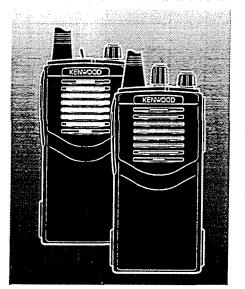


INSTRUCTION MANUAL



VHF FM TRANSCEIVER

TK-2102/

TK-2107

UHF FM TRANSCEIVER

TK-3102/

TK-3107

KENWOOD CORPORATION

© B62-1163-00 (K) 09 08 07 06 05 04 03 02 01 00

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TK-2100/3100 E 00 Cover

THANK YOU!

We are grateful for your purchase of this **KENWOOD** transceiver. We believe this easy-to-use transceiver will provide you with dependable and reliable communications.

KENWOOD MEANS WIRELESS

Founded more than 50 years ago, KENWOOD's Car and Home Audio products are in demand around the world. KENWOOD is also a major developer and producer of wireless and digital wireless communications products. KENWOOD provides top quality Amateur Radio products for the serious hobbyist, and commercial radio products and systems for business, industry, and public safety users, worldwide.

INFORMATION

If you would like information on other quality **KENWOOD** products, please call (USA only):

1-800-KENWOOD (1-800-536-9663)

KENWOOD is on the Web:

Communications Products: Amateur, Land Mobile (Commercial), Systems:

http://www.kenwood.net

Consumer Electronics: Home & Car Audio, Stage 3,

Computer Products:

http://www.kenwoodusa.com

FCC LICENSE INFORMATION

Your KENWOOD radio operates on communications frequencies which are subject to FCC (Federal Communications Commission) Rules & Regulations. FCC Rules require that all operators using Private Land Mobile radio frequencies obtain a radio license before operating their equipment. Application for license must be made on FCC form 600, and schedules D, E, and G.

FAX: Forms can be obtained by fax from the FCC Fax-On-Demand system. Call 1-202-418-0177 from your fax machine and request document number 000600 for the form, schedules, and instructions.

MAIL: Forms can be ordered by telephone, and will be sent to you by first class mail. Call the FCC Forms Hotline at 1-800-418-FORM (1-800-418-3676).

INTERNET: Form 600 and instructions can be downloaded from the FCC Forms website at http://www.fcc.gov/formpage.html

Before filling out your Form 600 application Technical Data section, you must decide which frequency (or frequencies) you will operate on.

QUESTIONS? Call the FCC for license application questions at 1-888-CALL-FCC (1-888-225-5322).

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TK-2102: 2 channel VHF FM Transceiver TK-2107: 16 channel VHF FM Transceiver TK-3102: 2 channel UHF FM Transceiver TK-3107: 16 channel UHF FM Transceiver

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 OR IMPRISONMENT OR BOTH.

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

PRECAUTIONS

- · Refer service to qualified technicians only.
- Do not operate your transceiver or charge your battery pack in an explosive atmosphere (gases, dust, fumes, etc.).
- Turn OFF your transceiver while taking on fuel, or while parked in gasoline service stations.
- · Do not modify this transceiver for any reason.
- Do not expose the transceiver to long periods of direct sunlight, nor place it close to heating appliances.
- Do not place the transceiver in excessively dusty, humid, and wet areas, nor on unstable surfaces.



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One or more of the following statements may be applicable:

FCC WARNING

This equipment generates or uses radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

INFORMATION TO THE DIGITAL DEVICE USER REQUIRED BY THE FCC

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can generate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
 Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer for technical assistance.

ATTENTION (U.S.A. Only):



The RBRC Recycle seal found on KENWOOD nickel-cadmium (Ni-Cd) battery packs indicates KENWOOD's voluntary participation in an industry program to collect and recycle Ni-Cd batteries after their operating life has expired. The RBRC program is an alternative to disposing Ni-Cd batteries with your regular refuse or in municipal waste streams, which is illegal in some areas which is illegal in some areas.

For information on Ni-Cd battery recycling in your area, call (toll free) 1-800-8-BATTERY (1-800-822-8837).

KENWOOD's involvement in this program is part of our commitment to preserve our environment and conserve our natural resources.

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Carefully unpack the transceiver. We recommend that you identify the items listed in the following table before discarding the packing material. If any items have been damaged during shipment, file a claim with the carrier immediately.

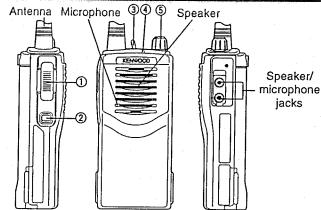
■ Supplied Accessories

	Item	Part Number	Quantity
Antenna	TK-2102/ TK-2107	T90-0695-X5	.4
	TK-3102/ TK-3107	T90-0694-X5	
Battery charger		W08-0598-X5	1
AC adaptor		W08-0551-X5	1
NiCd battery pack (KNB-15A)		W09-0940-X5	1
Speaker/ microphone jack cover		B09-0351-X3	1
Speaker/ microphone locking bracket		J21-4493-X4	1
Belt clip		J29-0624-03	i
Screw set		N99-0396-X5	1
Warranty card			1
Instruction manual		B62-1163-XX	1

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- ① PTT (Push-To-Talk) switch
 Press this switch, then speak into the microphone to call a station. Release the switch to receive.
- ② Monitor key Press and hold this key to turn the squelch OFF. You will hear background noise. Release the key to turn the squelch back ON.
- ③ Channel switch Toggle this switch to select channel 1 or channel 2.
- 4 LED indicator Lights red while transmitting, green while receiving a signal, and orange while in setup mode. Flashes red when the battery voltage is low while transmitting.
- (5) Power switch/ Volume control

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

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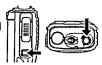
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OPERATING BASICS (TK-2102/ TK-3102)

 Switch ON the transceiver by turning the Power switch/ Volume control clockwise.



