

MAGNETIC MOUNTING:

This is the most commonly used temporary attachment method. It relies on the magnetic adhesion between the vehicle roof surface and a magnet (or multiple magnets) fixed to the beacon base. Neoprene covers may be placed over the magnet to prevent direct metal to roof contact which is likely to damage the vehicle paintwork, however, the use of a neoprene magnet cover will reduce the magnetic adhesion force between the magnet and the vehicle roof. Whelen® magnetic beacons are supplied as standard with a single central mounted magnet with no cover. Under normal operating conditions this will be suitable for low speed and static use. Where it is intended to use a beacon with this method of temporary fixing whilst the vehicle is in motion, we recommend the 3 point magnetic fixing detailed below, which is available for the L32 low profile beacon or the 4 point attachment for the RESPONDER and 6POD mini lightbars. The 6POD also features automatic roof profile adjustment which allows the magnets to adjust to various roof profiles maximising magnetic adhesion.

* Please refer to the warning notice below for more information regarding magnetic attachment of beacons.

MAGNETIC/VACUUM:

This is a combination of magnet and rubber suction cup. The magnet pulls the beacon onto the vehicle roof and compresses the rubber suction cup forming a vacuum which provides additional adhesion. This method is less likely to damage the vehicle paintwork. Whelen® magnetic/vacuum beacons*, are supplied as standard with a single central mounted magnet/vacuum assembly. Under normal operating conditions this will be suitable for low speed and static use. Where it is intended to use a beacon with this method of temporary fixing whilst the vehicle is in motion we recommend the 4 point attachment for the RESPONDER and Justice mini lightbars.

* Please refer to the warning notice below for more information regarding magnetic attachment of beacons.

QUICK RELEASE:

This provides the most secure temporary mounting method that particularly suitable for mini lightbars, and is popular on leased vehicles where good quality lighting is required and damage to the vehicle must be minimised during its use. A vehicle specific 'Thule' roof cross bar must be purchased. This is modified to allow the mini lightbar with the corresponding quick release base to be attached. The method of attachment and removal is simple, in addition a security screw prevents unauthorised removal once fitted. The Thule roof bar may be removed should the vehicle not require temporary lighting at any time or when the vehicle is disposed of.

WARNING

The use of any magnetically or magnetic/vacuum mounted warning device on the outside of a vehicle in motion is not recommended and is at the sole risk and responsibility of the user.

Before using a magnetic or vacuum mount beacon on a moving vehicle the following factors noted below should be considered. Each factor will to varying degrees contribute to the magnetic/vacuum adhesion being lost and the beacon becoming detached from the vehicle posing a risk to other road users.

- The higher the speed that the vehicle is travelling, the greater the force that will be exerted on the beacon.
- Headwinds, crosswinds, turbulence from other vehicles and forces exerted when cornering, braking or accelerating may exert sudden unpredictable forces on the beacon.
- The surface condition of the vehicle roof due to the presence of water, ice or road contamination will compromise suction and reduce magnetic adhesion and will act as a lubricant that may cause the beacon to move.
- The use of rubber or neoprene magnet caps to prevent scratching of the vehicle roof will reduce the magnetic adhesion force.
- The thinner the gauge of metal used in the manufacture of the vehicle, the lower the magnetic clamping force available.

