

# RADAR MESSAGE BOARD GUIDELINES

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We request that all users abide by the following set of guidelines. These guidelines were established to maintain an acceptable level of safety for users and to keep the equipment performing at its best.

## GUIDELINES

1. The Radar Message Board (RMB) is permitted for use in daylight hours only.
2. The RMB will NOT be permitted to operate under the following environmental conditions:
  - rain, snow, fog or any other form of precipitation
  - strong winds
3. The RMB will be operated at all times by at least 1 adult over the age of 21.
4. A maximum of five (5) days is allowed per neighbourhood.
5. RMB equipment may only be operated on streets which are residential frontages.
6. To meet minimum required sight line standards, the following distances shall be maintained at ALL times:
  - RMB equipment, including LED Display Sign shall be set back from the curb/edge of pavement a minimum of 1.0 metre (3'4").
  - RMB shall not be set-up closer than 30 metres (98'5") to any intersection.

## INSTRUCTIONS

The 12V battery pack provided with the unit is designed to last 7-8 hours before it requires recharging. Please keep this in mind while operating the unit, as the battery will only be charged at the Civic Centre).

<b>Equipment Provided</b>	<b>QTY</b>
Radar antenna & carrying case	1
Antenna cable (25')	1
LED Display Sign (3 digit)	1
Power Cable (6')	1
AC Power supply	1
Support Stand (Tripod)	1
12V led acid battery & carrying case	1
Speed Limit Sign (40, 50, 60, 80 km/hr)	1

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## SET-UP

When connecting the cables to the sign, match the connector pins to the corresponding socket. **NOTE:** Match the Small Groove in the Connector with the socket groove. Do not turn the unit on until you have made your connections. Screw the outer ring of the connector onto the receptacle to ensure proper connection. During power up, the sign will initiate a segment self-test routine, once completed, a “dot” or decimal point will flash periodically indicating correct operation. Set up the sign on a level surface at the side of the road (following the required guidelines).

## SPEED DISPLAY

The sign displays speed in a 3 digit LED format in km/hr. The LED's are high intensity for superb visibility even in bright sunlight. A built-in auto dimmer circuit reduces intensity during low ambient light.

The speed sign is simple to operate, but always requires someone to stay with the unit. Each time an object's speed is measured, its velocity is continuously updated and held for approximately 4 seconds. The digits then clear and rest for the next measurement. If the next object immediately follows the previous one, its speed will take over and be displayed.

## TRANSMITTED BEAM

The antenna (gun) transmits a narrow cone-shaped circular polarized wave, similar to a flashlight beam. This beam cannot be seen or felt, and travels at the speed of light in a straight line until it hits solid objects, which reflect or bounce the beam in various directions. The part of the beam which is returned to the gun is what is used to measure the speed. **DO NOT** use the RMB in high traffic volumes, as the unit will not be able to process mass amounts of traffic.

## ROAD OPERATION

Be sure to clock vehicles heading directly towards or away from the sign and not traffic in the distance or opposite lanes. Aim the gun slightly down towards the road surface. This will help target the selected vehicles. The system is designed to function in temperatures ranging from – 20 C to +50 C, and in 90% relative humidity (no condensation). The sign is water resistant, but **NOT WATERPROOF**.

While radar technology is considered safe, it is a recommended practice to point the radar gun away from your body and not pointed directly at other people.

## PLEASE NOTE

If any of the above conditions are not adhered to, the unit will be seized. Should loss or damage of the unit occur as a result of neglect, the person signing the Agreement will be held responsible for the repair or replacement of the damaged equipment.