KENWOOD

TK-2260EX/ TK-3260EX

VHF FM TRANSCEIVER/
UHF FM TRANSCEIVER

INSTRUCTION MANUAL

ÉMETTEUR-RÉCEPTEUR FM VHF/
ÉMETTEUR-RÉCEPTEUR FM UHF

MODE D'EMPLOI

TRANSCEPTOR FM VHF/
TRANSCEPTOR FM UHF

MANUAL DE INSTRUCCIONES

RICETRASMETTITORE FM VHF/
RICETRASMETTITORE FM UHF

MANUALE DI ISTRUZIONI

VHF-FM-TRANSCEIVER/
UHF-FM-TRANSCEIVER

BEDIENUNGSANLEITUNG

VHF FM ZENDONTVANGER/
UHF FM ZENDONTVANGER

GEBRUIKSAANWIJZING

VHF FM EL TELSİZİ/
UHF FM EL TELSİZİ

KULLANIM KILAVUZU

ΠΟΜΠΟΔΕΚΤΗΣ VHF FM/
ΠΟΜΠΟΔΕΚΤΗΣ UHF FM

ΟΔΗΓΙΕΣ ΧΡΗΣΗΣ

Kenwood Corporation

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VHF FM TRANSCEIVER/
UHF FM TRANSCEIVER

TK-2260EX/ TK-3260EX

ENGLISH

INSTRUCTION MANUAL

Kenwood Corporation

NOTIFICATION

This equipment complies with the essential requirements of Directive 1999/5/EC.

The use of the warning symbol ⓘ means the equipment is subject to restrictions of use in certain countries.

This equipment requires a licence and is intended for use in the countries as below.

AT	BE	DK	FI	FR	DE	GR	IS
IE	IT	LI	LU	NL	NO	PT	ES
SE	CH	GB	CY	CZ	EE	HU	LV
LT	MT	PL	SK	SI	BG	RO	

ISO3166

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.
- For use in explosive atmospheres, read additional document "SAFETY MANUAL FOR HAZARDOUS LOCATIONS" (B62-2233-XX).

Information on Disposal of Old Electrical and Electronic Equipment and Batteries (applicable for EU countries that have adopted separate waste collection systems)

Products and batteries with the symbol (crossed-out wheeled bin) cannot be disposed as household waste.
Old electrical and electronic equipment and batteries should be recycled at a facility capable of handling these items and their waste byproducts.
Contact your local authority for details in locating a recycle facility nearest to you.

Proper recycling and waste disposal will help conserve resources whilst preventing detrimental effects on our health and the environment.

Notice: The sign "Pb" below the symbol for batteries indicates that this battery contains lead.

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.
- Use only **Kenwood** specified explosion-protected options for the TK-2260EX and TK-3260EX transceivers.
- If the die-cast chassis or other transceiver part is damaged, do not touch the damaged parts.
- 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:

- Near 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 with metal objects, as they may short the battery terminals.
- Danger of explosion if the battery is incorrectly replaced; replace only with the same type.

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 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.
- **Avoid immersing the battery in water or getting it wet by other means!**
  If the battery becomes wet, wipe it off with a dry towel before use. 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

- **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.
- **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.

DANGER

- **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.
- **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

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

SUPPLIED ACCESSORIES

Battery pack (KNB-58LEX) 1
Belt clip (KBH-16EX) 1
- Screws for belt clip (M3 x 8 mm) 2

Universal connector cap 1
- Screw (pre assembled) 1
- Packing (pre assembled) 1

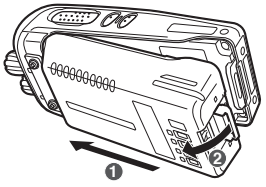
Instruction manual 1

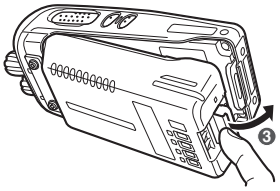
Note:

- Refer to "PREPARATION" for accessory installation instructions.
- For charging the battery pack, refer to the optional battery charger instruction manual.

PREPARATION

INSTALLING/ REMOVING THE BATTERY PACK

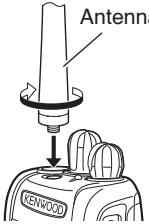




1. Match the guides of the battery pack with the grooves on the upper rear of the transceiver, then firmly press the battery pack in place.
2. Lock the safety catch to prevent accidentally releasing the battery pack.
3. To remove the battery pack, lift the safety catch, press the release latch, then pull the battery pack away from the transceiver.

