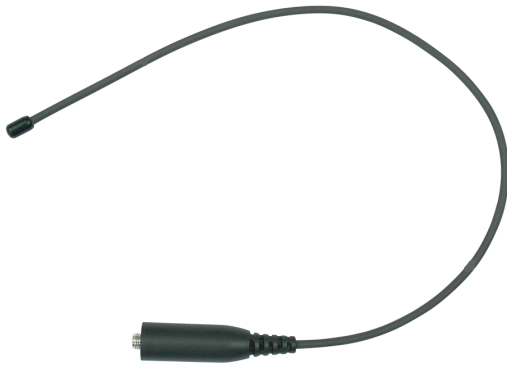


# ASTRO® APX™ 3000 Digital Portable Radios

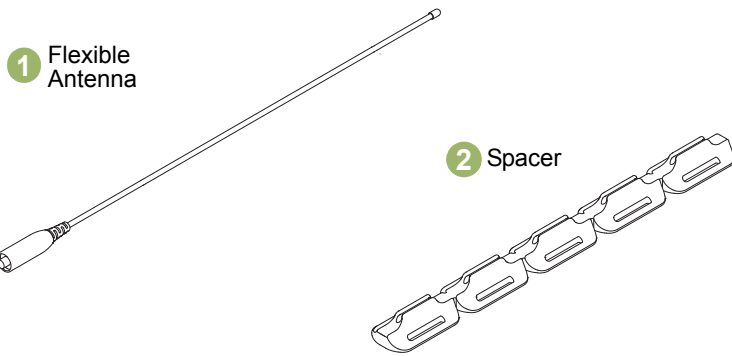
## Flexible Antenna Quick Start Guide



**Note:** When using this antenna, use only Motorola-approved batteries, wired surveillance and wireless audio accessories. Using approved wired surveillance and wireless audio accessories is important because the use of non-Motorola approved accessories may result in exposure levels, which exceed the occupational/controlled environment RF exposure limits.

### Packing List

You see the items below in the package.



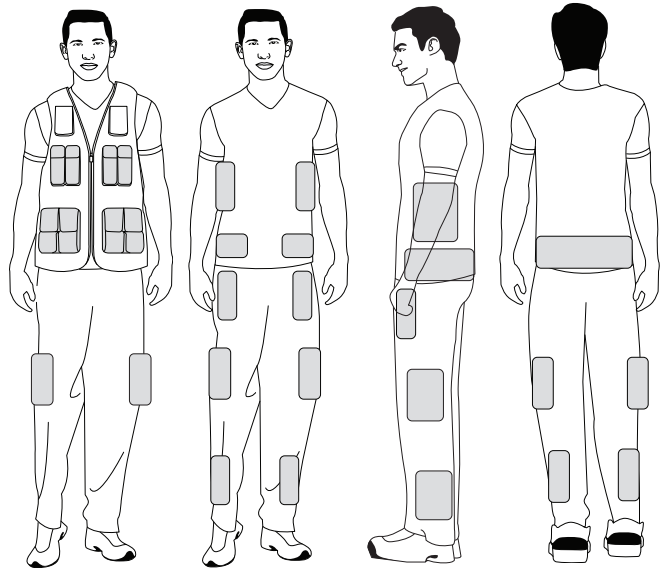
**Figure 1. Items in the package**

### What You Need

- 1 Radio with battery pack
- 2 Duct/surgical tape and/or straps

### Positioning the Radio and Devices on Your Body

This radio is designed to be operated while concealed under the user's outer garments. See the following pictures for the recommended position to place your radio.

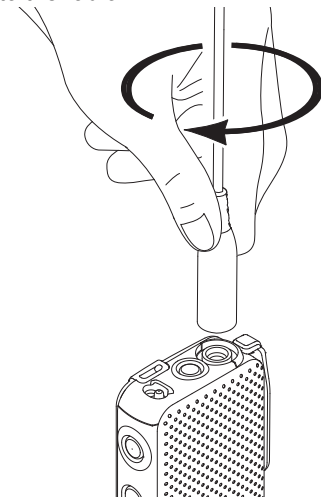


**Figure 2. Recommended positions for radio and devices**

**Note:** Securely tape or strap only the battery side of the radio to your body.

### Installing the Flexible Antenna

With the radio turned off, set the antenna in its receptacle and turn clockwise to attach it to the radio.



