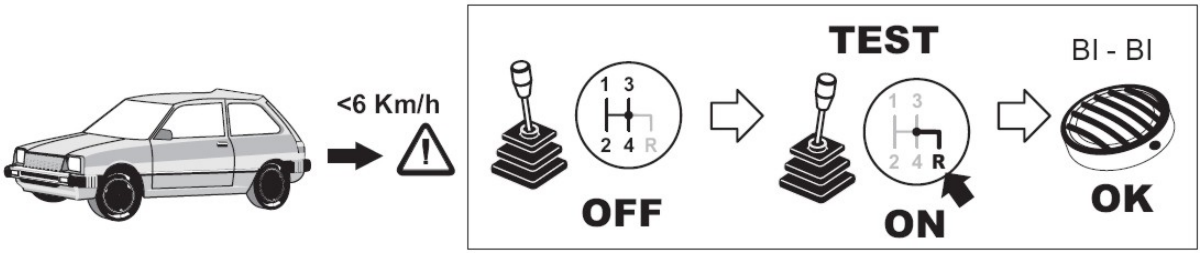
SRS100

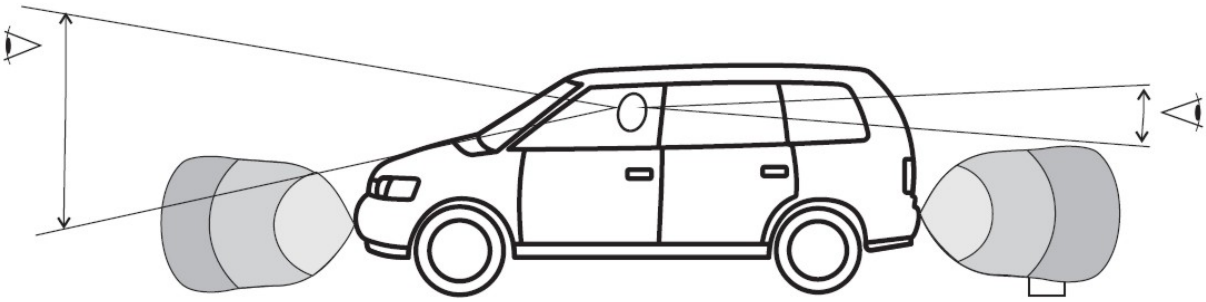
Parkingsystem with 4 sensors

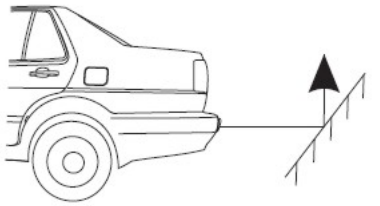
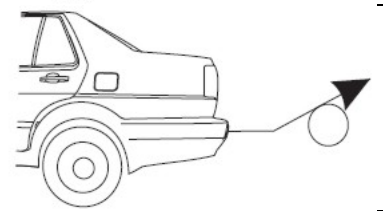
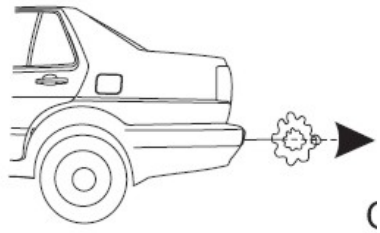
SIGNAT ALARM+

User



Zones of detection



	Smooth slope
	Smooth round object
	Object absorbing wave. e.g. cotton

Standard settings	**Display**	**Distance (cm)**	**<35**	**<40**	**<80**	**<90**	**<150**	**>150**
	buzzer	**Distance (cm)**	**<35**	**<80**		**<150**		
Reduced side control	**display**	**Distance (cm)**	**<35**	**<40**	**<80**	**<100**		**>100**
	buzzer	**Distance (cm)**	**<35**	**<80**		**<100**		
	Alarm sound		**BIIIIIP**	**BIP..BIP..BIP**		**BIP.....BIP.....**		

FUNCTIONING

SRS100 can be installed at the front or rear of the vehicle on all plastic bumpers starting from a minimum height of 40 centimeters (with vertical bumpers).
At the front, it has to be combined with a switch to activate it at the appropriate time, whereas if installed at the rear, it is activated when reverse gear is engaged.
The side sensors can be installed to read closer to the obstacles (the maximum distance is reduced from 150 to 100 centimeters, to ignore obstacles at the sides and generally less significant); the minimum distance remains unaltered.

