

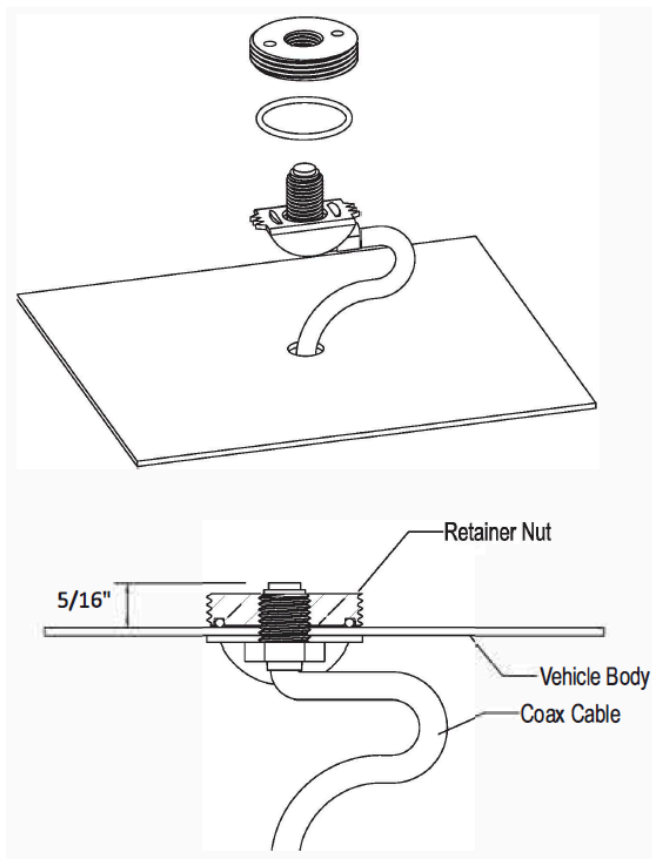
Antenna Cutting Chart for Quarterwave & 3.5dB Gain Antennas Installation Instructions for "C" Mount in 3/8" or 3/4"

Drill a 3/8" (9.53mm) or 3/4" (19.05mm) hole in the car body at the desired location. Clean any burrs and paint from the area around the edge of the hole.

For a 3/4" (19.05mm) hole, route coax from outside the car through the hole. Tilt the mounting assembly at a slight angle and insert it into the hole.

For a 3/8" (9.53mm) hole, the assembly must be fed through the underside of the mounting surface. When mounting through a heavy wall material or fiberglass body the stainless steel saddle should be discarded.

Thread the retaining nut with the "O" ring in position on the stud. Tighten the retaining nut making sure the "O" ring is correctly seated. Make sure the "O" ring becomes compressed enough for the retaining nut to come in contact with the mounting surface.



Whip Cutting Instructions

Please note that the lengths given in each of the charts are the total length of the antenna whip. The whip should be cut to the length that corresponds to the desired frequency you expect to operate on. In most cases it is desirable to cut the whip a bit longer than the chart and make fine adjustments by moving the whip in the adapter.

Each antenna is supplied with a whip that is trimmed to operate at the lowest frequency. To adjust for a higher frequency you must cut an appropriate amount from the bottom of the whip. Adjustment of the exact frequency can be made by moving the cut whip up or down in the adapter and checking for the lowest VSWR.



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950-061-9-001-05191 DR: SM IAPP: LW I REV B

Select The Proper Cutting Chart For Your Antenna

Quarterwave Classic A1111	
Freq. (MHz)	Cut Whip To
108-125	24" (60.96cm)
125-132	23" (7.62cm)
132-138	22" (55.88cm)
136-144	19" (48.26cm)
144-150	17 ¾" (45.09cm)
150-162	17" (43.18cm)
162-174	15 ¾" (40.01cm)
220-225	11" (27.94cm)
406-430	5" (12.70cm)
430-450	4 ¾" (12.07cm)
450-470	4 ½" (11.43cm)
470-490	4" (10.16cm)
490-512	3 ¾" (9.53cm)
806-896	2 ½" (6.35cm)
896-941	2 ¼" (5.72cm)

Magnet Mount 1/4" Wave A2111	
Freq. (MHz)	Cut Whip To
108-125	23 ¾" (59.37cm)
125-132	22 ¾" (56.83cm)
132-138	21 ¾" (54.29cm)
136-144	18 ¾" (46.67cm)
144-150	17 ½" (43.49cm)
150-162	16 ¾" (41.59cm)
162-174	15 ½" (38.42cm)
220-225	10 ¾" (26.35cm)
406-430	4 ¾" (11.11cm)
430-450	4 ½" (10.48cm)
450-470	3 ¾" (9.53cm)
470-490	3 ¾" (8.57cm)
490-512	3" (7.62cm)
806-896	1 ¾" (4.76cm)
896-941	1 ½" (4.13cm)