Note: Before charging a battery pack that is attached to the transceiver, ensure that the safety catch is firmly closed.

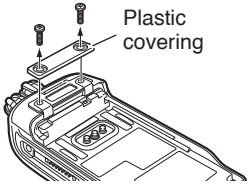
INSTALLING THE (OPTIONAL) ANTENNA



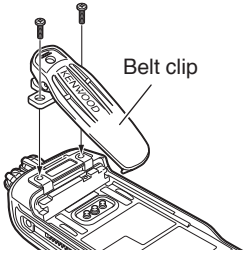
Screw the antenna into the connector on the top of the transceiver by holding the antenna at its base and turning it clockwise until secure.

INSTALLING THE BELT CLIP

Note: When first installing the belt clip, you must remove the battery pack from the rear of the transceiver.



1 Remove the 2 screws from the rear of the transceiver, then remove the plastic covering that was held in place.



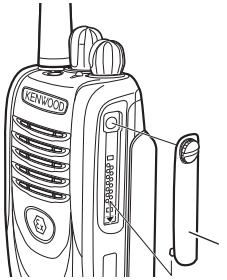
2 Insert the belt clip mount into the space on the rear of the transceiver.

3 Using the 2 screws, affix the belt clip in place.

CAUTION

- When the belt clip is not installed, leave the plastic covering in place.
- 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 CAP OVER THE UNIVERSAL CONNECTOR

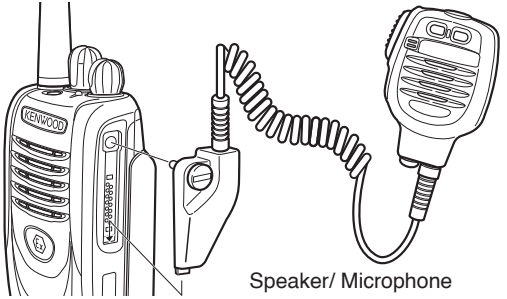


Insert the cap into place over the universal connector and secure it in place using the attached screw.

INSTALLING THE (OPTIONAL) SPEAKER/ MICROPHONE

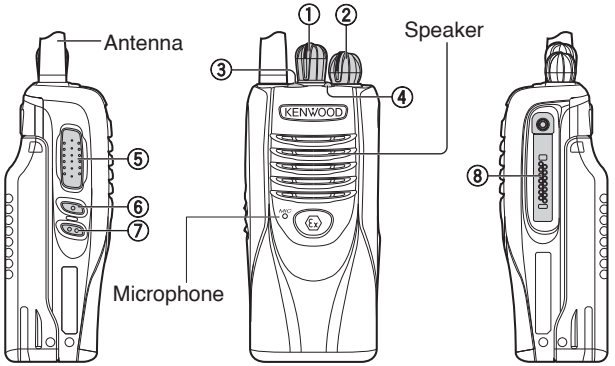
1 Insert the guide of the speaker/ microphone or headset connector into place over the universal connector.

2 Secure the connector in place using the attached screw.



Note: When not using an optional speaker/ microphone, install the cap over the universal connector.

ORIENTATION



① **Channel Selector**
Rotate to select a channel.

② **Power switch/ Volume control**
Rotate to turn the transceiver ON/OFF and to adjust the volume.

③ **Auxiliary key**
Press to activate its programmable function {page 6}.

④ **LED indicator**
For the LED indicator status, refer to page 10.

⑤ **PTT (Push-To-Talk) switch**
Press and hold this switch, then speak into the microphone to call a station.

⑥ **Side 1 key**
Press to activate its programmable function {page 6}.

⑦ **Side 2 key**
Press to activate its programmable function {page 6}.

⑧ **Universal connector**
Connect a speaker/ microphone here.

PROGRAMMABLE AUXILIARY FUNCTIONS

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

■ **None**

No function has been programmed.

■ **Activity Detection**

Press this key to toggle Activity Detection on and off. If an event occurs while Activity Detection is enabled, for instance, if the transceiver remains in the tilt or stationary state or is excessively in motion longer than the preconfigured time, the transceiver enters Emergency Mode.

Note:

- When Activity Detection has been turned off, and the transceiver power is then turned off and back on, Activity Detection is automatically enabled.
- When using this function, verify that it operates before taking the transceiver.

■ **Call 1**

Press this key to send the 5-tone code assigned to the Call 1 key.