SRS100 is equipped with 4 sensors to protect the vehicle uniformly, but if the vehicle is small, it can be installed with just 2 or 3 sensors.
A long beep points out when SRS100 activates.

- If there are no obstacles nearby, no other beeps will be heard.
- When approaching them, the sensors start to point them out by beeping quicker and quicker (see table on page 1) starting from the maximum distance of approximately 150 centimeters for those in the centre and of 150/100cm for those at the sides, according to the settings made.
- The buzzer beeps continuously when the reading distance is less than the minimum distance (35 cm).
- When reverse gear is disengaged (or the switch is switched off, if installed at the front) the controller with emit a short beep.

We advise you to combine the DISPLAY with built-in buzzer (optional) to graphically view both the minimum distance (numerical indication) of the sensor nearest the obstacle and the approaching mode: the LED segments light up independently: first blue, then green, yellow and finally red, as you get closer to the obstacle.
The numerical indication of the distance from the nearest obstacle has two figures, in meters and tenths of a meter:
For example:
1.0 indicates the distance of approximately 109 to 100 centimeters;
0.5 indicates from 59 to 50 cm;
0.4 indicates from 49 to 40 cm.

SRS100 is therefore an important aid in maneuvering, but it is always the driver who has to assess the obstacles, maintaining a careful and prudent driving style, so as not to cause damage to property or persons.

VEHICLES WITH TOWBAR OR SPAREWHEEL PROTRUDING FROM THE VEHICLE
SRS100 can be installed on these vehicles too, in which case it is configured during installation. It is able to ignore objects beyond the line of the bumper by at least 15 / 18 centimeters, provided they do not cover the sensors directly.

WARNING:
In this case, all the distances detected will be increased by 20 centimeters.
The buzzer will now beep continuously at a distance of approximately 55 centimeters between the object detected and the sensors (35 centimeters of minimum distance + 20 centimeters for any protrusions: spare wheel, tow bar etc.).

WARNINGS:

- It is possible that some objectss might not be detected correctly, for example, obstacles that are very low, thin, pointed or with reduced reflectivity. **The vehicle maneuvers should always be made with great care and attention.**

- Stop the vehicle as soon as the buzzer sounds continuously because this indicates the presence of an obstacle approximately 35 cm from the sensors (or the minimum preset value).
- Keep the sensors clean of snow, mud or dirt, to prevent malfunctioning.
    - Clean them with water and a soft cloth.
    - Do not use dry or rough cloths to avoid scratching or damaging the sensors.
- **Wash them with jets of pressurized water or jets of steam, maintaining at least 20 centimeters distance from the sensors** under this condition, sensors can temporarily lose some of their sensitivity, which then is restored when the water has completely evaporated.

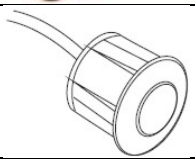
False signals can be given:

