

# KENWOOD

## INSTRUCTION MANUAL



VHF FM TRANSCEIVER

# TK-2307

UHF FM TRANSCEIVER

# TK-3307

JVCKENWOOD Corporation

B62-2317-20 (C)



## THANK YOU

We are grateful you have chosen **KENWOOD** for your land mobile radio applications.

## NOTICES TO THE USER

- ◆ Government law prohibits the operation of unlicensed radio transmitters within the territories under government control.
- ◆ Illegal operation is punishable by fine and/or imprisonment.
- ◆ Refer service to qualified technicians only.

**Safety:** It is important that the operator is aware of, and understands, hazards common to the operation of any transceiver.

### Firmware Copyrights

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## PRECAUTIONS

- Do not charge the transceiver and battery pack when they are wet.
- Ensure that there are no metallic items located between the transceiver and the battery pack.
- Do not use options not specified by **KENWOOD**.
- If the die-cast chassis or other transceiver part is damaged, do not touch the damaged parts.
- If a headset or headphone is connected to the transceiver, reduce the transceiver volume. Pay attention to the volume level when turning the squelch off.
- Do not place the microphone cable around your neck while near machinery that may catch the cable.
- Do not place the transceiver on unstable surfaces.
- Ensure that the end of the antenna does not touch your eyes.
- When the transceiver is used for transmission for many hours, the radiator and chassis will become hot. Do not touch these locations when replacing the battery pack.
- Do not immerse the transceiver in water.
- Always switch the transceiver power off before installing optional accessories.
- The charger is the device that disconnects the unit from the AC mains line. The AC plug should be readily accessible.

**WARNING**

Turn the transceiver power off in the following locations:

- In explosive atmospheres (inflammable gas, dust particles, metallic powders, grain powders, etc.).
- While taking on fuel or while parked at gasoline service stations.
- Near explosives or blasting sites.
- In aircrafts. (Any use of the transceiver must follow the instructions and regulations provided by the airline crew.)
- Where restrictions or warnings are posted regarding the use of radio devices, including but not limited to medical facilities.
- Near persons using pacemakers.

**CAUTION**

- Do not disassemble or modify the transceiver for any reason.
- Do not place the transceiver on or near airbag equipment while the vehicle is running. When the airbag inflates, the transceiver may be ejected and strike the driver or passengers.
- Do not transmit while touching the antenna terminal or if any metallic parts are exposed from the antenna covering. Transmitting at such a time may result in a high-frequency burn.
- If an abnormal odor or smoke is detected coming from the transceiver, switch the transceiver power off immediately, remove the battery pack from the transceiver, and contact your **KENWOOD** dealer.
- Use of the transceiver while you are driving may be against traffic laws. Please check and observe the vehicle regulations in your area.
- Do not expose the transceiver to extremely hot or cold conditions.
- Do not carry the battery pack (or battery case) with metal objects, as they may short the battery terminals.
- When operating the transceiver in areas where the air is dry, it is easy to build up an electric charge (static electricity). When using an earphone accessory in such conditions, it is possible for the transceiver to send an electric shock through the earphone and to your ear. We recommend you use only a speaker/microphone in these conditions, to avoid electric shocks.

## Information concerning the battery pack:

The battery pack includes flammable objects such as organic solvent. Mishandling may cause the battery to rupture producing flames or extreme heat, deteriorate, or cause other forms of damage to the battery. Please observe the following prohibitive matters.



**DANGER**

- **Do not disassemble or reconstruct battery!**

The battery pack has a safety function and protection circuit to avoid danger. If they suffer serious damage, the battery may generate heat or smoke, rupture, or burst into flame.

- **Do not short-circuit the battery!**

Do not join the + and – terminals using any form of metal (such as a paper clip or wire). Do not carry or store the battery pack in containers holding metal objects (such as wires, chain-necklace or hairpins). If the battery pack is short-circuited, excessive current will flow and the battery may generate heat or smoke, rupture, or burst into flame. It will also cause metal objects to heat up.

- **Do not incinerate or apply heat to the battery!**

If the insulator is melted, the gas release vent or safety function is damaged, or the electrolyte is ignited, the battery may generate heat or smoke, rupture, or burst into flame.

- **Do not use or leave the battery near fire, stoves, or other heat generators (areas reaching over 80°C)!**

If the polymer separator is melted due to high temperature, an internal short-circuit may occur in the individual cells and the battery may generate heat or smoke, rupture, or burst into flame.

- **Do not immerse the battery in water or get it wet by other means!**

If the battery's protection circuit is damaged, the battery may charge at extreme current (or voltage) and an abnormal chemical reaction may occur. The battery may generate heat or smoke, rupture, or burst into flame.

- **Do not charge the battery near fire or under direct sunlight!**

If the battery's protection circuit is damaged, the battery may charge at extreme current (or voltage) and an abnormal chemical reaction may occur. The battery may generate heat or smoke, rupture, or burst into flame.

**DANGER**

- **Use only the specified charger and observe charging requirements!**

If the battery is charged in unspecified conditions (under high temperature over the regulated value, excessive high voltage or current over regulated value, or with a remodeled charger), it may overcharge or an abnormal chemical reaction may occur. The battery may generate heat or smoke, rupture, or burst into flame.

- **Do not pierce the battery with any object, strike it with an instrument, or step on it!**

This may break or deform the battery, causing a short-circuit. The battery may generate heat or smoke, rupture, or burst into flame.

