

# **Owner's Manual**

**14 Channel FRS (Family Radio Service)**

**Model KF-101**

**WOOIL TELCOM CO., LTD.**

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FCC ID: OIZKF-101  
EXHIBIT #: KA

☐ Contents ☐

1. Features
2. Specifications
3. Included with your FRS
4. Operation
5. Batteries
6. Care and Maintenance
7. Warranty Statement

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## 1. FEATURES

Wooil Telcom Two-Way Family Radio has the following features:

- ◆ No License Required !
- ◆ Clear Communications Up To About 2 Miles
- ◆ A Lightweight, Palm-Sized Radio
- ◆ 14 Channel ( Dip Switch Type Channel Selection )
- ◆ Transmit/ Battery Indicator
- ◆ Automatic Squelch
- ◆ Automatic Power Save

## Introduction

Wooil Telcom Personal FM Transceiver is a lightweight, palm-sized radio that you can carry almost anywhere. Use it at shopping malls, amusement parks, or sports events to contact family and friends, or in a neighborhood watch for vital communications. You can talk with another person who has an FRS radio set to the same frequency as your transceiver.

Your radio has auto-squelch, which means you won't hear anything on the channel unless someone is transmitting nearby on the same channel. But, you can turn off auto-squelch hear weaker, distant transmissions.

Also, if you do not transmit for over 8 seconds, the radio automatically switches to a power save mode and returns to full power when it receives a transmission or you press any key.

## 2. SPECIFICATIONS

### 1) General Specification

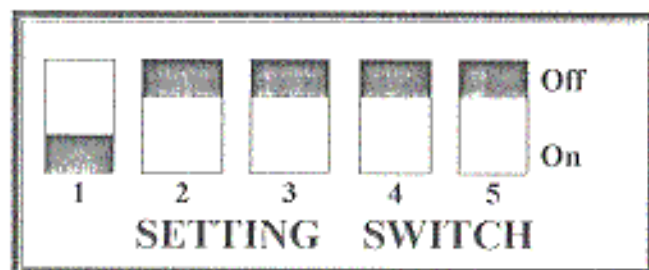
| Classifications       | Spec.                              |
|-----------------------|------------------------------------|
| Frequency Range       | 462.5625 ~ 467.7125 MHz            |
| Impedance             | 50 ohm                             |
| Modulation Type       | F3E                                |
| Channel               | 14                                 |
| Channel Interval      | 12.5 KHz                           |
| Battery Voltage       | DC 6V (AAA 1.5V × 4EA) or Charger  |
| Operating Temperature | - 20 °C ~ 50 °C                    |
| Frequency Stability   | 2.5 PPM                            |
| Dimensions            | 50 mm (W) × 30 mm (D) × 100 mm (H) |
| Weight                | 105 g                              |
| Antenna               | 75 mm                              |

### 2) Electrical Specification -Transmitter

| Classifications          | Spec.                         |
|--------------------------|-------------------------------|
| Transmitter Output Power | 0.5 W                         |
| Frequency Stability      | ± 0.0025 PPM (-20 °C ~ 50 °C) |
| Modulation               | FM                            |
| Oscillation              | VCO                           |
| Max. Frequency Deviation | ± 2.5 KHz                     |
| Spurious Output Strength | Less than -60 dB              |
| TX Distortion            | Less than 10 %                |
| Consuming Current        | Less than 400 mA              |