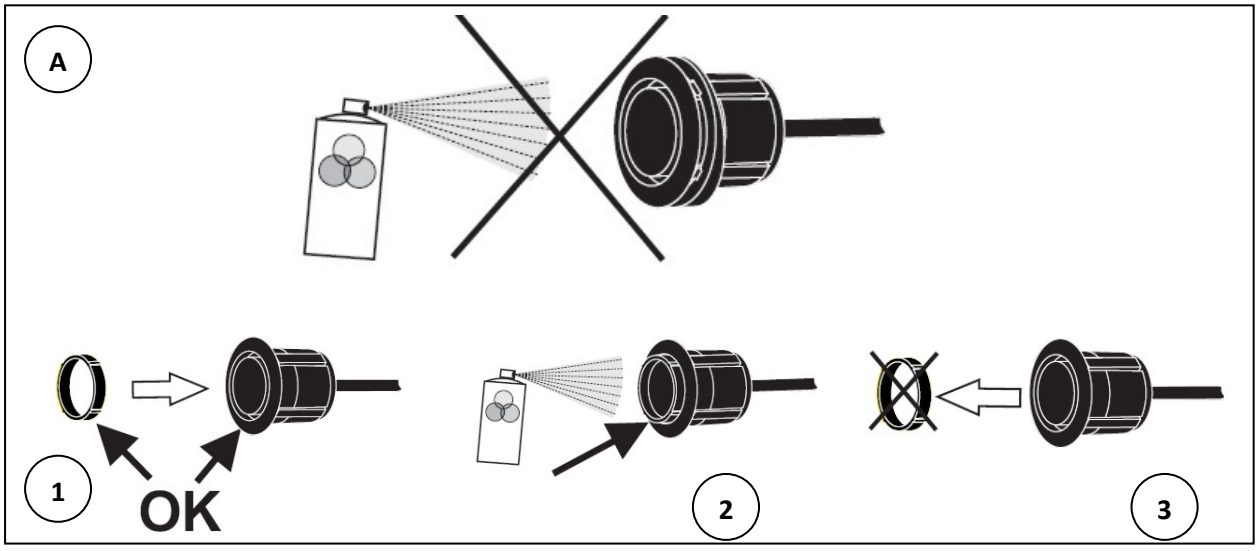
- In cases of strong winds or intense rain.
- In the presence of highly irregular surfaces (snow, mud, dirt roads) or quartzite (material used for paving)
- In the presence of obstacles with poorly reflecting surfaces.

MAINTENANCE

The system does not require any maintenance. The sensors must be kept clean.

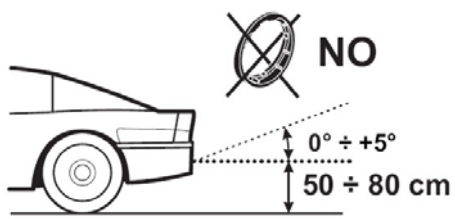
Montage
Samenstelling

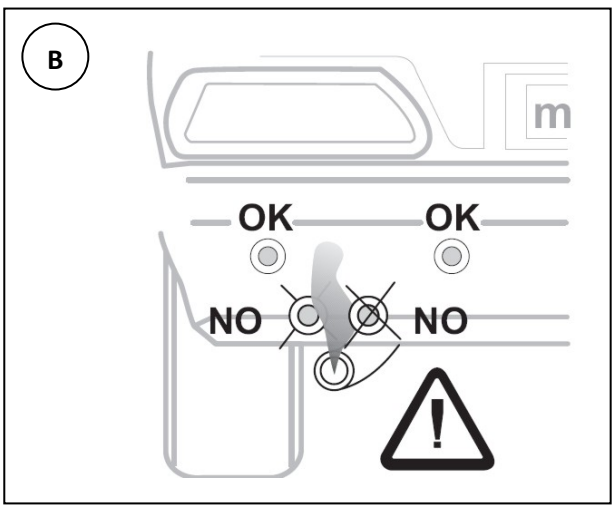
1x SRS194 ECU Signat SRS100		1x SRS195 Buzzer SRS100	
1x SRS198 Sensor		12 x Tiewrap	
1x power supply cable		4x painting ring	
1x screwdriver		4x inclined shims	



C

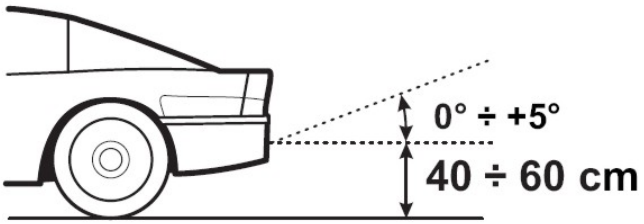
Vertical or slightly upwards raking
Bumpers (in respect to the ground)
More than 50 cm

