KENWOOD

B5A-2531-30 (K)

DIGITAL TRANSCEIVER

NX-5000 series
NX-3000 series
TK-D740 TK-D840

USER GUIDE

This User guide covers only the basic operations of your radio. For using details instruction manual, refer to the following URL or QR code.

https://manual.kenwood.com/files/B5K-0509-00.pdf

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JVCKENWOOD Corporation

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.

WARNING

- ◆ **EXPLOSIVE ATMOSPHERES (GASES, DUST, FUMES, etc.)**
  Turn OFF your transceiver while taking on fuel or while parked in gasoline service stations. Do not carry spare fuel containers in the trunk of your vehicle if your transceiver is mounted in the trunk area.
- ◆ **INJURY FROM RADIO FREQUENCY TRANSMISSIONS**
  Do not operate your transceiver when somebody is either standing near to or touching the antenna, to avoid the possibility of radio frequency burns or related physical injury.
- ◆ **DYNAMITE BLASTING CAPS**
  Operating the transceiver within 500 feet (150 m) of dynamite blasting caps may cause them to explode. Turn OFF your transceiver when in an area where blasting is in progress, or where "TURN OFF TWO-WAY RADIO" signs have been posted. If you are transporting blasting caps in your vehicle, make sure they are carried in a closed metal box with a padded interior. Do not transmit while the caps are being placed into or removed from the container.

PRECAUTIONS

Observe the following precautions to prevent fire, personal injury, and transceiver damage.

- Do not attempt to configure the transceiver while driving; it is too dangerous.
- Do not disassemble or modify the transceiver for any reason.
- Do not expose the transceiver to long periods of direct sunlight, nor place it near heating appliances.
- If an abnormal odor or smoke is detected coming from the transceiver, switch the transceiver power off immediately, 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 use options not specified by **KENWOOD**.
- Do not put the plastic bag used for packing of this equipment on the place which reaches a small child's hand. It will become a cause of suffocation if it wears flatly.
- Do not place the transceiver on unstable surfaces.
- Keep the volume as low as possible to protect your hearing.
- Always switch the transceiver power off before installing optional accessories.
- To dispose of built-in battery, be sure to comply with the laws and regulations in your country or region.

CAUTION

- ◆ The transceiver operates in 12 V negative ground systems only! Check the battery polarity and voltage of the vehicle before installing the transceiver.
- ◆ Use only the supplied DC power cable or a **KENWOOD** optional DC power cable.
- ◆ Do not cut and/or remove the fuse holder on the DC power cable.
- ◆ Do not place the microphone cable around your neck while near machinery that may catch the cable.
- ◆ When replacing the fuse in the DC power cable, be sure to replace it with a fuse of the same value. Never replace a fuse with a fuse that has a higher value.

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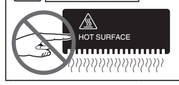
WARNING

- ◆ For passenger safety, install the transceiver securely using the supplied or optional mounting bracket and screw set so the transceiver will not break loose in the event of a collision.

CAUTION



Do not touch the metal surface of the transceiver while it is in use. Do not mount the transceiver such that the chassis can come in contact with skin.
High temperatures may burn your skin.

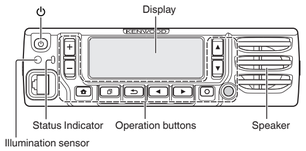
SUPPLIED ACCESSORIES

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

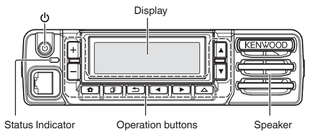
Item	NX-5000 series			NX-3000 series	TK-D740 TK-D840
	NX-5xxx	NX-5xxxB	NX-5xxxHB		
DC power cable with fuses (15 A)	1	–	–	1	1
Mounting bracket	1	–	–	1	1
Microphone	1	–	–	1	1
Microphone hanger	1	–	–	1	1
4 x 16 mm self-tapping screw	3	–	–	3	3
Screw set					
5 x 16 mm self-tapping screw	4	–	–	4	4
M4 x 6 mm hex-headed screw with washer	4	–	–	4	4
Spring washer	4	–	–	4	4
Flat washer	4	–	–	4	4
Socket	–	–	1	–	–
Molding cover	–	–	1	–	–
M4 x 10 mm pan head sems screw	–	–	2	–	–
User guide	1	1	1	1	1

BASIC OPERATION

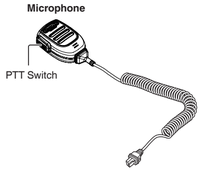
NX-5000 series
The illustration shows the model with an operation panel (Option:KCH-19) attached.