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EXHIBIT #: 101

### 3) Channel and Channel Selection -Using Dip Switch



| Channel | Selection Dip Switch |     |     |     |   | Frequency (MHz) |
|---------|----------------------|-----|-----|-----|---|-----------------|
|         | 1                    | 2   | 3   | 4   | 5 |                 |
| 1       | On                   | On  | On  | On  | X | 462.5625        |
|         | Off                  | Off | Off | Off | X |                 |
|         | On                   | Off | Off | Off | X |                 |
| 2       | Off                  | On  | On  | On  | X | 462.5875        |
| 3       | On                   | Off | On  | On  | X | 462.6125        |
| 4       | Off                  | Off | On  | On  | X | 462.6375        |
| 5       | On                   | On  | Off | On  | X | 462.6625        |
| 6       | Off                  | On  | Off | On  | X | 462.6875        |
| 7       | On                   | Off | Off | On  | X | 462.7125        |
| 8       | Off                  | Off | Off | On  | X | 467.5625        |
| 9       | On                   | On  | On  | Off | X | 467.5875        |
| 10      | Off                  | On  | On  | Off | X | 467.6125        |
| 11      | On                   | Off | On  | Off | X | 467.6375        |
| 12      | Off                  | Off | On  | Off | X | 467.6625        |
| 13      | On                   | On  | Off | Off | X | 467.6875        |
| 14      | Off                  | On  | Off | Off | X | 467.7125        |

Cf. The 5<sup>th</sup> Switch has No Influence to channel selecting !

### -Receiver Specification

| Classification        | Spec.                     |
|-----------------------|---------------------------|
| Receiving Type        | Double Support Heterodyne |
| Receiving Sensitivity | 0.2 $\mu V$               |
| Squelch Sensitivity   | Less than 0.3 $\mu V$     |
| Max. Audio Output     | 0.3 W                     |

