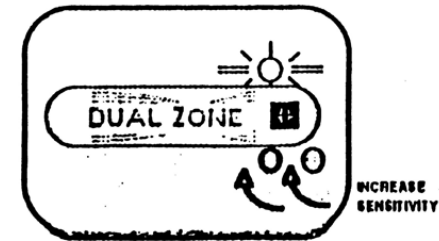


In general, the above diagram illustrates the fields produced by the DUAL ZONE sensor. It is important to know that although the energy from the DUAL ZONE sensor can be roughly symmetrical around the car, the energy is altered by metal. Thus, your actual protection zones may vary depending on the structure of your car. The mounting location of the DUAL ZONE sensor will be unique for each installation. The sensor must be mounted securely for reliable operation! During the adjustment phase of the installation, it may be determined that another location is required. Here are some tips on sensor installation:

TROUBLESHOOTING

INDICATOR	PROBLEM	SOLUTION
SOLID YELLOW LED	A sensor output is connected to 12 volts.	Verify that each sensor output is connected properly
FLASHING YELLOW LED	The exterior zone sensitivity is less than the interior zone sensitivity.	Increase the sensitivity of the exterior zone, or decrease the sensitivity of the interior zone.
NO LED	The radar does not power-up, adjust, or operate normally	<p>Connect the red wire of the radar to 12v. Check the 12 volt fuse.</p> <p>Connect the black wire of the radar to the armed output of the alarm.</p> <p>Check if the alarm is arming properly.</p> <p>If the alarm does not have an armed output, verify that the latching relay circuit is connected properly.</p>
SIREN SOUNDS WHEN THE PERIMETER ZONE IS TRIGGERED	The exterior radar output is connected to the auxiliary input of the alarm.	Swap the radar green and blue wires.

ADJUSTMENT and OPERATION



OPERATE



EXTERIOR ZONE ADJUST

The switches in this position enable you to adjust the sensitivity of the exterior motion detection zone. You must arm the alarm to adjust the sensor. The sensor will not trigger the alarm in the adjust mode, but will flash the green LED and beep the piezoelectric beeper when motion is detected. To increase sensitivity, turn the exterior potentiometer in the direction shown in the illustration above. There can be a potential radar operational problem if the exterior sensitivity is less than the interior sensitivity. In this case, the LED will flash yellow and the beeper will sound when the switches are put into the operate mode. The maximum exterior sensitivity will vary based on the type of vehicle and installation location.

OPERATE



INTERIOR ZONE ADJUST

The switches in this position enable you to adjust the sensitivity of the interior motion detection zone. You must arm the alarm to adjust the sensor. The sensor will not trigger the alarm in the adjust mode, but will flash the red LED and beep the piezoelectric beeper when motion is detected. To increase sensitivity, turn the interior potentiometer in the direction shown in the illustration above. There can be a potential radar operational problem if the interior sensitivity is greater than the exterior sensitivity (i.e. false alarms). In this case, the LED will flash yellow and the beeper will sound when the switches are put into the operate mode. The maximum interior sensitivity will vary based on the type of vehicle and installation location.

OPERATE



NORMAL OPERATION WITH PERIMETER ALARM

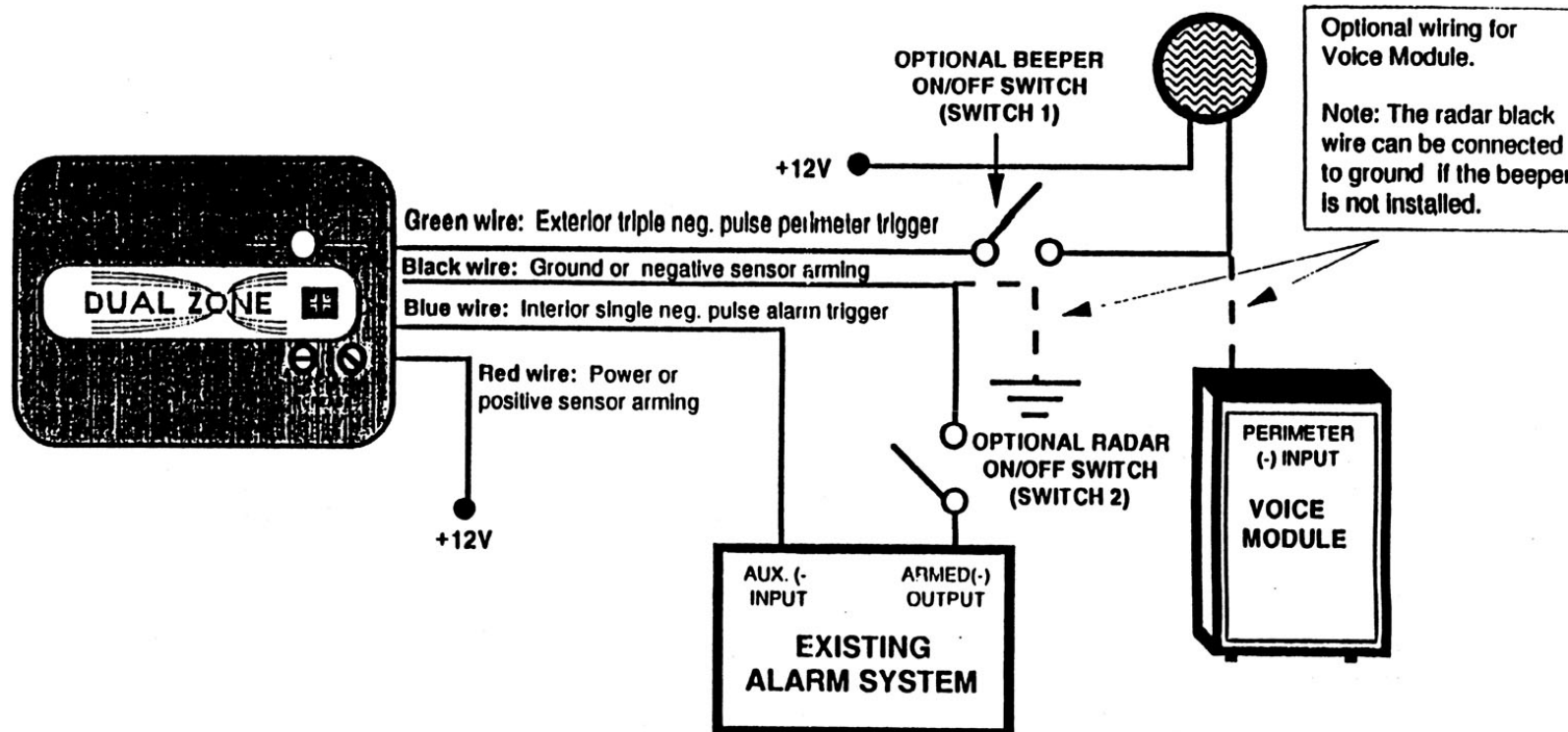
In this mode, the radar sensor will operate the same way as normal operation with no perimeter alarm except as follows: If the perimeter field is triggered 3 times within 10 seconds, the radar sensor will trigger the alarm. After the second perimeter trigger, the beeper will sound a double beep warning you that the alarm will be triggered if the perimeter field is triggered a third time.