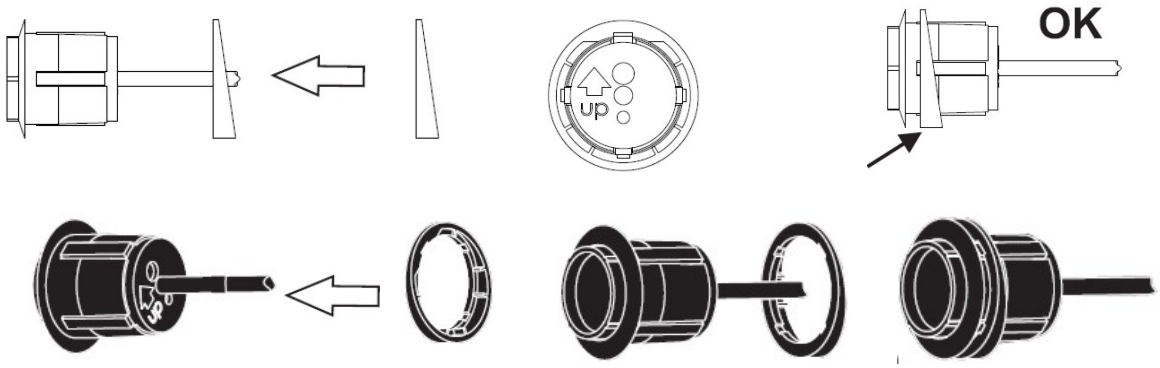




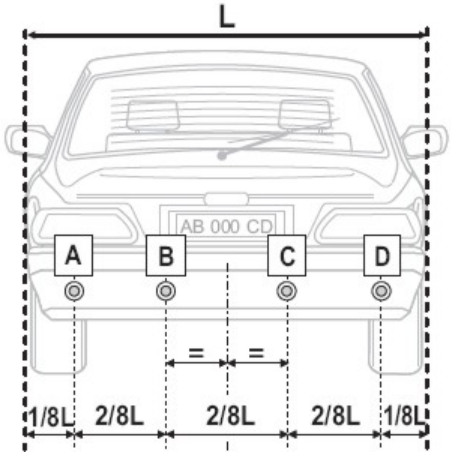
D

Vertical or slightly upwards raking
Bumpers (in respect to the ground)
More than 40 cm



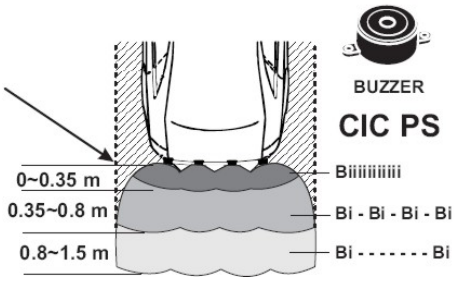


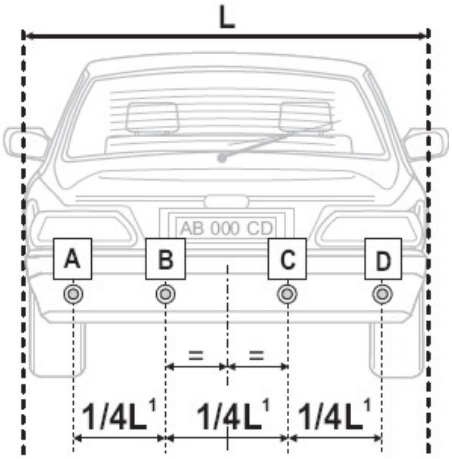
E



L:8= 1/8

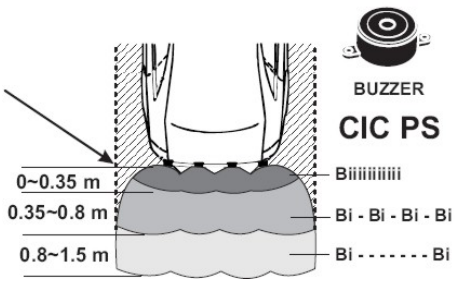
Installation
with increased
side control/
detection.



