

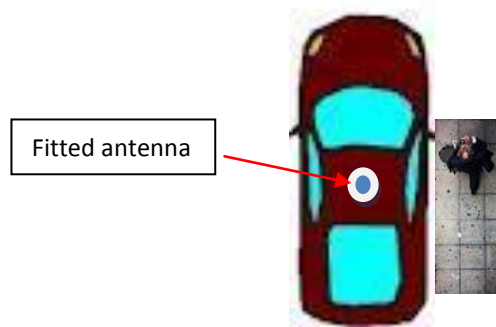
**INTRODUCTION**

When installing any TETRA antenna to a vehicle, it is the responsibility of the installer to ensure that the location of the antenna is considered not only for best RF performance but more importantly in order to minimize the potential for RF exposure to third parties.

To minimise the potential risk of RF exposure to third parties, antennas should ideally be fitted to locations on the vehicle that ensures that the distance between the radiating antenna and third parties is at least 20cm, or if greater, the minimum safe distance required to meet the General Exposure limit for that antenna fitted.

**If this General Exposure distance cannot be met then the radiating antenna must be placed in a location that ensures the Occupation limit cannot be exceeded.**

A list of minimum distances for Sepura supplied TETRA antennas are shown in table 1 below. The outline drawing below shows one example of how third parties may come into proximity of the installed antenna.



Should it not be possible to maintain the minimum safe distance between third parties and the radiating antenna, then action must be taken by the installer to reduce the potential for exposure at the specified minimum distance such that the Occupational Exposure limits are not exceeded.

**TABLE 1**

Application/Power	Sepura Part No	Antenna type	Antenna Gain	Frequency Range	Minimum Safe Distance	
					General	Occupational
STP Car kit 32.5dBm	9525 800 41080	5/8 wave, M8 mount	7dBi	450-470MHz	25cm	20cm
STP Car kit 32.5dBm	300-00390	Co-linear whip, M8 mount	5dBi	817-869MHz	20cm	20cm
STP Car kit 32.5dBm	9525 800 41021	Co-linear whip, M8 mount	5dBi	817-869MHz	20cm	20cm
SRG/40dBm	9525 800 41079	¼ wave, M8 mount	2dBi	450-470MHz	32cm	20cm
SRG/40dBm	9525 800 41080	5/8 wave, M8 mount	7dBi	450-470MHz	57cm	26cm