



THE REVERSE MANOEUVRE ALWAYS REQUIRES CAUTION AND ATTENTION  
THE DEVICE INSTALLED MUST BE CONSIDERED AS A DRIVING AID  
AND NOT A SAFETY DEVICE



### MOUNTING PROCEDURE

- 1) Locate a place inside the boot, close the back gear lamp, where can be installed the electronic module (It is highly recommended to fix the electronic module as near as possible to a place from which is possible to easily reaches the exterior of car body with the **connection black cable** of the aerial).
- 2) If it is not possible to find a passage generally closed by a plastic or rubber cap, bore a hole (3-5 mm) in the bodywork (do not use the air intake valve).
- 3) Fix the electronic module on the chosen place using a parker screw or a piece of the special adhesive contained in the kit

### MOUNTING OF THE AERIAL (electromagnetic sensor)

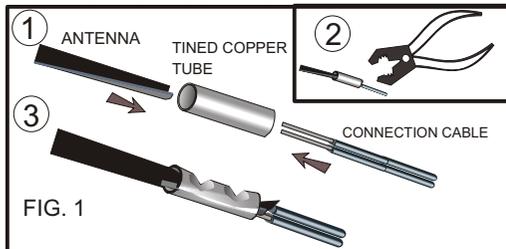
According to the model of the car and the willing of the user decide how the aerial has to be installed. There are two possibilities:

- A. Fixing the aerial **on taking off** the bumper (*SENSOR INSIDE*) recommended when, for a reason of taste, styling feature, etc. the customer prefer to have nothing visible outside the car.
- B. Fixing the aerial **without taking off** the bumper (*SENSOR OUTSIDE*) recommended for a more quick installation and for "do yourself" customer.

### SENSOR INSIDE THE BUMPER

1. Clean carefully the inside part of the bumper, for its complete length, where has to be fixed the autoadhesive aerial. For the more efficient functionality of the system the aerial has to be fixed inside the bumper in a position as far as possible from the ground and the metal body of the car.

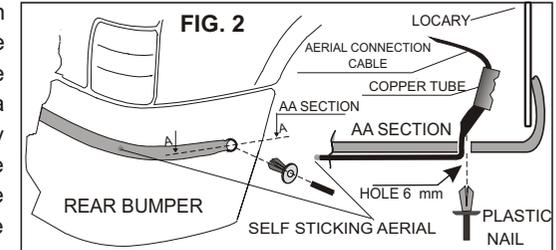
### ELECTRICAL CONNECTION OF AERIAL



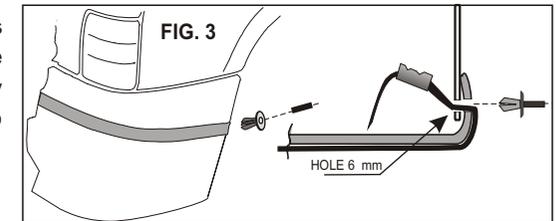
2. Connect the aerial and the connection cable through the tinned copper tube (**FIG.1**) removing the adhesive film from the aerial only for the few necessary centimeters.
3. Starting from the side of the bumper corresponding to the place where has been installed the module, gradually remove the protective film and attach the self-sticking antenna by applying strong pressure up to the opposite side and cutting off the surplus of the aerial.
4. Hold down the two ends of the antenna using two pieces of adhesive material supplied with the kit and replace the bumper while running the connection cable inside the car.

### SENSOR OUTSIDE THE BUMPER

Follow the previous points 1 and 2 with the only difference that in this case the application of the aerial has to be made outside the bumper. In order to obtain a better attachment is recommended to lay down the antenna by using its extensive capability.. The two extremities will be fixed as shown in **FIG.2** or at the inside end of the bumper (**FIG.3**).



5. Connect **both** two wires of the **two wires black cable** to the aerial following the drawings displayed in FIG.1 and finally insert the two poles plug-in connector into the module.

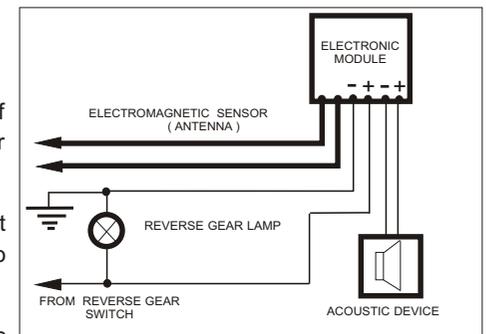


### ELECTRICAL CONNECTIONS

- 1) Connect the two power supply cables as follows:  
**BLACK** : TO A GOOD MASS ON THE CAR BODY  
**RED** : TO THE POSITIVE CABLE OF THE REVERSE GEAR LAMP
- 2) Install the acoustic device (Buzzer) in a good position to ear the acoustic signal and make the connection to the bipolar red/black cable coming from the plug in connector.
- 3) Connect the plug in connector to the electronic module paying attention to check that the indications on the module correspond to the connectors cables.
- 4) Block the cables of the device with insulating tape or clamps so that to avoid any movements **which may cause wrong signals.**

### FUNCTIONAL TESTING

- 1) Turn on the car and engage the reverse gear.
- 2) Slowly approach the car, starting from a distance of about one meter from the center of the bumper (thus simulating a reverse manoeuvre).
- 3) At a distance of about 50-60 cm you will ear the first bip, which will become more rapid getting closer to the bumper.
- 4) The sound increases in frequency only during the approach and then will cease on stopping.



