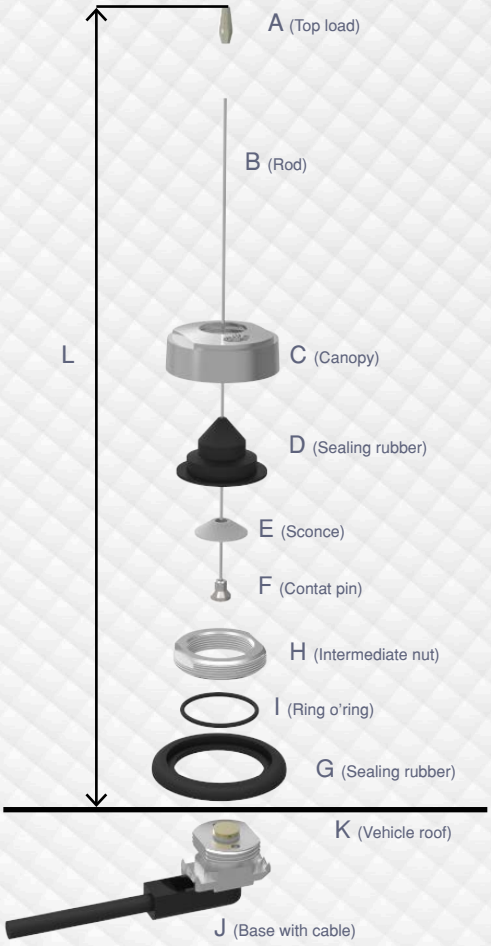
MV-00A

ASSEMBLY SEQUENCE

1 - Drill a 19mm hole in the geometric center of the vehicle's roof, making sure that there is no structural reinforcement internally 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 (J) mounted on the other end of the coaxial cable. Lubricate the exposed part of the ring o'ring (I) that is already fitted to the intermediate nut (H) with vaseline. This ring will be responsible for sealing. Using round-nose pliers inserted into the two upper holes of the base (J), screw on the intermediate nut (H), using a 24mm open-endwrench, tighten it.
3 - Insert the rod (B), together with its conical rubber os sealing (D), sconce (E) and contact pin (F), which is already assembled and locked onto the rod (B), through the hole in the canopy (C), threading in onto the intermediate nut (H) and onto the external sealing rubber (G), giving the final tightening with a 25mm open-endwrench.
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 (B) at the desired frequency or central frequency when there is more than one frequency, observing that the top load (A) must be inserted after cutting the rod and before reading the VSWR no the Wattmeter. This reading cannot be greater than 1,5:1 or 4% of direct power.
6 - Fix the rod (B) in a vice, position the top load (A) and hit the rod with a hammer in the longitudinal direction, fixing it definitively.

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



ROD CUTTING TABLE					
MHz	L (mm)	MHz	L (mm)	MHz	L (mm)
130 / 131	565	149 / 150	480	168 / 169	430
131 / 132	560	150 / 151	475	169 / 170	430
132 / 133	553	151 / 152	473	170 / 171	425
133 / 134	545	152 / 153	472	171 / 172	424
134 / 135	536	153 / 154	470	172 / 173	423
135 / 136	530	154 / 155	465	173 / 174	420
136 / 137	520	155 / 156	463	210 / 220	335
137 / 138	519	156 / 157	460	225 / 235	305
138 / 139	518	157 / 158	456	240 / 250	290
139 / 140	517	158 / 159	453	260 / 270	270
140 / 141	516	159 / 160	449	350 / 390	200
141 / 142	514	160 / 161	443	370 / 410	190
142 / 143	512	161 / 162	438	390 / 430	180
143 / 144	510	162 / 163	436	410 / 450	174
144 / 145	508	163 / 164	435	430 / 470	166
145 / 146	500	164 / 165	433	450 / 490	158
146 / 147	495	165 / 166	432	470 / 510	154
147 / 148	490	166 / 167	431	490 / 530	146
148 / 149	485	167 / 168	430		