- **Do not jar or throw the battery!**

An impact may cause the battery to leak, generate heat or smoke, rupture, and/or burst into flame. If the battery's protection circuit is damaged, the battery may charge at an abnormal current (or voltage), and an abnormal chemical reaction may occur. The battery may generate heat or smoke, rupture, or burst into flame.

- **Do not use the battery pack if it is damaged in any way!**

The battery may generate heat or smoke, rupture, or burst into flame.

- **Do not solder directly onto the battery!**

If the insulator is melted or the gas release vent or safety function is damaged, the battery may generate heat or smoke, rupture, or burst into flame.

- **Do not reverse the battery polarity (and terminals)!**

When charging a reversed battery, an abnormal chemical reaction may occur. In some cases, an unexpected large amount of current may flow upon discharging. The battery may generate heat or smoke, rupture, or burst into flame.

- **Do not reverse-charge or reverse-connect the battery!**

The battery pack has positive and negative poles. If the battery pack does not smoothly connect with a charger or operating equipment, do not force it; check the polarity of the battery. If the battery pack is reverse-connected to the charger, it will be reverse-charged and an abnormal chemical reaction may occur. The battery may generate heat or smoke, rupture, or burst into flame.

**DANGER**

- **Do not touch a ruptured and leaking battery!**

If the electrolyte liquid from the battery gets into your eyes, wash your eyes with fresh water as soon as possible, without rubbing your eyes. Go to the hospital immediately. If left untreated, it may cause eye-problems.

**WARNING**

- **Do not charge the battery for longer than the specified time!**

If the battery pack has not finished charging even after the regulated time has passed, stop it. The battery may generate heat or smoke, rupture, or burst into flame.

- **Do not place the battery pack into a microwave or high pressure container!**

The battery may generate heat or smoke, rupture, or burst into flame.

- **Keep ruptured and leaking battery packs away from fire!**

If the battery pack is leaking (or the battery emits a bad odor), immediately remove it from flammable areas. Electrolyte leaking from battery can easily catch on fire and may cause the battery to generate smoke or burst into flame.

- **Do not use an abnormal battery!**

If the battery pack emits a bad odor, appears to have different coloring, is deformed, or seems abnormal for any other reason, remove it from the charger or operating equipment and do not use it. The battery may generate heat or smoke, rupture, or burst into flame.

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## UNPACKING AND CHECKING EQUIPMENT

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Carefully unpack the transceiver. If any of the items listed below are missing or damaged, file a claim with the carrier immediately.

### SUPPLIED ACCESSORIES

- Antenna ..... 1
- Speaker/ microphone jack cover ..... 1
- Speaker/ microphone locking bracket ..... 1
- Belt clip (KBH-10) ..... 1
- Screw set
  - M2.6 x 7 mm (Black) ..... 1
  - M3 x 8 mm ..... 2
- Instruction manual ..... 1

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**Note:** Refer to "PREPARATION" for accessory installation instructions.

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## PREPARATION

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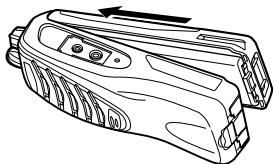
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### INSTALLING/ REMOVING THE (OPTIONAL) BATTERY PACK

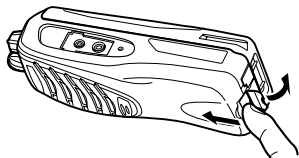


CAUTION

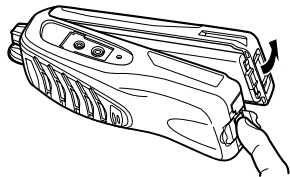
- ◆ Do not short the battery terminals or dispose of the battery by fire.
- ◆ Never attempt to remove the casing from the battery pack.



- 1 Align the battery pack with the back of the transceiver, then press the battery pack and transceiver firmly together until the release latch on the base of the transceiver locks.



- 2 To remove the battery pack, lift the safety catch on the base of the transceiver, then press the release latch underneath the safety catch.



- 3 While pressing the release latch, pull the battery pack away from the transceiver.



## INSTALLING THE ANTENNA



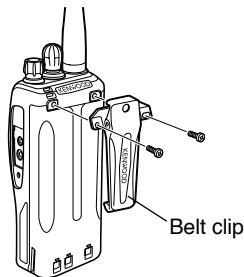
Screw the antenna into the connector on the top of the transceiver by holding the antenna at its base and turning it clockwise until secure.

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**Note:** The antenna is neither a handle, a key ring retainer, nor a speaker/microphone attachment point. Using the antenna in these ways may damage the antenna and degrade your transceiver's performance.

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## INSTALLING THE BELT CLIP



If necessary, attach the belt clip using the two supplied M3 x 8 mm screws.

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**Note:** If the belt clip is not installed, its mounting location may get hot during continuous transmission or when left sitting in a hot environment.

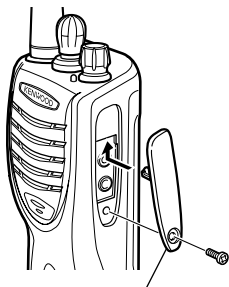
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### CAUTION

Do not use glue which is designed to prevent screw loosening when installing the belt clip, as it may cause damage to the transceiver. Acrylic ester, which is contained in these glues, may crack the transceiver's back panel.