The device has already been calibrated on testing, but this adjustment can be personalized. It is possible in fact to vary the **sensitivity** of the device, to adapt it better to the user's exigencies, by using a little screwdriver on the screw situated on the right of the connector..

To make the system **less sensitive** turn **clockwise**

To make the system **more sensitive** turn **anti clockwise**

**Be** careful not to exaggerate with this last operation because with a too high sensitivity the alarm bip will be generated by the detection of the slow oscillation of the car respect to the ground during back gear parking manoeuvres.

### IMPORTANT ADVICE

The system will operate correctly only if the antenna (sensor) and the electronic module are properly attached and **do not move** in relation to the vehicle structure. Any movement near the antenna, the connection wire antenna-module and the module, no matter how small, will generate signals, which, if not caused by an approaching obstacle will only produce false signals.

### WARNINGS

The user should be aware that, in case of rain, the system may generate false signals as a result of its high sensitivity. In this case, the safety area is automatically reduced while the device can still detect obstacles close to the bumper.

The device will not operate correctly in areas subjected to intense electromagnetic fields, i.e. In proximity to antennas transmitting at various frequencies.

## TECHNICAL CHARACTERISTICS

- OPERATING TEMPERATURE : from -20 to + 70 °C
- OPERATING RANGE : from 10 to 18 V
- MAX. POWER ABSORPTION : 0,3 W
- AVERAGE DISTANCE TO BEGIN DETECTION : 0,6 m
- OBSTACLE APPROACH SIGNAL WITH REPEATING INTERMITTENT SOUND THAT IS INVERSELY PROPORTIONAL TO THE DISTANCE

THE MANUFACTURER DECLINES ALL RESPONSABILITIES FOR DAMAGES TO PERSONS AND/OR THINGS DUE TO AN IMPROPER USE OF THE SYSTEM AND/OR TO A BAD WORKING OF THE SAME CAUSED BY A NON APPROPRIATE INSTALLATION AND/OR TO THE EXCEEDING OF THE TECHNICAL CHARACTERISTICS

## THE EPS-2 OPERATING PRINCIPLE

The **EPS-2** manufactured exclusively by **PROXEL**, is based on an innovative concept that uses low-energy electromagnetic waves.

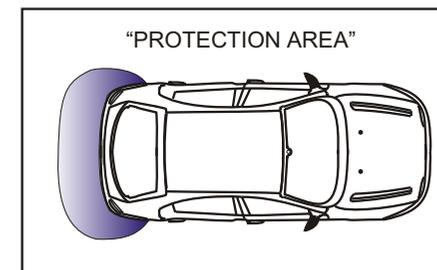
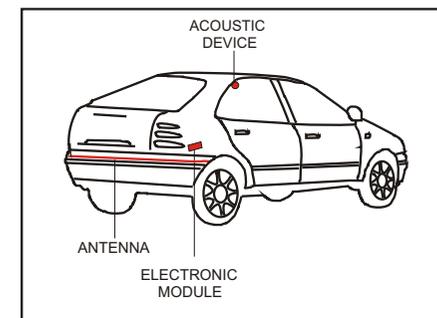
A safety zone is generated around the entire bumper at the same time the device is activated by engaging the reverse gear.

An acoustic signal will be emitted when any obstacle enters the controlled area around the car in which the sensor has been installed.

The repetition frequency of the signal increases as the obstacles gets closer, thus reducing the possibility of a collision

ITALIAN PATENT N.: 01256863

US PATENT N.: 5.682.136



## CERTIFICATE OF GUARANTEE

PROXEL s.r.l.

Guarantees that its products are free from manufacturing defects.

The duration of the guarantee is of 12 months starting from the installation date, which will be determined through the stamp placed by the installer on this certificate of guarantee.

The guarantee is not valid if:

- \* the defect found has been caused by a wrong installation
- \* the product has been tampered
- \* the defect has been caused by the transport or, anyway, it cannot be attributed to the manufacturing material or the manufacturing itself.

FIRST NAME	
LAST NAME	
ADDRESS	
CITY	
Stamp of the firm which has sold or installed the device.	
DATE	SIGNATURE