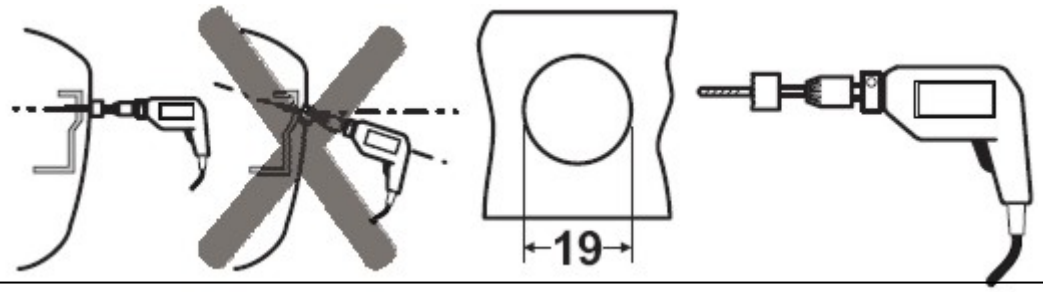


L-12 = L1
L1:4=1/4L1

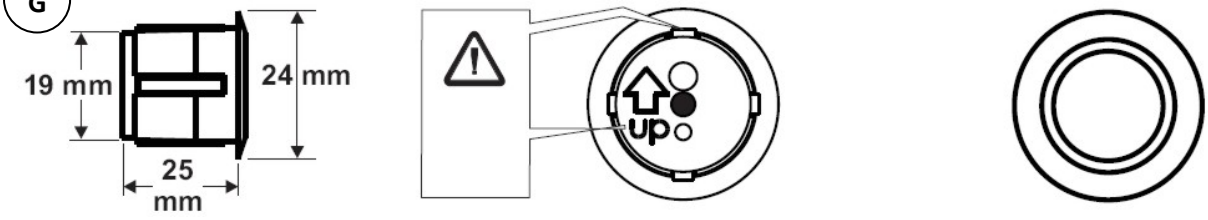
Installation
with redused
side control/
detection.