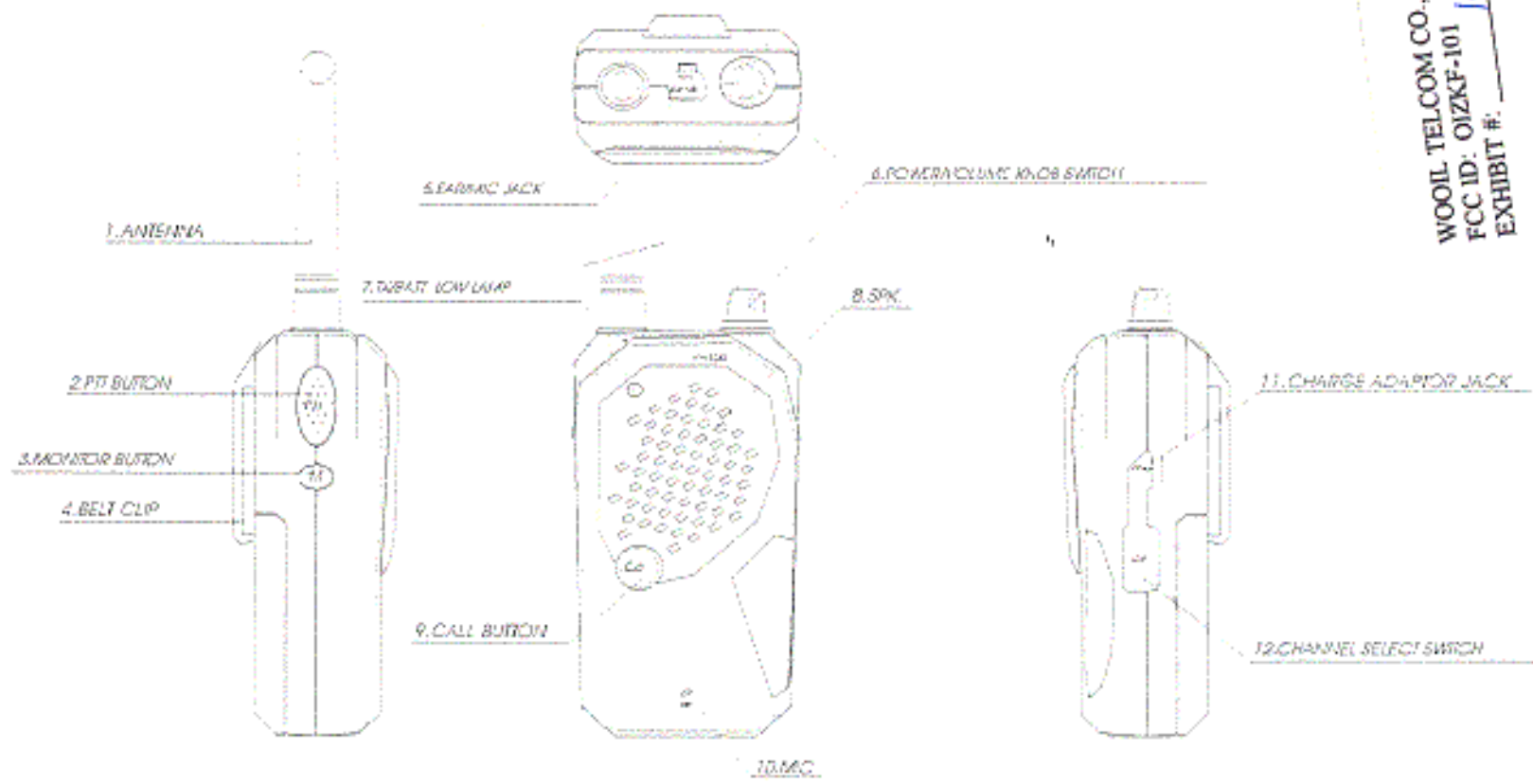
### 3. INCLUDED WITH YOUR FRS

- ◆ Transceiver
- ◆ Owner's Manual
- ◆ Strap

### 4. OPERATION

#### 1) Name of Each Composition

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## 2) Using The Radio

To talk, hold down PTT (Push to Talk). Speak into the microphone when the TX indicator lights. When you finish speaking, release PTT.

Note: If the TX indicator lights when you are not holding down PTT, replace the batteries.

To hear everything happening on a channel, including weak transmissions, hold down MON. Release MON to turn auto-squelch back on.

To send a page to all radios tuned to same channel, press CALL.

Rotate the OFF/ VOLUME control to turn the transceiver on and off and adjust the volume.

The TX/ BATT lamp lights when you transmit a message or press CALL.

This device complies with Part 15 of the FCC Rules.  
Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Modifying or tampering with the radio's internal components can cause a malfunction and might invalidate the radio's warranty and void your FCC authorization to operate it.

## 5. BATTERIES

### Installing Batteries

Wooil Telcom radio uses four AAA batteries for power. We recommend alkaline batteries.

Note: You can also use rechargeable batteries in the radio.

Be sure the radio is off, then slide off the battery compartment cover in the direction of the arrow on the cover. Install the batteries, matching the polarity symbols ( + and - ) inside the compartment. Then replace the cover.

**CAUTION:** Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities. The radio's range decreases as the battery power decreases. To ensure maximum range, keep fresh batteries in the radio.

## 6. CARE AND MAINTENANCE

To enjoy your radio for a long time:

Handle it gently.

Keep it away from dust, moisture, and temperature extremes.

Clean it with a damp cloth. Do not use harsh chemicals.

## 7. Limited Warranty Statement

Wooil Telcom Co., Ltd warrants that its products will be free from defects in materials and workmanship under normal use for one (1) year from the date of purchase by the original end user, provided that the buyer has complied with the requirements stated herein.

If the product fails to function under normal use because of manufacturing defect(s) or workmanship during the one (1) year period following the date of purchase, it will be replaced or repaired at no charge when returned to the place of purchase. The defective unit must be accompanied by the proof of purchase date in the form of a sales receipt.

In the event of a product defect during the warranty period, Wooil Telcom will repair and replace the product. Replacement, at its option, may include a similar or higher-featured product. Repair may include the replacement of parts or boards with functionally equivalent reconditioned or new parts or boards. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. All replaced parts or boards become the property of Wooil Telcom Co., Ltd. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover damage and failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current. This warranty is void if the serial number is altered, defaced or removed. The purchaser shall provide for removal of the defective product and installation of its replacement.

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