OPERATE

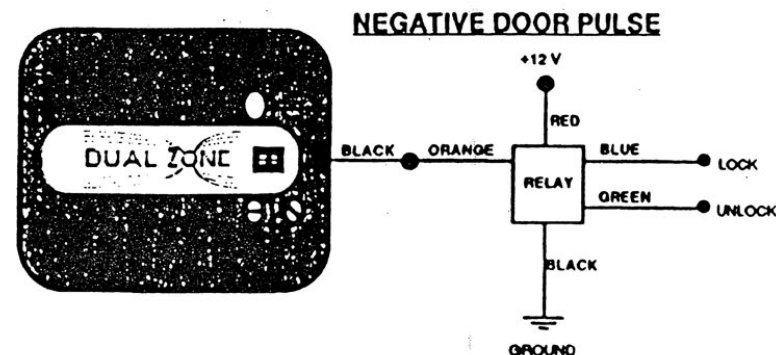
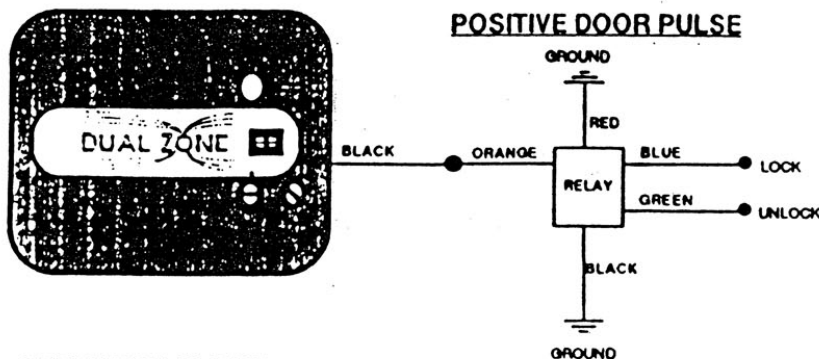


NORMAL OPERATION WITH NO PERIMETER ALARM

When the alarm is armed, the radar sensor will power-up for 10 seconds. During power-up, the LED will be solid green and the sensor will not trigger the beeper or the alarm. After 10 seconds, the radar will operate normally. When the exterior field is triggered, the beeper will sound and the LED will flash three times. The interior zone is activated while the LED flashes and the beeper sounds. When the interior field is triggered, the LED will flash red and the alarm will be triggered.

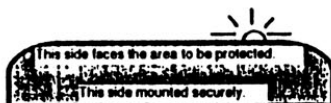


NOTE: A latching relay is needed if there is no negative armed output with the alarm system. The relay shown here will convert the door lock and unlock outputs into a negative armed output.



OPERATION IN RAIN

- The Dual Zone Radar Sensor's perimeter field can be very sensitive. Rain can potentially cause the perimeter beeper or voice module to be activated. An optional switch (switch 1) can be installed to turn off the beeper or voice module.
- If the Dual Zone Radar Sensor is operated with a perimeter alarm, rain can cause the alarm to be triggered. An optional switch (switch 2) can be installed to turn off the radar sensor completely.
- Mounting the Dual Zone Radar sensor vertically and facing toward the back seats may decrease false perimeter warnings during the rain.



- The face of the radar is the logo side of the case. Point the face towards the area to be protected in the car.
- The ideal location is in the middle of the car and at a medium height (in the console between the front seats).

- Do not mount the radar on or near metal objects.
- Do not face the radar towards metal objects.
- Do not mount the radar in a location where movable objects will be placed near the sensor (i.e. coins or coffee cups).