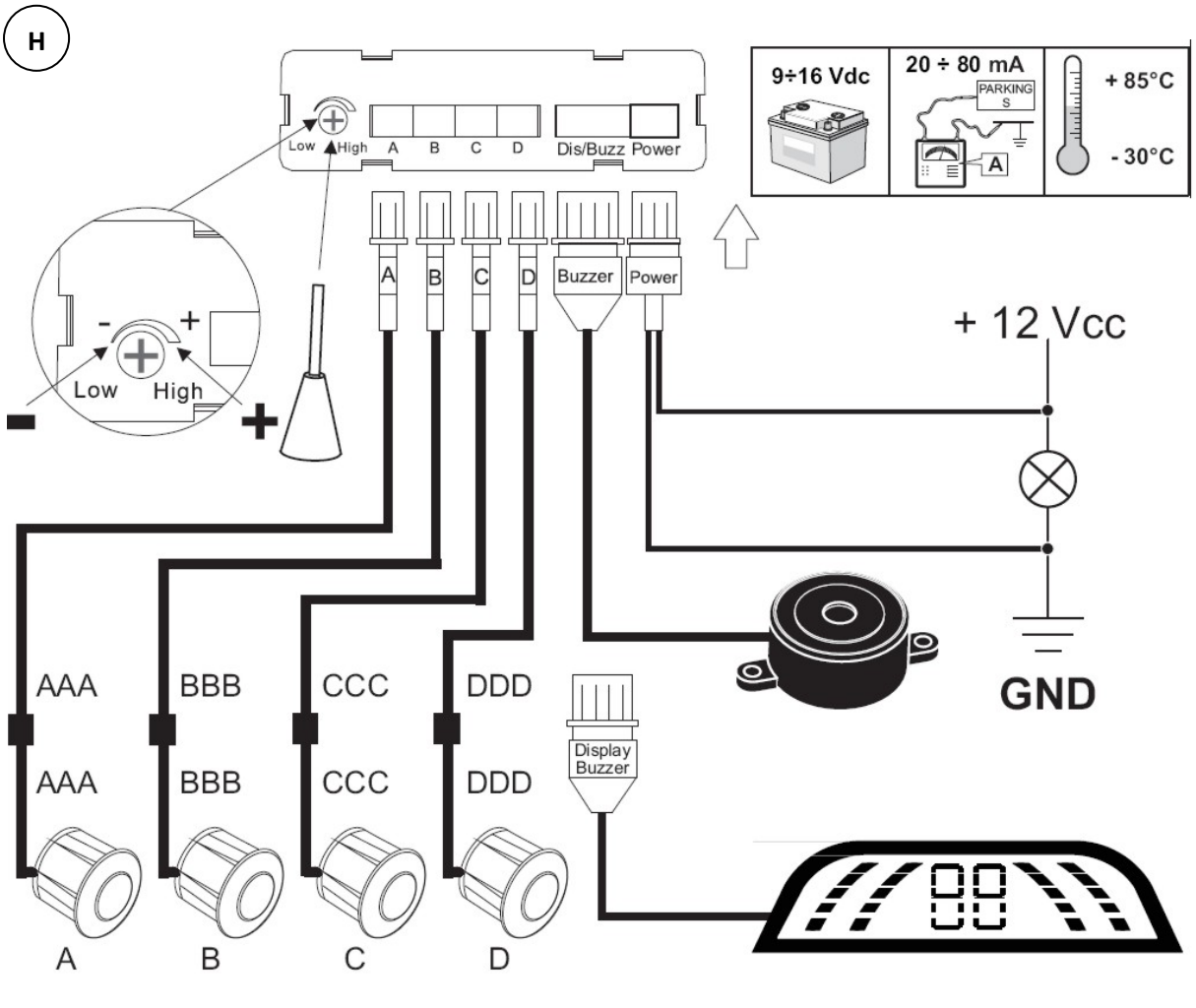
F

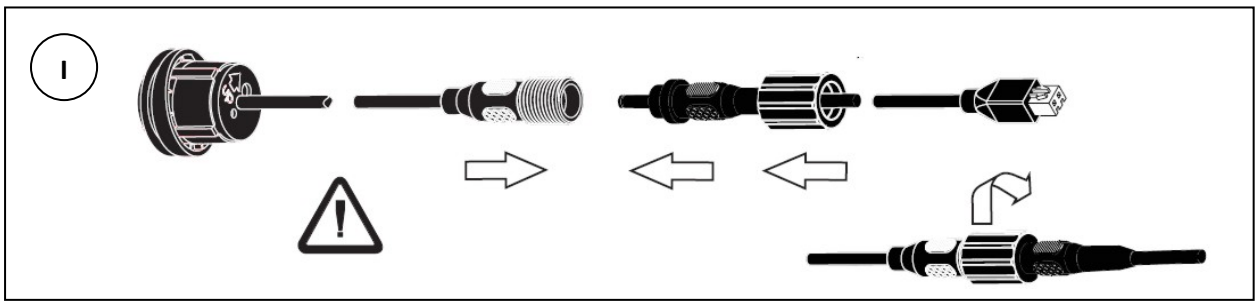

19

G


19 mm
24 mm
25
mm
up

H


9÷16 Vdc
20 ÷ 80 mA
PARKING
S
A
+ 85°C
- 30°C
Low
High
A
B
C
D
Dis/Buzz
Power
Buzzer
Power
+ 12 Vcc
GND
AAA
BBB
CCC
DDD
Display
Buzzer
A
B
C
D



MOUNTING
Before starting installation, carefully read the following instructions.