## INSTALLING THE COVER OVER THE SPEAKER/ MICROPHONE JACKS



Speaker/ microphone  
jack cover

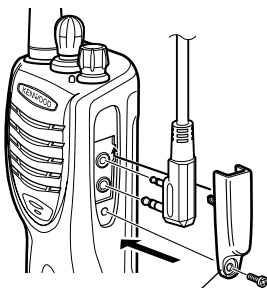
If you are not using a speaker/ microphone, install the cover over the speaker/ microphone jacks using the supplied M2.6 x 7 mm screw.

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**Note:** To keep the transceiver water resistant, you must cover the speaker/ microphone jacks with the supplied cover.

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## INSTALLING THE OPTIONAL SPEAKER/ MICROPHONE (OR HEADSET)



Speaker/ microphone  
locking bracket

- 1 Insert the speaker/ microphone (or headset) plugs into the speaker/ microphone jacks.
- 2 Attach the locking bracket using the supplied M2.6 x 7 mm screw.

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**Note:** The transceiver is not fully water resistant while using the speaker/ microphone.

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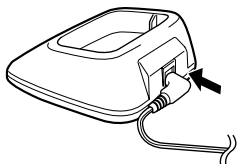
## CHARGING THE BATTERY PACK (OPTIONAL BATTERY CHARGER)

The battery pack is not charged at the factory; charge it before use.

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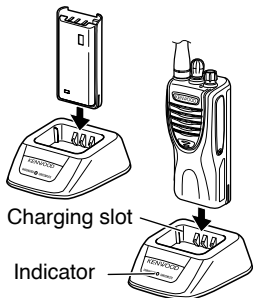
**ATTENTION:** Always switch OFF a transceiver equipped with a battery pack before inserting the transceiver into the charger.

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**1** Plug the AC adapter cable into the jack located on the rear of the charger.

**2** Plug the AC adapter into an AC outlet.



**3** Slide a battery pack or a transceiver equipped with a battery pack into the charging slot of the charger.

- Make sure the metal contacts of the battery pack mate securely with the charger terminals.
- The indicator lights red and charging begins.

**4** When charging is completed, the indicator lights green. Remove the battery pack or the transceiver from the charging slot of the charger.

- It takes approximately 3 hours to charge the battery pack.
- When the charger will not be used for a long time, unplug the AC adapter from the AC outlet.

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### Note:

- ◆ When the indicator blinks red, the battery pack is either defective or the battery pack contacts are not properly mated with those of the charger.
  - ◆ The ambient temperature should be between 5°C and 40°C while charging is in progress. Charging outside this range may not fully charge the battery.
  - ◆ The battery pack life is over when its operating time decreases even though it is fully and correctly charged. Replace the battery pack.
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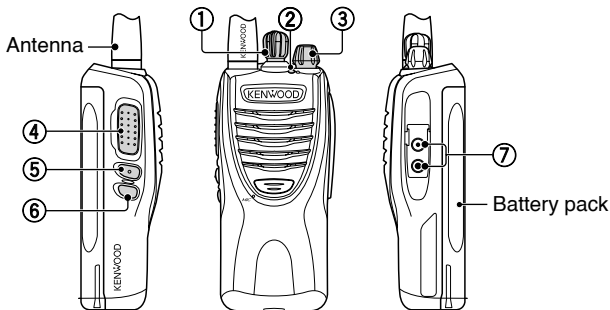
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## ORIENTATION

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### ① Channel selector

Rotate to change the operating channel.

- **Channel Annunciation:** When changing channels, the transceiver will announce the newly selected channel number. (This can be deactivated by your dealer.)

### ② LED indicator

For the LED indicator status, refer to page 9.

### ③ Power switch/ Volume control

Turn clockwise to switch ON the transceiver. To switch OFF the transceiver, turn counterclockwise until a click sounds. Rotate to adjust the volume level.

### ④ PTT (Push to Talk) switch

Press and hold, then speak into the microphone to transmit.

### ⑤ Side 1 key {refer to page 7}

Press to activate its programmable function.

### ⑥ Side 2 key {refer to page 7}

Press to activate its programmable function.

### ⑦ Speaker/ microphone jacks

Insert the Speaker/ microphone or Headset plug into this jack.

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## PROGRAMMABLE AUXILIARY FUNCTIONS

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Your dealer can program the **Side 1** and **Side 2** keys each with one of the following functions.

■ **None**

No function has been programmed.

■ **Autodial**

DTMF Autodial allows you to make a private call to another party.

■ **Emergency Key**

Press and hold this key to enter Emergency Mode.

Emergency Mode is used to carry out emergency actions.

■ **Key Lock**

Press and hold this key for 1 second to lock/ unlock the transceiver keys.

■ **Key Lock with Status Memory**

This operates the same as Key Lock except that when the transceiver power is turned OFF and then ON again, the keys remain locked. Without Status Memory, when the transceiver power is turned OFF and then ON again, the Key Lock function will be cancelled.

■ **Lone Worker**

Lone Worker Mode is an Emergency feature for use when you are entering a dangerous atmosphere, such as a fire or tunnel.

■ **Monitor**

Momentarily press this key to deactivate signaling (QT/DQT, FleetSync signaling, etc.). Press the key again to return to normal operation.

■ **Monitor Momentary**

Press and hold this key to deactivate signaling (QT/DQT, FleetSync signaling, etc.). Release the key to return to normal operation.

## ■ **Scan**

Press this key to start scanning the transceiver channels.

## ■ **Scan + Temporary Delete**

Press this key to start scanning the transceiver channels. When Scan pauses at an undesired channel, you can remove that channel from the scanning sequence by pressing and holding this key for 3 seconds.

