

## **SAFETY INFORMATION**

The FCC has adopted a safety standard for human exposure to RF energy. Proper operation of this radio under normal conditions results in user exposure to RF energy below the Occupational Safety and Health Act and Federal Communication Commission limits.

### ***WARNING***

DO NOT allow the antenna to touch or come in very close proximity with the eyes, face, or any exposed body parts while the radio is transmitting.

DO NOT operate the transmitter of a mobile radio when a person outside the vehicle is within one (1) meter of the antenna.

DO NOT operate the transmitter of a stationary radio (base station or marine radio) when a person is within one (1) meter of the antenna.

DO NOT operate the radio in explosive or flammable atmospheres. The transmitted radio energy could trigger blasting caps or cause an explosion.

DO NOT operate the radio without the proper antenna installed.

DO NOT allow children to operate or play with this radio.

*NOTE: The above warning list is not intended to include all hazards that may be encountered when using this radio.*

This device complies with Part 15 of the FCC rules. Operation is subject to the condition that this device does not cause harmful interference. In addition, changes or modifications to this equipment not expressly approved by EFT Johnson could void the user's authority to operate this equipment (FCC rules, 47CFR Part 15.19).

## FCC EXPOSURE LIMITS

This mobile radio transceiver was tested by the manufacturer with an appropriate antenna in order to verify compliance with Maximum Permissible Exposure (MPE) limits set under Section 2.1091 of the FCC Rules and Regulations. The guidelines used in the evaluation are derived from Table 1 (B) titled "Limits For General Population/Uncontrolled Exposure" which is from FCC report OET bulletin #65.

**Table 1**  
**FCC Limits for Maximum Permissible Exposure (MPE)**

### (A) Limits For Occupational/Controlled Exposure

| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/cm <sup>2</sup> ) | Averaging Time $ E ^2,  H ^2, S$ (minutes) |
|-----------------------|-----------------------------------|-----------------------------------|-----------------------------------------|--------------------------------------------|
| 0.3-3.0               | 614                               | 1.63                              | (100)*                                  | 6                                          |
| 3.0-30                | 1842/f                            | 4.89/f                            | (900/f <sup>2</sup> )*                  | 6                                          |
| 30-300                | 61.4                              | 0.163                             | 1.0                                     | 6                                          |
| 300-1500              | --                                | --                                | f/300                                   | 6                                          |
| 1500-100,000          | --                                | --                                | 5                                       | 6                                          |

### (B) Limits For General Population/Uncontrolled Exposure

| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/cm <sup>2</sup> ) | Averaging Time $ E ^2,  H ^2, S$ (minutes) |
|-----------------------|-----------------------------------|-----------------------------------|-----------------------------------------|--------------------------------------------|
| 0.3-1.34              | 614                               | 1.63                              | (100)*                                  | 30                                         |
| 1.34-30               | 824/f                             | 2.19/f                            | (180/f <sup>2</sup> )*                  | 30                                         |
| 30-300                | 27.5                              | 0.073                             | 0.2                                     | 30                                         |
| 300-1500              | --                                | --                                | f/1500                                  | 30                                         |
| 1500-100,000          | --                                | --                                | 1.0                                     | 30                                         |

f = Frequency in MHz

\*Plane-wave equivalent power density

Table 2 lists the antenna whips and bases recommended for use in each frequency range. Each model of this radio was tested with the appropriate antenna listed. The antenna was mounted in the center of the roof of a domestically manufactured four-door passenger sedan. The radio manufacturer has determined that the user and service personnel should remain one (1) meter in distance away from the antenna when transmitting. By maintaining this distance, these individuals are not exposed to radio frequency energy or magnetic fields in excess of the guidelines set forth in Table 1.

*NOTE: If the installer or user changes the type or location of the antenna, they should be aware of the MPE guidelines shown in Table 1 and take measures to comply with those guidelines*

**Table 2**  
**Recommended Antenna Whips and Bases**  
**(Antenna Manufacturer - Antenna Specialists)**

| Frequency   | Whip Model No. | Base Model No. |
|-------------|----------------|----------------|
| 806-869 MHz | ASPA1855       | KM220          |