

**ASTRO® APX™ N50/N30 Digital Portable Radios
Flexible Antenna Quick Start Guide**



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

Packing List

The package contains the following items:

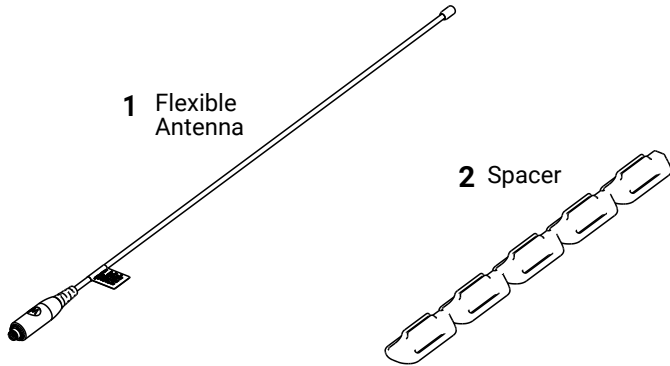


Figure 1. Items in the package

What You Need

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

Positioning the Radio and Devices on Your Body

Your radio is designed to operate while concealed under your outer garments. Refer to **Figure 2** for the recommended positions to place your radio.

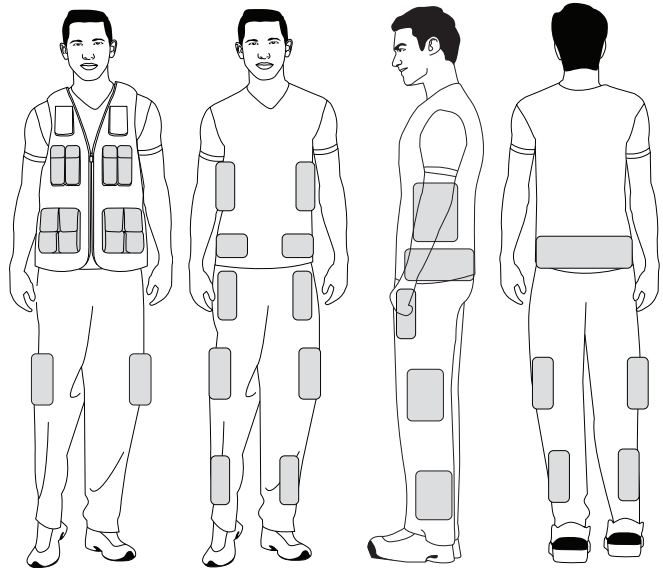


Figure 2. Recommended Positions for Radio and Devices

Note: When using the flexible antenna, securely tape or strap only the battery side of the radio to your body.

Installing the Flexible Antenna

Prerequisite: Turn off the radio.

To attach the antenna to the radio, insert the antenna in the receptacle and turn clockwise.



Figure 3. Antenna Installation

Note: To avoid damage to the antenna and radio, the maximum allowable tightening torque is 15 lb-f.

To remove the antenna, turn off the radio and turn the antenna counterclockwise.

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Caution

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

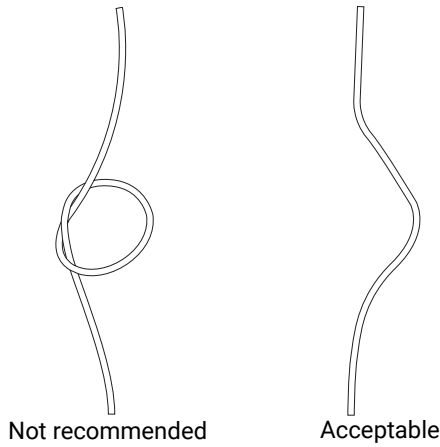


Figure 4. Acceptable Antenna Condition

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

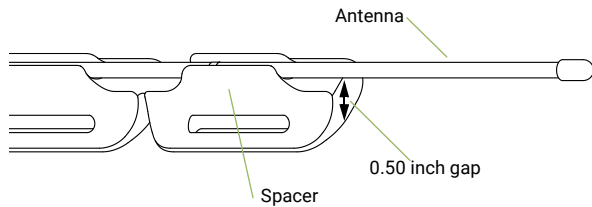


Figure 5. Proper Spacing of the Antenna

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

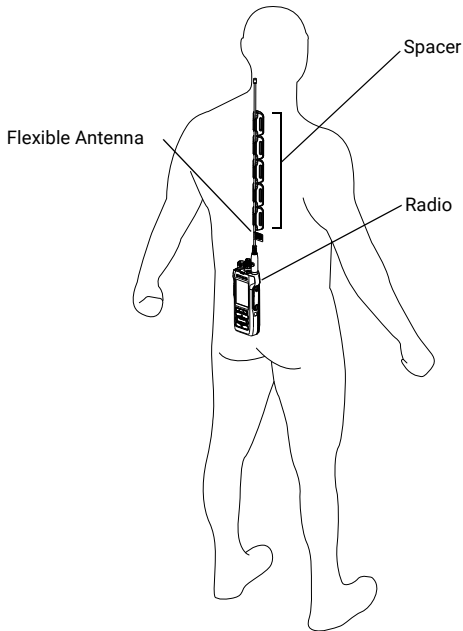


Figure 6. Recommended Spacer Positions When Strapped to the Body

Strapping the Antenna onto Your Body

Procedure:

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

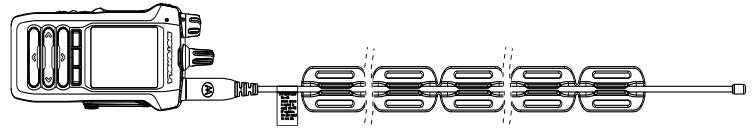


Figure 7. Recommended Location of the Spacers on the Antenna

- The spacer can be cut into individual segments as shown in **Figure 8**.

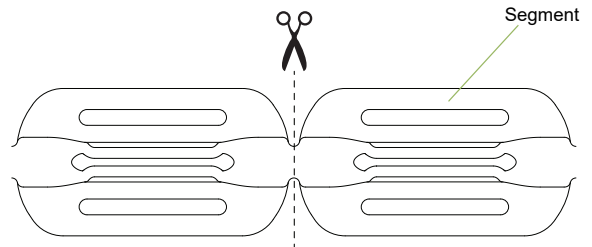


Figure 8. Spacer Cutting Line

Table 1: Number of Spacer Segments for Different Antenna Bands.

Antenna Frequency Band	Number of spacers provided*	Number of segments
VHF	2	7

*One spacer comes with five segments.

- Use surgical tape or straps to fasten the spacer to the body as shown in **Figure 9**.

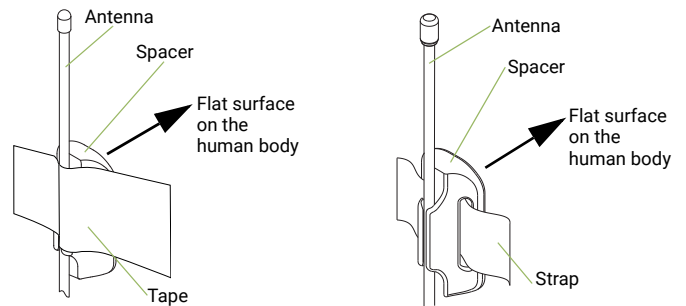


Figure 9. Fastening the Spacer with Tape or Straps