## ■ **Scrambler**

The Scrambler function allows you to hold a conversation in complete privacy. When activated, any other party listening in on your channel will be unable to understand your conversation.

## ■ **Squelch Off**

Momentarily press this key to hear background noise. Press the key again to return to normal operation.

## ■ **Squelch Off Momentary**

Press and hold this key to hear background noise. Release the key to return to normal operation.

## ■ **Talk Around**

The Talk Around function allows you to communicate directly with other transceivers, without the use of a repeater.

## ■ **Temporary Delete**

When Scan pauses at an undesired channel, you can remove that channel from the scanning sequence by pressing and holding this key for 1 second.

## ■ **Low Transmit Power**

Each channel is programmed with either high or low transmit power. On high transmit power channels, press this key to change the transmit power to low power (you cannot change low transmit power channels to use high power).

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## BASIC OPERATIONS

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- 1 Turn the **Power** switch/ **Volume** control clockwise to switch the transceiver power ON.
  - A beep sounds if enabled by your dealer.
- 2 Press the key programmed with the **Monitor** or **Squelch Off** function to hear background noise, then rotate the **Power** switch/ **Volume** control to adjust the volume.
- 3 Rotate the **Channel** selector to select your desired channel.
  - When you receive an appropriate signal, you will hear audio from the speaker.
- 4 To make a call, press and hold the **PTT** switch, then speak into the microphone using your normal speaking voice.
  - Hold the microphone approximately 3 to 4 cm from your lips.
- 5 Release the **PTT** switch to receive.

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**Note:** When the battery pack voltage becomes too low, transmission will stop and an alert tone will sound.

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### LED Indicator Status

Indicator Color	Meaning
Lights red	Transmitting
Lights green	Receiving a call
Blinks red	Battery power is low while transmitting
Blinks green	Scanning
Blinks orange	Receiving an encoded call (FleetSync signaling, etc.)
Blinks red/orange	The selected channel has not been programmed and cannot be used.

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## VOICE OPERATED TRANSMISSION (VOX)

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VOX operation allows you to transmit hands-free. This feature must first be activated by your dealer, and can only be used if you are using a supported headset.

To activate VOX and set the VOX Gain level, perform the following steps:

- 1 Connect the headset to the transceiver .
  - The VOX function does not activate when a headset is not connected to the accessory terminal of the transceiver.
- 2 With the transceiver power OFF, press and hold the **Side 1** key while turning the transceiver power ON.
- 3 Continue to hold the **Side 1** key until a beep sounds.
  - The LED indicator lights orange.
  - When the **Side 1** key is released, the transceiver announces the VOX Gain level.
- 4 Press the **Side 1** key to increase the VOX Gain level and the **Side 2** key to decrease the level.
  - The VOX Gain can be adjusted from levels 1 to 10 and OFF.
  - The transceiver announces the VOX Gain level as you adjust it. If OFF is selected, a beep sounds.
- 5 Press the **PTT** switch to save the setting.
  - A beep will sound.
  - The transceiver announces the new VOX Gain level.
- 6 Turn the transceiver power OFF and the ON again to activate VOX.

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**Note:** If a headset is connected to the transceiver while the VOX function is switched ON and the VOX Gain level is configured to a higher, more sensitive level, louder received signals may cause the transceiver to start transmission.

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## BACKGROUND OPERATIONS

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### TIME-OUT TIMER (TOT)

The Time-out Timer prevents callers from using a channel for an extended duration. If you continuously transmit for the duration programmed by your dealer (default is 1 minute), transmission will stop and an alert tone will sound. To stop the tone, release the **PTT** switch.

### BATTERY SAVER

When activated by your dealer, the Battery Saver function decreases the amount of power used after no signal is present and no operations are being performed for 5 seconds. When a signal is received or an operation is performed, Battery Saver turns off.

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**Note:** While the Battery Saver is operating, the LED may flash green when receiving a QT/DQT signal which does not match the QT/DQT tone/code set up in your transceiver.

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### LOW BATTERY WARNING

While operating the transceiver, the Low Battery Warning sounds an alert tone every 30 seconds and the LED indicator blinks red when the battery needs recharged or replaced.

### BUSY CHANNEL LOCKOUT (BCL)

When activated, BCL prevents you from interfering on a channel that is already in use. Pressing the **PTT** switch will cause an alert tone to sound and the transceiver will not transmit. Release the **PTT** switch to stop the tone.

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**Note:** Ask your dealer for an explanation on how BCL functions when using QT, DQT, DTMF, or FleetSync signaling.

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## SIGNALING

### ■ QT/ DQT/ DTMF

The Encoder/Decoder function uses QT/ DQT to segregate talk groups, so users only hear calls from their own group. A DTMF PTT ID is included for dispatch operations or simple remote control applications.

The DTMF decode capabilities include Selective Call ID, Transpond with ID, “Wild Card” Group Calling, and Radio Stun.

### ■ FleetSync

Utilizing KENWOOD’s FleetSync digital signaling protocol, this transceiver has PTT ID and Selective Calling capabilities for managed dispatch operations.

For hazardous/hostile duty environments, a **Side1** or **Side 2** key can be programmed for Emergency status to alert the dispatcher and/or operator in distress.

### ■ MDC-1200

The following features are available with the built-in MDC signaling: PTT ID Encode, Emergency Encode, Stun/Revive Decode, and Radio Check Decode.