INSTALLATION OF SENSORS

WARNING:
Sensors for plastic bumpers

1) The sensors are painted, insert the special protection ring of the rubber seal before starting to paint. Fig. A (page 1).
   Remove it after painting.

   WARNING
   - Paint the sensors directly with no pre-treatment.
   - Do not degrease; do not use solvents or thinners.

2) Measure the height off the ground in the centre of the hole that will be drilled, bearing in mind the inclination of the bumper: straight, upwards or downwards.
   Keep at a distance from the exhaust manifold. Fig. B.
   Decide whether the inclined shim needs to be used. Fig. C/D.
   Measure with the vehicle loaded or, in any event, assess how much it may lower in normal conditions of use.
   Generally speaking, under normal conditions of use you can consider approximately 5 cm, therefore you can use the following standard measurements:
   - Use just sensors with vertical bumper and height off ground more than 50cm;
   - Fit the inclined shims in the sensors beforehand for vertical bumper or bumper inclined upwards and height off ground between and 40 60cm.
   - Do not install the sensors less than 40 cm off the ground or less than 50 cm with bumper inclined downwards.

3) Find the centre of the vehicle. Fig. E.
4) Mark the centre of each hole. Drill the holes. Fig. F.

SRS199 - OPTIONAL
Hand tool recommended for making the hole in the plastic bumper.

ELECTRICAL CONNECTIONS

1) Follow the directions reported on fig. H, page 3

2) Fit the sensors with their cables in the bumper, making sure the connector is tight in place. Fig. I .
   WARNING
   - The reference arrow behind each sensor must point upwards. See above and fig. G .
   - The cable of each sensor is marked with a reference letter, which should be followed to connect to the control unit: (A,B,C,D).
   - The correct connection of the cables to the control unit (A,B,C,D) is necessary in particular when reducing the reading of the side sensors (A,D) or with display.
3) Secure the control unit in the boot or inside the vehicle, protected against infiltration of liquid or condensate and against sources of accidental impact.
   Secure the cables of the sensors along their route using the cable ties supplied.
   The cables may also be tied to the original cables of the lights.
4) Secure the buzzer inside the vehicle; alternatively, the DISPLAY (with built-in buzzer) on the instrument panel, in a visible position for the driver, without interfering with his / her clear view.
   Make sure not to obstruct the opening of AIRBAGS or other devices.
   Lay-out and secure the cable up to the control unit, alongside the original cables of the vehicle.
   Couple the four-pole connector on the control unit.
5) Connect the two-pole RED and bLACK power supply cable supplied in the pack:
   - The red wire to the lamp of the reversing light (positive with lamp lit; make sure the voltage is 12 Volt), if the sensors are installed at the rear.
     To a switch to be positioned near the driver, if installed at the front.
   - The BLACK wire to the chassis, to an original earthing point of the vehicle, with the other earthing points.
   - Couple the three-pole connector on the CNTPS, in the connector marked “POWER”.

ASSEMBLING SENSORS' LOCKING RINGS

1) Apply the double-sided tape on the inside of the locking ring leaving its external coating film.
   WARNING:
   Tape must be employed only in a dry environment, with a temperature between 15 and 40°C.
2) If bumper is dirty on the inside make sure to rinse and dry it. Or just dust it. Carefully clean the inside part surrounding the holes using the cleansing towel provided.
3) First insert the sensors in their holes onto the bumpers, then, just before laying out and fix the cables to the central unit, make sure to insert a locking ring.
   From the inside bumper into the cable of each sensor.
   Make sure the the double-sided tape is oriented towards the bumper.

4) Remove tape protection.
5) Keep pressing the sensor from the outside of the bumper, insert the locking ring and carefully push it towards the bumper, making sure to lean all the tape surface onto the bumper.
   Keep pressing the ring and the sensor together for few seconds.
6) Repeat for each sensor.

SETTINGS

	SW1: on for vehicles with tow bar or spare wheel
	SW2: on to reduce reading of side sensors

Notes:

Dealer Stamp:

More information

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