

USER MANUAL

MAAS KMA-100 CB Magnetic Antenna | Item No. 150117

The MAAS KMA-100 is a compact CB mobile antenna for the 26.5 to 28 MHz frequency range. The magnetic base allows for quick vehicle mounting without drilling.

1. Fitting the antenna

For installation, select the largest possible flat, magnetic metal surface on the vehicle. For good radio performance, we recommend a position that is as unobstructed as possible, preferably on the vehicle roof.

IMPORTANT: Before attaching the antenna, carefully clean both the vehicle surface and the underside of the magnetic base. Dust, sand, metal shavings or other dirt particles can cause scratches and damage to the paintwork when attaching, moving or removing the antenna.

The mounting surface must be flat and sufficiently large. The entire underside of the magnetic base must lie flat against the surface. This is the only way to achieve maximum magnetic holding force. Carefully place the antenna on the cleaned surface and do not drag the magnetic base across the vehicle's paintwork. To remove it, lift the magnetic base carefully.

2. Connection and Commissioning

Route the coaxial cable through the vehicle interior in such a way that it is not crushed, severely kinked or damaged by sharp edges. Connect the PL-259/PL plug to the antenna socket on the CB radio and tighten it hand-tight.

Before transmitting, the standing wave ratio (SWR) should be checked using a suitable SWR meter. The mounting position and size of the metal surface on the vehicle can affect the SWR and radiation pattern. If the SWR is significantly too high, do not transmit; instead, check the installation and the antenna system.

3. Technical data

Feature	Value
Frequency range	26.5 – 28 MHz
SWR	< 1.3
Gain	3 dBi
Bandwidth	600 kHz (SWR < 2)
Impedance	50 ohms
Max. power	200 W
Polarisation	vertical
Element length	880 mm
Magnetic base	Ø 100 mm
Cable length	3.9 m
Connector	UHF male / PL-259
Material	Copper / stainless steel

4. Safety instructions

- Before each journey, check that the magnetic base is secure and firmly in place.
- Only mount on a flat, clean and sufficiently large magnetic metal surface.
- Never move the antenna across the vehicle's paintwork.

- Always remove the antenna before entering car washes.
- Be aware of the additional vehicle height when approaching garages, multi-storey car parks, bridges, tunnels, tree branches and other obstacles.
- Adhesion may be compromised at high speeds, in strong winds or under extreme weather conditions.
- Keep a safe distance from overhead cables and high-voltage power lines. Touching or coming dangerously close to them can be life-threatening.
- During transmission, ensure there is sufficient distance between people and the antenna radiator.
- Check the antenna, magnetic base, coaxial cable and connectors regularly for damage. Do not transmit with a damaged antenna system.
- Do not exceed the maximum permitted transmission power and observe the applicable legal regulations for CB radio operation.

5. Care and storage

Clean the magnetic base and the vehicle's surface regularly. Before each re-installation, ensure that there are no grains of sand, metal shavings or other dirt particles on the contact surfaces. If the antenna is not to be used for an extended period, remove it from the vehicle, clean it and store it in a dry place.

Manufacturer's specifications

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Subject to technical changes. As at: September 2026