## STUN

When a transceiver is lost or stolen (for example), your dispatcher can transmit a stun code to that transceiver to disable transmission or transmission/reception. Stun can be cancelled with a stun reset code.

## BEGINNING/ END OF TRANSMISSION SIGNAL

The Beginning/ End of Transmission identification signals are used to access some repeaters and telephone systems. The Beginning of Transmission ID signal is transmitted when you press the **PTT** switch and the End of Transmission ID signal is transmitted when you release the **PTT** switch.

# KENWOOD

## 使用说明书



VHF 调频手持对讲机

# TK-2307

UHF 调频手持对讲机

# TK-3307

JVCKENWOOD Corporation

# 鸣谢惠购

感谢您购买 KENWOOD 产品用于陆上移动无线电通信。

## 用户注意事项

- ◆ 政府法律禁止在政府控制的区域内使用未经当局许可的无线电发射机。
- ◆ 非法使用将会受到罚款或监禁处罚。
- ◆ 只能由有资格的技术人员进行维修。

**安全性：**操作人员应该知道并了解对讲机操作的一般危险。

### 产品中有毒有害物质或元素的名称及含量

部件名称	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
框架	○	○	○	○	○	○
安装基板	×	○	○	○	○	○
电缆	○	○	○	○	○	○
扬声器	○	○	○	○	○	○
其他 (附件)	×	○	○	○	○	○

本表格依据 SJ/T 11364 的规定编制。

○：表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。

×：表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求。



环保使用期限

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只要用户在使用本产品时遵守注意事项中的各项规定，从制造日期开始到此图标标出的期限为止（环保使用期限）既不会污染环境也不会产生对人体有害的物质。

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出版日：2016年12月7日

JVC建伍株式会社

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## 注意事项

- 对讲机和电池组潮湿时请勿对其充电。
- 对讲机和电池组之间应确保无金属物品。
- 请勿使用非 KENWOOD 指定的选件。
- 如果压铸件或对讲机的其他部件损坏，请勿接触损坏的部件。
- 如果耳机连接到对讲机上，请减小对讲机的音量。当打开静噪时，一定要注意音量。
- 靠近各种机械和机器时，请勿将麦克风电缆挂在颈部周围，因为机械和机器可能会使电缆缠住。
- 请勿将对讲机放置在不稳定的表面上。
- 应确保天线的末端不会碰到您的眼睛。
- 对讲机长时间发射时，散热器和底座会变热。更换电池组时，请勿接触这些位置。
- 请勿将对讲机浸入水中。
- 安装选购附件时，一定要关闭对讲机的电源。
- 充电器是将装置与交流电源线断开的设备。应随时提供交流插头。



## 警告

在下列场合要关闭对讲机的电源：

- 爆炸性的大气中时（易燃气体、尘粒、金属粉末、谷物粉末等）。
- 加油时或停在加油站时。
- 靠近爆破场所时。
- 乘飞机时。（对讲机的使用必须遵循空乘人员提供的管制条例。）
- 贴有关于无线电设备的限制或警告的场合，包括但不限于医疗设施。
- 使用心脏起搏器的人员的附近。



## 注意

- 请勿因任何理由拆卸或改装对讲机。
- 汽车正在行驶时，请勿将对讲机放在安全气囊上或其附近。安全气囊展开时，对讲机可能会弹出，击中驾驶员或乘客。
- 当接触天线端或天线罩露出的任何金属部件时，请勿发射。此时发射可能会引起高频灼伤。
- 如果对讲机发出异常气味或冒烟，请立即关闭对讲机的电源，从对讲机中取出电池组，并与 KENWOOD 经销商联系。
- 驾车时使用对讲机可能违反交通方面的法律。请查阅并遵守您所在地区的驾车法规。
- 请勿将对讲机暴露于极热或极冷的气候条件下。
- 请勿将电池组（或电池盒）与金属物体放在一起携带，因为金属物体可能会使电池端子短路。
- 在空气干燥地区操作对讲机时容易产生电荷（静电）。当在这样的情况下使用耳机附件时，可能会使对讲机通过耳机与您的耳朵之间发生放电。在这种场合下我们建议您只使用扬声器 / 麦克风，以避免放电。

## 有关电池组的信息：

电池组中含有易燃物，例如有机溶剂。误操作会使电池破裂着火或过热、品质下降，或使电池产生其他形式的损坏。请遵守下面的禁止事项。



### 危险

- **请勿拆卸或改造电池！**  
电池组有避免危险的安全功能和保护电路。如果安全功能和保护电路严重受损，电池可能生热、冒烟、破裂或着火。
- **请勿使电池短路！**  
请勿用任何形式的金属（例如纸夹或铁丝）连接 +、- 端子。请勿用装有金属物体（例如铁丝、项链或发夹）的容器携带或保存电池组。如果电池组短路，就会有过量的电流流过，电池可能生热、冒烟、破裂或着火。它也会使金属物体变热。
- **请勿焚烧电池或给电池加热！**  
如果绝缘体熔化，通气孔或安全功能就会损坏，电解液起火，电池可能会生热、冒烟、破裂或着火。
- **请勿将电池放置在火、炉或其他发热器附近（达到 80°C 以上的区域）！**  
如果聚合物隔板因高温而熔化，单体电池内就会发生内部短路，电池可能会生热、冒烟、破裂或着火。
- **请勿将电池组浸入水中或用其他手段使它受潮！**  
如果电池变得潮湿，使用前请先用干毛巾将其擦干。如果电池的保护电路损坏，电池就会以大电流（或高电压）充电，就会发生异常的化学反应。电池可能会生热、冒烟、破裂或着火。
- **请勿在明火附近或在直射的阳光下对电池充电！**  
如果电池的保护电路损坏，电池就会以大电流（或高电压）充电，就会发生异常的化学反应。电池可能会生热、冒烟、破裂或着火。
- **请只使用指定的充电器并按充电要求充电！**  
如果电池不是在指定的条件下（温度超过额定值，电压过高或电流超过额定值，或使用重新改造的充电器）充电，电池可能会过度充电，或产生异常的化学反应。电池可能会生热、冒烟、破裂或着火。
- **请勿用任何物体刺电池、用工具敲打或踩在电池上！**  
这会使电池破裂或变形，引起短路。电池可能会生热、冒烟、破裂或着火。



