

Section 2

Antenna Installations

L-Tronics® offers a number of aircraft and vehicle antenna systems, as well as fixed-location antennas. They are available either for a single frequency range or band (single band) or for two different frequency ranges (dual band). Single band units consist of two whip antennas and a molded switchbox and cable assembly. Dual band units have a third whip mounted between the first two. Single band installations can be converted to dual band at any time by adding a suitable center antenna. Antenna kits for aircraft are offered using standard bent whips, or flexible whips. All antennas work with either LH Series portable or LA Series aircraft DF receivers. The following describes aircraft installation, but the principles also apply to vehicles. Following the section on aircraft antennas are instructions on installing and using magnetic and weatherproof antennas.

Switchbox assemblies are NOT interchangeable between antennas with different whip styles. Antenna whip length and the length of the cables between the antennas and switchbox cannot be changed without degrading or destroying DF performance. The center antenna for dual band assemblies must not have any electrical connection to it. A short tuning stub is provided with certain dual band models requiring it. This center antenna is NOT a "spare antenna" for use on other equipment.

Flight test ALL new aircraft installations.

Each receive frequency selected on the DF receiver may cause interference to one communications channel: for 121.5 the affected frequency is 132.2 MHz; for 121.6 it is 132.3; for 121.775 it is 132.475; and for 243 it is 126.85 MHz. If communications is required on these frequencies, TURN THE DF SET OFF.

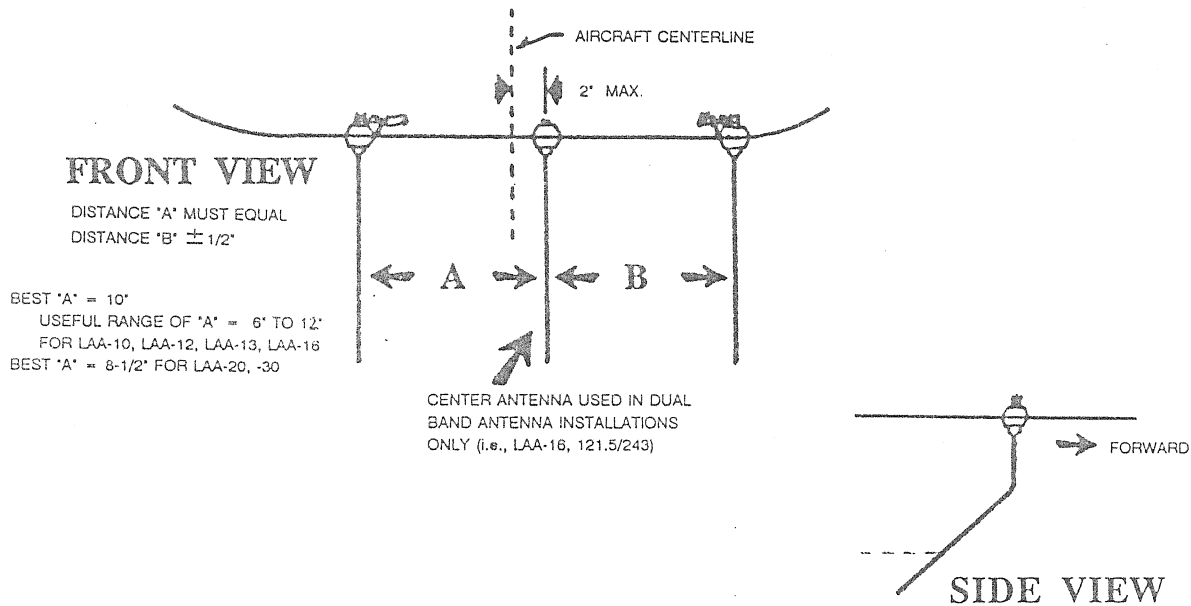


Figure 7. Antenna Installations.