



## Mobile Antenna Installation Instructions

Congratulations on the purchase of your new Laird Mobile Antenna! Your antenna will provide years of quality service with very little maintenance. A periodic cleaning and an occasional application of car wax will help protect the appearance of your antenna for years to come!

### Installation & Tuning:

For ground plane dependent antennas; the center of the vehicular roof is considered the best location for your installation. Satisfactory results may be obtained on other locations such as the fender or trunk deck. When mounting any antenna, especially a lowband antenna, care should be taken when choosing the mounting location so as to provide an adequate ground plane and free space for the radiator. If the radiator is mounted too close to the metal side of the vehicle, a low VSWR may not be achieved. Use the table below as a guide:

Operating Band	Approx. Ground Plane
Low Band	As Large as possible
VHF 35"	Diameter (89cm)
UHF 13"	Diameter (33cm)
800/900 7"	Diameter (18cm)

**Note:** Ask about our no-ground-plane models for non-metallic surfaces.

Your antenna is supplied with a whip ready for use at the lowest operating frequency for the model shipped. You must cut the whip to the proper length in order to operate at other frequencies within the range of the coil (see illustration on second page). The coil assembly is factory tuned and sealed; no adjustment to the coil is necessary. Follow the dimension on the cutting chart printed on the front of the packaging for your operating frequency.



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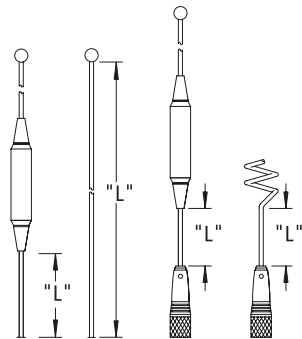
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The dimensions listed in the chart are for the total length of the whip (in inches) when removed from the coil ferrule or optional shock spring. Cut the whip from the bottom a little longer than is indicated on the chart, (do not cut off the end with the ball) and then trim down to the best VSWR using a bridge. Normal VSWR will be 1.5:1 or less. Any higher ratio indicates an incorrect rod length or a faulty mount. You may adjust certain 800 MHz antennas for cellular operation by adjusting the spacing between the ferrules for closed coil models, or between the ferrule and the bottom of the coil for open coil models.

Follow the dimension listed on the packaging and adjust (do not cut) the rod to the proper length "T". The hardware that secures the radiator are #10 Allen socket set screws.

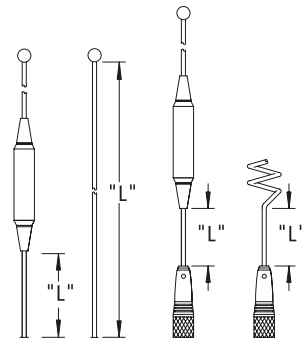
**Note:** An Allen key measuring 3/32" across the flats is the appropriate wrench to use.



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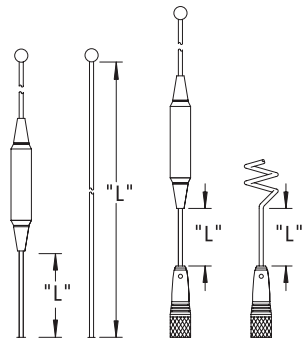
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