## 危险

- **请勿使电池受剧烈的震动或将电池扔来扔去！**  
冲击会使电池漏液、生热、冒烟、破裂和/或着火。如果电池的保护电路损坏，电池就会以异常电流（或电压）充电，就会发生异常的化学反应。
- **如果电池组出现任何形式的损坏，都请勿使用电池组！**  
否则电池可能会生热、冒烟、破裂或着火。
- **请勿直接在电池上焊接！**  
如果绝缘体熔化、通气孔或安全功能损坏，电池可能会生热、冒烟、破裂或着火。
- **请勿将电池的极性（和端子）接反！**  
极性接反对电池充电，可能会发生异常的化学反应。在某些情况下，刚放电时可能会出现不希望的大电流。电池可能会生热、冒烟、破裂或着火。
- **请勿反充或反接电池！**  
电池组有正极和负极。如果电池组与充电器或工作设备没有平稳连接，请勿对电池加力；请检查电池的极性。如果电池组与充电器接反，它将反充并产生异常的化学反应。电池可能会生热、冒烟、破裂或着火。
- **请勿接触破裂并漏液的电池！**  
如果电池的电解液进入眼中，请尽快用清水冲洗眼睛，请勿揉搓眼睛。请立即去医院。如果不及处理，可能会导致眼部问题。



## 警告

- **电池的充电请勿超过规定的时间！**  
如果即使规定的时间已过，但电池组仍未结束充电，请停止充电。电池可能会生热、冒烟、破裂或着火。
- **请勿将电池组放入微波容器或高压容器中！**  
否则电池可能会生热、冒烟、破裂或着火。
- **让破裂并漏液的电池组远离明火！**  
如果电池组漏液（电池发出难闻的气味），请立即将它从易燃区移走。电池泄漏的电解液很容易着火，可能会使电池冒烟或着火。
- **请勿使用异常的电池！**  
如果电池组发出难闻的气味、出现不同的颜色、变形、或出现其他的异常，请将它从充电器或工作设备上取下，不要使用。否则电池可能会生热、冒烟、破裂或着火。



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## 开箱和设备检查

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请小心打开对讲机包装。如果发现任何物品丢失或损坏，请立即向送货人提交索赔书。

### 随机附件

- 天线 ..... 1
- 扬声器/麦克风插孔盖 ..... 1
- 扬声器/麦克风锁定架 ..... 1
- 皮带夹 (KBH-10) ..... 1
- 螺丝组
  - M2.6 x 7 mm (黑色)..... 1
  - M3 x 8 mm..... 2
- 使用说明书 ..... 1

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注：有关附件安装说明，请参见“准备工作”。

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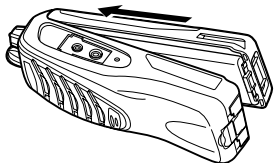
## 准备工作

### 安装/取下（选购的）电池组

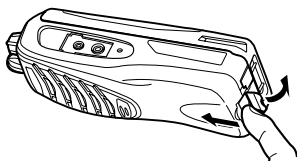


注意

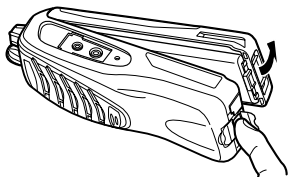
- ◆ 勿使电池端子短接或将电池放入火中。
- ◆ 请勿试图从电池组上取下外壳。



- 1 将电池组与对讲机背面对准，然后压紧电池组与对讲机直到对讲机底部的释放栓锁住。



- 2 要取下电池组，打开对讲机底部的安全栓，然后按下安全栓下面的释放栓。



- 3 按下释放栓时，将电池组从对讲机上拉出。

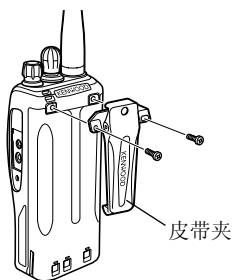
## 安装天线



拿住天线底部，按顺时针方向将天线旋入对讲机顶部的连接器中，直到旋紧为止。

注：天线不能作为手柄、钥匙环系留处，以及扬声器/麦克风附挂点。否则会损坏天线或降低对讲机性能。

## 安装皮带夹



如有必要，用两个随附的M3 x 8 mm螺丝安装固定皮带夹。

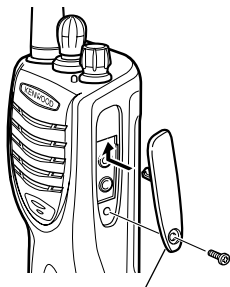
注：如果未安装皮带夹，在连续发射或对讲机放置在热的环境中时，皮带夹安装处可能会变热。