**Figure 3. Installing the antenna**

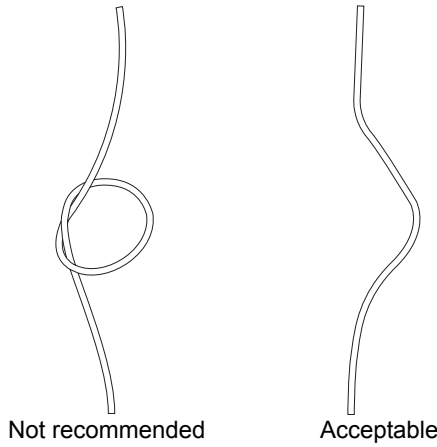
**Note:** The tightening torque allowable is 15 lb-f (maximum) to avoid damage to the antenna and radio.

*To remove the antenna, turn the antenna counterclockwise. Make sure you turn off the radio first.*



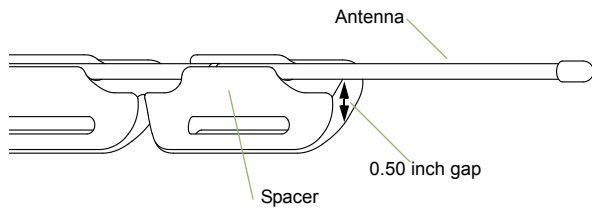


- Do not twist or coil the antenna because this will result in antenna performance degradation. See **Figure 4**.



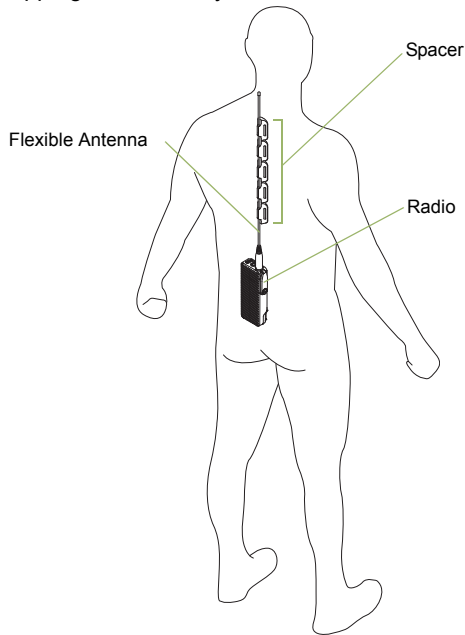
**Figure 4. Handling the antenna**

- To satisfy compliance with RF Exposure standards and improve radio performance, use the spacers provided to maintain a distance of 0.50 inch (1.27 cm) from your body. Shown in **Figure 5**.



**Figure 5. Proper spacing of the antenna**

- To improve radio performance, secure the antenna as shown in **Figure 6**. Ensure the spacer is upright when strapping it to the body.

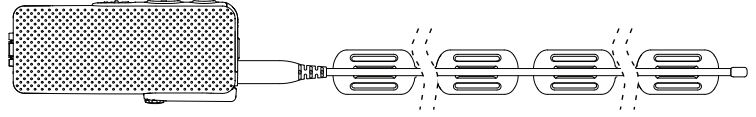


**Figure 6. Spacer must be upright when strapping to the body**

## Strapping the Antenna onto Your Body

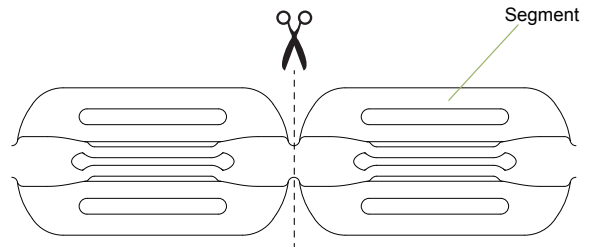
### Procedure:

- Position the spacers along the antenna to maintain 0.5 inch (1.27cm) from your body as shown in **Figure 7**.



**Figure 7. Recommended location of the spacers on the antenna**

- The spacer can be cut into individual segment per method shown below.



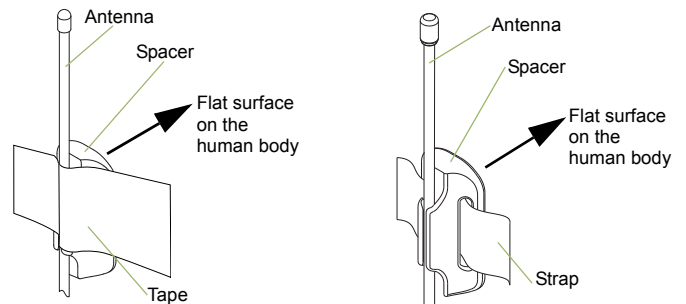
**Figure 8. Spacer cutting line**

**Table 1: Number of spacer segments for different antenna bands.**

Antenna Frequency Band	Number of spacers provided*	Number of segments
700 / 800 MHz	1	5
UHF	3	12
VHF	2	7

\*One spacer comes with five segments.

- Use surgical tape or straps to fasten the spacer to the body with the methods below.



**Figure 9. Fastening the spacer with tape or straps**