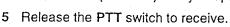
- · A beep sounds.
- 2 Adjust the volume by pressing and holding the Monitor key, then rotating the Power switch/ Volume control.



- 3 Use the **Channel** switch to choose 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
 1.5 inches (3 to 4 cm) from your lips.



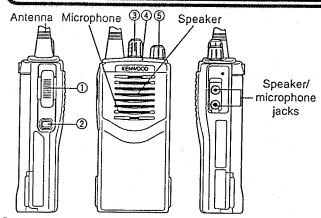
- When the battery pack voltage becomes too low, transmission will stop and the LED will blink red. Refer to "Low Battery Warning" on page 10.
- Channels are preprogrammed with frequencies and QT tones.





Note:





- 1 PTT (Push-To-Talk) switch
 Press this switch, then speak into the microphone to
 call a station. Release the switch to receive.
- ② Monitor key Press and hold this key to turn the squelch OFF. You will hear background noise. Release the key to turn the squelch back ON.
- 3 Channel selector Rotate to select channels 1 ~ 16.
- 4 LED indicator Lights red while transmitting, green while receiving a signal, and orange while in setup mode. Flashes red when the battery voltage is low while transmitting.
- (5) Power switch/ Volume control
 Turn clockwise to switch ON the transceiver. Turn
 counterclockwise until a click sounds, to switch OFF
 the transceiver. Rotate to adjust the volume level.

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OPERATING BASICS (TK-2107/TK-3107)

 Switch ON the transceiver by turning the Power switch/ Volume control clockwise.



- · A beep sounds.
- 2 Adjust the volume by pressing and holding the Monitor key, then rotating the Power switch/ Volume control.



- 3 Rotate the Channel selector to choose 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
 1.5 inches (3 to 4 cm) from your lips.



5 Release the PTT switch to receive.

Note:

- When the battery pack voltage becomes too low, transmission will stop and the LED will blink red. Refer to "Low Battery Warning" on page 10.
- Channels are preprogrammed with frequencies and QT tones.





Time-out Timer (TOT)

The purpose of the Time-out Timer is to prevent any single person from using a channel for an extended period of time.

If you continuously transmit for 3 minutes, the transceiver will stop transmitting and a tone will sound. To stop the tone, release the PTT switch. You can press the PTT switch again to resume transmitting.

Battery Save

The Battery Save function decreases the amount of power used when a signal is not being received and no operations are being performed (no keys are being pressed, and no switches are being turned).

While the channel is not busy and no operation is performed for 10 seconds, Battery Save is enabled. When a signal is received or an operation is performed, Battery Save is disabled.

■ Low Battery Warning

Low Battery Warning alerts you when the battery needs to be recharged.

While transmitting, if the battery power goes below a pre-determined value, the LED will blink red. When a tone sounds, the transceiver stops transmitting. Replace or recharge the battery pack.

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Initially charging the battery pack after purchase or extended storage (greater than 2 months) will not bring the battery pack to its normal operating capacity. After repeating the charge/discharge cycle two or three times, the operating capacity will increase to normal.

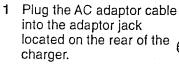
CAUTION:

- ◆ DO NOT RECHARGE THE BATTERY PACK IF IT IS ALREADY FULLY CHARGED. DOING SO MAY CAUSE THE LIFE OF THE BATTERY PACK TO SHORTEN OR THE BATTERY PACK MAY BE DAMAGED.
- ◆ AFTER RECHARGING THE BATTERY PACK, DISCONNECT IT FROM THE CHARGER. CHARGING THE BATTERY PACK FOR MORE THAN 5 DAYS MAY REDUCE THE BATTERY PACK LIFE DUE TO OVERCHARGING.

Note:

- The ambient temperature should be between 41 and 104°F (5 and 40°C) while charging is in progress. Charging outside this range may not fully charge the battery.
 Always switch OFF the transceiver equipped with a NiCd battery
- Always switch OFF the transceiver equipped with a NiCd battery pack before charging. Using the transceiver while charging its battery pack will interfere with correct charging.
- The battery pack life is over when its operating time decreases even though it is fully and correctly charged. Replace the battery pack.





- 2 Plug the AC adaptor into an AC outlet.
- 3 Slide the NiCd battery pack or the transceiver equipped with a NiCd battery pack into the charging slot.
 - Make sure the metal contacts on the battery pack come in contact with the charging terminals.
 - The charger LED lights and charging begins.
- 4 After charging the supplied KNB-15A battery pack for 15 hours, remove it or the transceiver from the charger.
 - The charger does not turn OFF automatically after charging is completed.
- 5 Unplug the AC adaptor from the AC outlet.

Note: It takes approximately 8 hours to fully charge the optional KNB-14 battery pack.









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OPTIONAL ACCESSORIES

You can use the following accessories with your transceiver:

KNB-14: Standard Battery (7.2 V/ 600 mAh)

KNB-15A: Long Life Battery (7.2 V/ 1100 mAh)

KSC-15: Regular Battery Charger

• KSC-16: Rapid Battery Charger

• KSC-21R: Refreshable Rapid Battery Charger

KHS-1: Head Set with VOX (Voice Operated)

Transmit)

KMC-17: Speaker/ Microphone (Standard Duty)

• KMC-21: Speaker/ Microphone (Light Duty)

• KBP-1: Alkaline Battery Case

KBH-8: Spring-action Belt Clip

KWR-1: Water Resistant Bag