### 注意

安装皮带夹时，请勿使用用于螺丝松动的胶，胶可能会损坏对讲机。胶中含有的丙烯酸酯可能会使对讲机后面板破裂。

## 安装扬声器/麦克风插孔盖。



扬声器/麦克风插孔盖

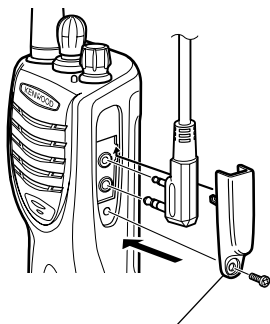
如果不使用扬声器/麦克风，使用随附的M2.6 x 7 mm螺丝安装扬声器/麦克风插孔盖。

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注：要保持对讲机防水，务必使用随附的盖子盖住扬声器/麦克风插孔。

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## 安装选购的扬声器/麦克风（或头戴式耳机）



扬声器/麦克风锁定架

- 1 将扬声器/麦克风（或头戴式耳机）插头插入扬声器/麦克风插孔。
- 2 使用随附的M2.6 x 7 mm螺丝固定锁定架。

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注：使用扬声器/麦克风时，对讲机不能完全防水。

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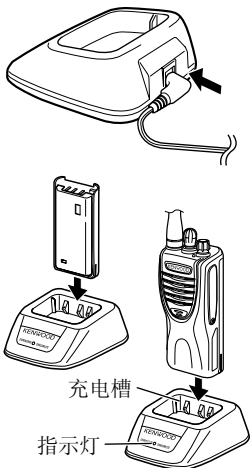
## 电池组充电（选购的电池充电器）

电池组出厂前未充电，使用前请充电。

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**注意：**插入对讲机至充电器前，应一直关闭对讲机。

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- 1 将交流适配器电缆插入充电器后部的插孔上。
- 2 插入交流适配器至交流插座内。
- 3 将电池组或配有电池组的对讲机滑入充电器的充电槽内。
  - 确保电池组的金属接点与充电器端子牢固配对。
  - 指示灯亮红灯，充电开始。

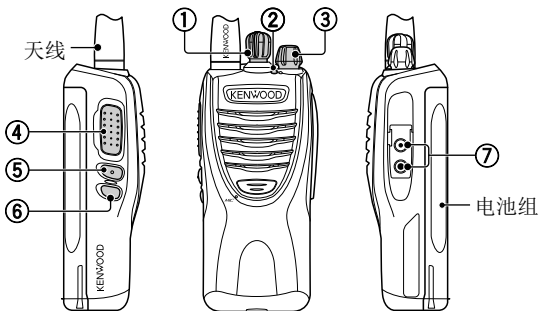
- 4 充电完成时，指示灯亮绿灯。从充电器充电槽内取出电池组或对讲机。
  - 电池组充电时间约3小时。
  - 充电器长期不用时，从交流插座内拔出交流适配器。

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**注：**

- ◆ 指示灯红灯闪烁时，表明电池组故障或电池组接点未与充电器接点正确配对。
  - ◆ 充电时，环境温度应为5℃～40℃之间。在超出该温度范围的环境下充电，会造成充电不充分。
  - ◆ 即使电池组正确充满电，但使用时间仍然减少时，说明电池组寿命结束。更换电池组。
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# 介绍



## ① 频道选择器

旋转改变工作频道。

- 语音通知: 改变频道时, 对讲机会通知新选择的频道编号。(可由经销商激活。)

## ② LED指示灯

有关LED指示灯状态, 请参见第9页。

## ③ 电源开关/音量控制旋钮

顺时针转动打开对讲机电源。要关闭对讲机, 逆时针转动直到出现咔哒声。请旋转调节音量。

## ④ PTT (按下讲话) 开关

按住不放, 然后对着麦克风讲话, 进行发射。

## ⑤ 侧面键1 {参见第7页}

按下启动可编程功能。

## ⑥ 侧面键2 {参见第7页}

按下启动可编程功能。

## ⑦ 扬声器/麦克风插孔

将扬声器/麦克风或头戴式耳机插入该插孔。

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## 可编程辅助功能

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经销商可以为侧面键1和侧面键2编程下列辅助功能之一。

- **无**  
无功能。
- **自动拨号**  
DTMF自动拨号使您可对另一方进行单独呼叫。
- **紧急报警键**  
按住此键不放，进入紧急模式。紧急模式用于执行紧急动作。
- **键盘锁定**  
按住此键不放1秒钟，锁定/解锁对讲机键。
- **按键锁定（带状态存储）**  
该操作与键盘锁定相同，除了以下情况：当关闭然后打开对讲机电源时，这些键盘保持锁定状态。无状态存储时，如果关闭然后打开对讲机电源，键盘锁定功能将被取消。
- **单独工作人员**  
单独工作人员是一种紧急功能，当您进入危险环境（如火灾或隧道）时，可使用该功能。
- **监听**  
按该键，停用信令（QT/DQT， FleetSync信令等）。再按该键返回到正常操作。
- **瞬时监听**  
按住该键不放，停用信令（QT/DQT， FleetSync信令等）。松开该键返回到正常操作。
- **扫描**  
按该键启动扫描对讲机频道。
- **扫描+暂时删除**  
按该键启动扫描对讲机频道。当扫描在不想要的频道上暂停时，可按住该键不放3秒钟，以便从扫描序列中删除该频道。
- **扰频器**  
扰频器可使您在完全私密状态下进行对话。一旦激活，监听您频道的其他方将无法听懂您的对话。

