

4000-900-01 VHF VEHICLE ANTENNA

As used in
BOWMAN
equipment

APPLICATION

The VHF vehicle mounted monopole antenna is an end fed antenna suitable for all platforms that present a ground plane. The antenna gives a good electrical length and is wideband over the frequency range of 30-88MHz. The antenna base has a 111mm pcd 3 or 6 hole NATO with 4 hole US pattern mounting options on request. The overall length of the antenna is 2.6m thereby presenting a more covert profile than a centred dipole antenna. The antenna can be used with only one section erected for use by forward reconnaissance elements. When using one section reduced performance can be expected.

EQUIPMENT

Equipment	Qty	Part Number
Upper Element	1	4000-107-01
Lower Element	1	4000-108-01
Vehicle Mount Base Assembly	1	4000-104-01



TECHNICAL SPECIFICATION

ELECTRICAL SPECIFICATION	
The specifications in this section apply when the antenna is wing mounted on a Land Rover ¾ ton Defender series	
Frequency Range	30 - 88 MHz
Power Rating	100W (CW)
Connection	50Ω BNC female
Input Impedance	50Ω nominal
VSWR	Full length antenna ≤ 3.5:1
Pattern	Omni-directional
Polarisation	Linear vertical
MECHANICAL SPECIFICATION	
Design	The antenna is a two-piece glass-fibre construction, using high quality stainless steel fittings, mounted on a high-pressure moulded composite base
Height	2600mm
Weight	2.71kg overall
Sections	Base: 2.18kg Upper Section: 0.2kg Lower Section: 0.33kg
Finish	The antenna base is a robust high-pressure moulded composite (HMC) moulding. The elements are finished in infra-red reflective paint NATO Green
Optional	Elevation Kit 4040-900-01
ENVIRONMENTAL SPECIFICATION	
This product has been fully tested to meet Military environmental conditions of DEF STAN 00-35	

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Racal reserve the right to vary in detail from the description and specification in this publication. Issue: 08/03