■ **Call 2**

Press this key to send the 5-tone code assigned to the Call 2 key.

■ **Emergency**

Press and hold this key to enter Emergency Mode. Emergency Mode is used to carry out emergency actions.

Note: This function can be programmed only on the Auxiliary key and the optional speaker/ microphone PF1 (orange) key.

■ **Key Lock**

Press and hold this key for 1 second to turn the Key Lock function on. Press and hold this key again for 1 second to turn Key Lock off. While Key Lock is activated, the following keys will not function:
Auxiliary key, **Side 1** key, **Side 2** key, and Microphone PF keys.

Note: You can still use the following key functions while Key Lock is activated: Emergency, Monitory Momentary, Monitor Toggle, Squelch Off, Momentary, and Squelch Off Toggle.

■ **Lone Worker**

Press this key to enter or exit Lone Worker Mode. If no key is pressed during the time configured for the Lone Worker interval time in Lone Worker Mode, a Lone Worker tone will sound. Subsequently, if no key is pressed while the Lone Worker tone sounds, the transceiver will enter Emergency Mode.

■ **Monitor Momentary**

Press and hold this key to deactivate QT or DQT signaling. Release the key to return to normal operation.

■ **Monitor Toggle**

Momentarily press this key to deactivate QT or DQT signaling. Press the key again to return to normal operation.

■ **Scan**

Press this key to start scanning the transceiver channels.

■ **Scan Temporary Delete**

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

■ **Scrambler**

Press this key to toggle the Scrambler on and off. The Scrambler function allows you to hold a conversation in complete privacy. When activated, any other party that is listening to your channel will be unable to understand your conversation.

Note: This function cannot be used in certain countries. Contact your **Kenwood** dealer for further information.

■ **Squelch Off Momentary**

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

■ **Squelch Off Toggle**

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

■ **Talk Around**

Press this key to toggle Talk Around on and off. The Talk Around function allows you to communicate directly with other transceivers, without the use of a repeater.

BASIC OPERATIONS

Your dealer can program your transceiver with Conventional Group, Voting, Voting with Signaling, or Free Channel Call.

TRANSMITTING

1 Turn the **Power switch/ Volume control** clockwise to switch the transceiver power ON.
- A beep sounds if enabled by your dealer.

2 Rotate the **Channel selector** to select your desired channel.
- In Voting, Voting with Signaling, and Free Channel Call, the channel is selected automatically.

3 In Conventional groups, press the key programmed as **Monitor** or **Squelch Off** to check whether or not the channel is free.
- If the channel is busy, wait until it becomes free.

4 Press the **PTT** switch and speak into the microphone. Release the **PTT** switch to receive.
- For best sound quality at the receiving station, hold the microphone approximately 3 ~ 4 cm (1.5 inches) from your mouth.
- In Voting and Voting with Signaling, the transceiver will search for the closest repeater and transmit using that repeater's frequency.
- In Free Channel Call, the transceiver will search for a free channel and will begin transmitting on that channel.

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

RECEIVING

1 Select the desired channel using the **Channel selector**.
   - Alternatively, in Conventional Groups, you can activate the Scan function if desired.
   - In Voting and Voting with Signaling, the transceiver will automatically search for the strongest signal and receive on that frequency.
   - In Free Channel Call, the transceiver will automatically search for any signal and will receive on that channel.

2 When you hear a caller's voice, readjust the volume as necessary.

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 (5-tone, FleetSync signaling, etc.)

BACKGROUND OPERATIONS

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 60 seconds), 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 10 seconds. When a signal is received or an operation is performed, Battery Saver turns off.

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.

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.

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

OPTIONAL SIGNALING

Your dealer may also program several types of optional signaling for your transceiver channels.

- **5-tone Signaling:**

  This function opens the squelch only when the transceiver receives the 5 tones programmed in your transceiver, in succession. Transceivers that do not transmit the correct tones will not be heard.

- **DTMF Signaling:**

  This function opens the squelch only when the transceiver receives the DTMF code (3 to 10 digits) programmed in your transceiver. Each transceiver is normally programmed with a unique code. You will not hear calls from transceivers that are not programmed with a matching code.

- **FleetSync Signaling:**

  FleetSync is a protocol owned by Kenwood Corporation. This function opens the squelch only when the transceiver receives the Fleet code and ID code programmed in your transceiver. Calls that do not contain the correct codes will not be heard.

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.