■ **静噪取消**

按下该键听到背景噪声。再按该键返回到正常操作。

■ **瞬时静噪**

按住该键不放，听到背景噪声。松开该键返回到正常操作。

■ **脱网通信**

脱网通信功能允许您不使用中继器直接与其他对讲机通信。

■ **暂时删除**

当扫描在不想要的频道上暂停时，可按该键不放1秒钟，从扫描序列中删除该频道。

■ **低发射功率**

每一频道都被编程为高或低发射功率。在高发射功率频道上，按该键改变发射功率为低功率（不能改变设置为低发射功率的信道而使用高功率）。



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## 基本操作

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- 1 按顺时针方向转动**电源开关/音量控制旋钮**，打开对讲机电源。
  - 如果经销商设置了提示音的话，会发出一声哔音。
- 2 按下编程为**监听或静噪取消功能**的按键收听背景噪音，然后旋转**电源开关/音量控制旋钮**调节音量。
- 3 转动**频道选择器**选择所需的频道。
  - 当接收到适当的信号时，会从扬声器听到声音。
- 4 要发出呼叫，按住**PTT开关**，然后对着麦克风使用正常声调讲话。
  - 请保持麦克风距离嘴唇大约3到4厘米。
- 5 放开**PTT开关**切换到接收状态。

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注：电池组电压过低时，会停止发射，并响起警告音。

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### LED指示灯状态

指示灯颜色	含义
亮红灯	发射
亮绿灯	接收呼叫
闪红灯	发射时电池电力不足
闪绿灯	扫描
闪橙色灯	接收编码呼叫（FleetSync信令等）
闪红灯/橙色灯	所选频道未编程，不能使用。

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## 声控发射（VOX）

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声控发射功能可使您无需用手就能进行发射。该功能必须首先由经销商启动。要使用此功能，必须使用对讲机所支持的头戴式耳机。

要启动声控发射功能以及设定VOX增益电平，请按照下列步骤进行：

- 1 将头戴式耳机与对讲机连接。
  - 如果不将头戴式耳机与对讲机的接线插孔连接，就不能启动声控发射功能。
- 2 先关闭对讲机电源，打开对讲机电源时，按住**侧面键1**。
- 3 继续按住**侧面键1**直至发出提示音。
  - LED指示灯点亮为橙色。
  - 放开**侧面键1**时，对讲机广播VOX增益电平。
- 4 按下**侧面键1**增大VOX增益电平，按下**侧面键2**减小VOX增益电平。
  - VOX增益可以在第1级和第10级以及OFF（关）之间调节。
  - 调节增益电平时，对讲机广播VOX增益电平。如果选择OFF（关），会发出一声提示音。
- 5 按下PTT开关存储设置。
  - 响起一声提示音。
  - 对讲机广播新的VOX增益电平。
- 6 关断对讲机电源，并且再次打开启动声控发射功能。

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注：在声控发射功能打开并且VOX增益设定比较高、比较灵敏的等级时，如果将头戴式耳机与对讲机连接，则较强的接收信号可能会引起对讲机开始发射。

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## 后台操作

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### 超时定时器（TOT）

超时定时器会防止呼叫方占用频道时间过长。如果连续发射超过经销商设定的编程时间（出厂时间设定为1分钟），对讲机会停止发射并且响起警告音。要停止警告音，请放开PTT开关。

### 电池省电

当经销商启动电池省电功能时，该功能会在5秒钟内不出现信号以及无操作情况下减少使用的电量。接收信号或进行操作时，电池省电关闭。

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注：处于电池省电状态时，如果接收到的QT/DQT信号与对讲机中设置的QT/DQT亚音/代码不匹配，则LED可能闪烁绿色。

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### 低电量警告

操作对讲机时，低电量报警会在电池需要再充电或更换的情况下每隔30秒响一声警告音，且LED指示灯闪烁红色。

### 繁忙信道锁定（BCL）

启用该功能时，可以防止干扰正与您使用同一频道的其他电台。按PTT开关会使警告音响起并且对讲机不会发射。放开PTT开关能停止警告音。

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注：使用QT、DQT、DTMF或FleetSync信令时，请向经销商咨询关于BCL功能的解释。

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## 信令

### ■ QT/ DQT/ DTMF

编码器/解码器功能采用QT/ DQT隔离通话群，因此用户只听到来自其自己组的呼叫。

DTMF PTT ID用于调度操作或简单遥控应用。

DTMF解码功能包括选择呼叫ID、使用ID自动应答功能、“通配符”组呼和无线电遥毙。

### ■ FleetSync

利用KENWOOD的FleetSync数字信令协议，该对讲机具有用于可控调度操作的PTT ID和选择呼叫功能。

对于危险/不利的工作环境，可对**侧面键1**或**侧面键2**编程以应对紧急状态，提示调度员和/或操作员遇到险情。

### ■ MDC-1200

内置的MDC信令具有以下功能：PTT ID编码、紧急编码、遥毙/恢复解码和无线电检查解码。

## 遥毙

对讲机丢失或被盗时（如果发生），调度员可发射遥毙代码至该对讲机以禁止发射或发射/接收。可用复活代码解除遥毙。

## 发射开始/发射结束信号

发射开始/发射结束识别信号被用于接续某些中继器和电话系统。按下PTT开关传输发射开始识别信号，松开PTT开关传输发射结束识别信号。