

## SENSITIVITY ADJUSTMENT FOR THE DETECTOR

Proper adjustment of the detector's sensitivity can be achieved by the following procedures. Please note that the alarm must be armed to adjust the sensitivity.

1. Disconnect the detector's white/red wire until adjustment has been completed. The alarm siren will chirp once for interior and twice for exterior adjustment.
2. Turn the exterior zone to minimum sensitivity and adjust the interior zone to the desired sensitivity, listening for the single chirp which will indicate the size of the interior zone.
3. Adjust the exterior zone, listening for the two chirps which indicates the size of the exterior zone.
4. Re-connect the white/red wire to the alarm, and do a final test.
5. If the LED stays on, then either the white/red or orange wire from the detector is shorted to ground.

Other mounting locations can be tried if poor results are experienced. The maximum exterior sensitivity will vary depending on installation and type of vehicle.

**NOTE :** The detector requires 15 seconds to power up after the alarm is armed. During this period, the detector will not trigger, and the LED will be off.

# DUAL ZONE MICROWAVE DETECTOR

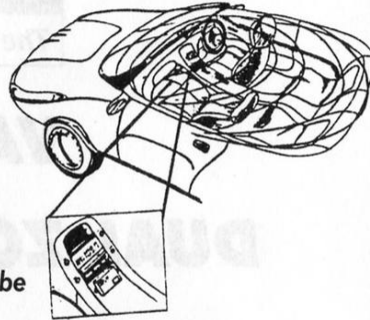
The dual zone microwave detector detects movement of mass through a protected area (i.e. an arm reaching into a car or a door being opened). The detector is only a few microwave sensors that has dual-zone protection. This means that it combines both perimeter pre-intrusion warning and instant interior trigger protection. The larger the mass, the easier it is for the detector to detect it. It does this by transmitting and receiving a high-frequency RF signal. When an object moves towards the vehicle and it is detected by the microwave sensor, the high frequency RF signal will change. This change will cause the microwave sensor to send a trigger signal to the alarm.

While the detector can detect mass movement, it will not give off a false alarms due to wind, rain, air movement, flying insects or vibrations. It is therefore ideal for protecting the interiors of convertibles, Jeeps, or other "open air" vehicles.

The microwave detector, when positioned correctly, will protect the entire vehicle. Because of revolutionary design of the [REDACTED] microwave detector, the RF signal will pass through carpet, glass, plastic, or cloth, but not through metal.

## INSTALLATION CONSIDERATIONS

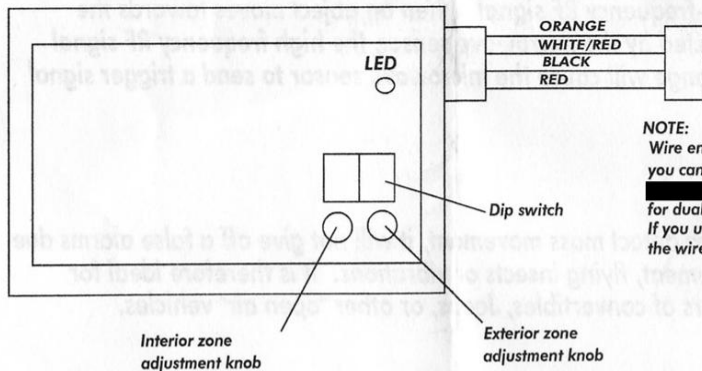
1. The shape of the protection sensor's field is symmetrical and elliptical. The detector must be centered between the left and right side of the vehicle.
2. The sensor should be mounted as low as possible as the protection pattern extends out in front and above the sensor.
3. Do not mount the sensor behind any metal objects, as microwaves will not penetrate metal.
4. Do not mount the sensor on metal as this will affect the sensor's tuning, at least to keep the distance 10mm between sensor and metal.
5. The ideal mounting location is at the base of the rear seat or in the center of the rear seat. If a rear location is not accessible, then mounting the sensor in the dashboard would be suitable, but be aware of any metal objects like the stereo or brackets.



## SPECIFICATION:

- |                      |   |
|----------------------|---|
| 1. Standby Current : | 10 mA +/- 2 mA                                |
| 2. Input Voltage :   | 9 V min, 15 V max                             |
| 3. Trigger Output :  | 1. 1st stage trigger output -VE, 100mA (max.) |
|                      | 2. 2nd stage trigger output -VE, 100mA (max.) |

## WIRING DIAGRAM



**NOTE:**  
Wire end has pre-wired 4 pins connector, you can plug-in to [redacted] alarm system directly.  
for dual zone optional sensor trigger.  
If you use it for other car alarms, please cut the wire end connector down.

## WIRING CONNECTION

Wire color	Description
Red	Connect to constant power +12V
White/red	Connect to -VE trigger input of alarm system(interior zone output)
Black	Connect to -VE arm output of alarm system(Ground)
Orange	Connect to -VE input of siren(exterior zone output)

## ADJUSTING AND OPERATING THE DETECTOR

The microwave sensor has two dip switches. The switches are used to program and operate the sensor. The four functions of the switches are :

Mode	Exterior Adjustment	Interior Adjustment	Arm mode	Arm W/PER. Alarm
SW#1	ON	OFF	OFF	ON
SW#2	OFF	ON	OFF	ON

## EXTERIOR ZONE ADJUSTMENT

(Alarm must be armed to adjust)

This mode allows you to adjust the sensitivity of the exterior detection zone. The detector will not trigger the alarm in this mode, but the LED will flash "green" when movement is detected. To increase sensitivity, turn the exterior adjustment knob clockwise. The maximum exterior sensitivity will vary depending on installation and the type of vehicle.

## INTERIOR ZONE ADJUSTMENT

(Alarm must be armed to adjust)

This mode allows you to adjust the sensitivity of the interior detection zone. The detector will not trigger the alarm in this mode, but the LED will flash "red" when movement is detected. To increase sensitivity, turn the interior adjustment knob clockwise.

**IMPORTANT :** An operational problem may occur with the radar if the interior sensitivity is greater than the exterior sensitivity (i.e. the unit will false alarm). In this case, the LED will flash "yellow" when the switches are put into the arming mode.

## ARM MODE

When the alarm is armed, the detector will power-up for 15 seconds. During this period, the LED will be solid "green". After 15 seconds, the [redacted] will operate normally. When the exterior zone is penetrated the siren will chirp and the LED will flash three times. This also activates the interior zone. when the interior zone is penetrated, the LED will flash "red" and the alarm will be triggered.

## ARM MODE WITH PERIMETER ALARM

In this mode the detector will operate exactly as it would in "ARM MODE", except that if the perimeter zone is penetrated 4 times within 15 seconds, the [redacted] will trigger the alarm. After the perimeter is penetrated a second time, the siren will beep twice, warning you that the alarm will trigger if the perimeter's field is penetrated a fourth time.