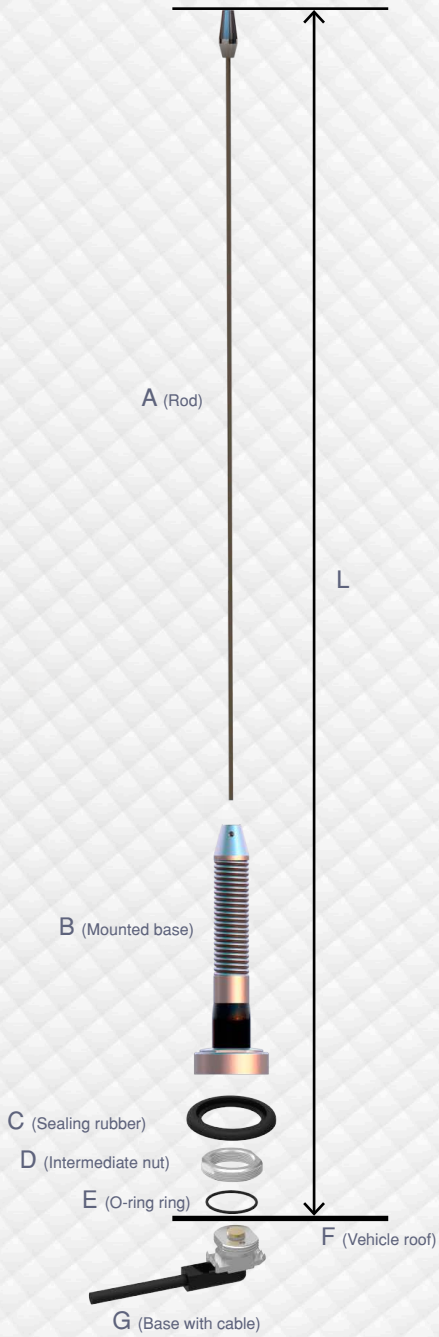
ASA-100MV

ASSEMBLY SEQUENCE

1 - Drill a 19mm hole in the geometric center of the vehicle's roof, making sure there is no structural reinforcement in this position. Be careful with the interior lining of the ceiling.
2 - Pass the unconnected end of the coaxial cable through the 19mm hole, from the outside to the inside of the vehicle, positioning the base (G) mounted on the other end of the coaxial cable. Lubricate the exposed part of the o-ring (E) that is already fitted to the intermediate nut (D) with petroleum jelly. This ring will be responsible for sealing. Using round-nose pliers inserted into the two upper holes of the base (G), screw on the intermediate nut (D), using a 24mm open-end wrench, tighten it.
3 - Insert the rod (A) into the assembled (B), threading it into the intermediate nut (D) on the sealing rubber (C), giving the final tightening with a 25mm open-end wrench.
4 - Mount the coaxial connector, check with a continuity meter whether there is a short between the cover and the central pin of the coaxial connector and continuity between the central pin of the connector and the rod.
5 - After this assembly, insert an appropriate Wattmeter between the transceiver and the antenna. Use the table below as a reference for cutting the rod (A) at the desired frequency or central frequency, when there is more than one frequency, the VSWR reading on the Wattmeter cannot be greater than 1,5:1 or 4% of the power direct.

Note: The table below indicates reference values, which may the final result differs from the advertised value. The values references apply exclusively to ceiling installations of vehicles or on other metal surfaces physically similar, where the free horizontal flat area has, in minimum and from the center of the antenna, a radius of ¼ wavelength plus 5%, at the desired frequency.



CUTTING GUIDE TABLE	
MHz	L (mm)
146 / 152	514
148 / 155	505
152 / 158	495
155 / 162	488
159 / 166	477
163 / 171	465
167 / 175	456