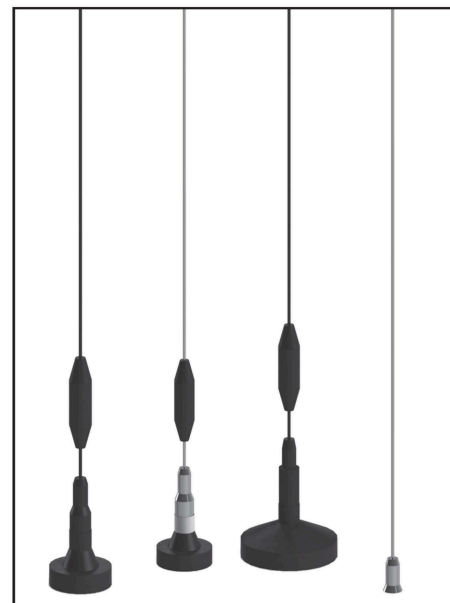
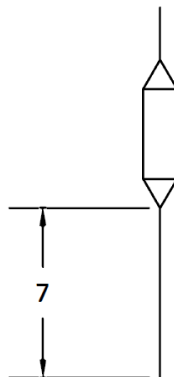
Quarterwave L Type Stud Mount A1911	
Freq. (MHz)	Cut Whip To
136-144	20" (50.80cm)
144-150	18 ¾" (47.63cm)
150-162	18" (45.72cm)
162-174	16 ¾" (42.55cm)
220-225	12" (30.48cm)
406-430	6" (15.24cm)
430-450	5 ¾" (14.61cm)
450-470	5 ½" (13.97cm)
470-490	5" (12.70cm)
490-512	4 ¾" (12.07cm)
806-896	3 ½" (8.89cm)
896-941	3 ¼" (8.26cm)

Classic 3.5dB Gain 406-512MHz A1145	
Freq. (MHz)	Cut Whip To
400-410	15 ¾" (40.01cm)
405-415	15 ¼" (38.74cm)
410-420	14 ¾" (37.78cm)
415-425	14 ¾" (36.51cm)
420-430	13 ¾" (35.24cm)
425-435	13 ½" (34.29cm)
430-440	12 ½" (31.75cm)
435-445	11 ¾" (30.16cm)
440-450	11 ¼" (28.58cm)
445-455	10 ¾" (27.31cm)
450-460	10" (25.4cm)
455-465	9 ¾" (24.77cm)
460-470	9 ¼" (23.49cm)
465-475	8 ¾" (22.23cm)
470-480	8 ¾" (21.27cm)
475-485	8" (20.32cm)
480-490	7 ¾" (19.69cm)
485-495	7 ½" (19.05cm)
490-500	7 ½" (18.09cm)
495-505	6 ¾" (17.46cm)
500-510	6 ½" (16.51cm)
505-515	6 ¼" (15.88cm)

Magnet Mount 3.5dB Gain 406-512MHz A2145	
Freq. (MHz)	Cut Whip To
400-410	15 ½" (38.42cm)
405-415	14 ¾" (37.15cm)
410-420	14 ¼" (36.19cm)
415-425	13 ¾" (34.93cm)
420-430	13 ¼" (33.66cm)
425-435	12 ¾" (32.70cm)
430-440	11 ¾" (30.16cm)
435-445	11 ¼" (28.58cm)
440-450	10 ¾" (26.99cm)
445-455	10 ¼" (25.72cm)
450-460	9 ¾" (23.81cm)
455-465	9 ½" (23.18cm)
460-470	8 ¾" (21.91cm)
465-475	8 ½" (20.64cm)
470-480	7 ¾" (19.69cm)
475-485	7 ¾" (18.73cm)
480-490	7 ½" (18.09cm)
485-495	6 ¾" (17.46cm)
490-500	6 ½" (16.51cm)
495-505	6 ¼" (15.88cm)
500-510	5 ¾" (14.92cm)
505-515	5 ½" (14.29cm)

Note: After cutting the whip to the recommended length shown in the proper chart, the whip should be moved up and down in the adapter to find the optimum overall length that provides the lowest VSWR at the desired frequency.

All cuts made on antennas with phasing coils should be made on the bottom rod only. Measure the length of the cut rod from below the lower edge of the phasing coil to the end of the whip.



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