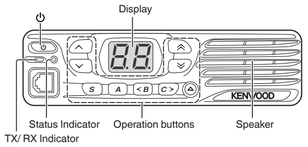
NX-3000 series



Microphone



TK-D740/ TK-D840



SWITCHING POWER ON/OFF

Press [⏻] to switch the transceiver ON.
Press [⏻] again to switch the transceiver OFF.

ADJUSTING THE VOLUME

Press the **[Volume Up]** button to increase the volume. Press the **[Volume Down]** button to decrease the volume.

SELECTING A ZONE AND CHANNEL

Select the desired zone and channel using the buttons programmed as **[Zone Up]**/ **[Zone Down]** and **[Channel Up]**/ **[Channel Down]**.

TRANSMITTING

1 Select the desired zone and channel.

2 Press the button 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.

3 Press the **PTT** switch and speak into the microphone. Release the **PTT** switch to receive.
- For best sound quality, hold the microphone approximately 1.5 inches (3 ~ 4 cm) from your mouth.

RECEIVING

Select the desired zone and channel. If signaling has been programmed on the selected channel, you will hear a call only if the received signal matches your transceiver settings.

Receiving Group Calls (Digital)

When you receive a group call on a Conventional channel and the received group ID matches the ID set up on your transceiver, you can hear the caller's voice.
When you receive a group call on a Trunking channel, the transceiver automatically switches to the communications channel to receive the call.

Receiving Individual Calls (Digital)

When you receive an individual call, a ringing tone will sound and the caller's ID will appear on the display. To respond to the call, press and hold the **PTT** switch and speak into the transceiver as you would during a normal transmission.

MANDATORY SAFETY INSTRUCTIONS TO INSTALLERS AND USERS

- Use only manufacturer or dealer supplied antenna.
- Antenna Minimum Safe Distance: **Refer to the values in the table below.**
- Antenna Gain: **0** dBd referenced to a dipole.

The Federal Communications Commission has adopted a safety standard for human exposure to RF (Radio Frequency) energy which is below the OSHA (Occupational Safety and Health Act) limits.

- **Antenna Mounting:** The antenna supplied by the manufacturer or radio dealer must not be mounted at a location such that during radio transmission, any person or persons can come closer than the minimum safe distance indicated in the table below.
- To comply with current FCC/ ISED RF Exposure limits, the antenna must be installed at or exceeding the minimum safe distance shown above, and in accordance with the requirements of the antenna manufacturer or supplier.
- Vehicle installation: The antenna can be mounted at the center of a vehicle metal roof or trunk lid, if the minimum safe distance is observed.
- Base Station Installation: The antenna should be fixed-mounted on an outdoor permanent structure. RF Exposure compliance must be addressed at the time of installation.

Antenna substitution: Do not substitute any antenna for the one supplied or recommended by the manufacturer or radio dealer.

You may be exposing person or persons to excess radio frequency radiation. You may contact your radio dealer or the manufacturer for further instructions.

WARNING

Maintain a separation distance from the antenna to person(s) of at least the distance indicated in the table below.

You, as the qualified end-user of this radio device must control the exposure conditions of bystanders to ensure the minimum separation distance (table below) is maintained between the antenna and nearby persons for satisfying RF Exposure compliance. The operation of this transmitter must satisfy the requirements of Occupational/Controlled Exposure Environment, for work-related use, transmit only when person(s) are at least the minimum distance from the properly installed, externally mounted antenna. Transmit only when people outside the vehicle are at least the recommended minimum lateral distance away from the antenna/vehicle.

Antenna Minimum Safe Distance

VHF DIGITAL TRANSCEIVER	60 cm (2 feet), 50% duty Cycle
VHF DIGITAL TRANSCEIVER (NX-5700H)	200 cm (7 feet), 50% duty Cycle
VHF DIGITAL TRANSCEIVER (NX-5600H)	240 cm (8 feet), 50% duty Cycle
UHF DIGITAL TRANSCEIVER (NX-5800H)	160 cm (5.3 feet), 50% duty Cycle
UHF DIGITAL TRANSCEIVER/ 700/800 MHz DIGITAL TRANSCEIVER	40 cm (1.3 feet), 50% duty Cycle
800 MHz DIGITAL TRANSCEIVER (NX-3920G) 900 MHz DIGITAL TRANSCEIVER (NX-3921G)	70 cm (2.3 feet), 50% duty Cycle

"This transmitter is authorized to operate with a maximum duty factor of 50%, in typical push-to-talk mode, for satisfying FCC/ ISED RF exposure compliance requirements."

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 by the party responsible/ JVCKENWOOD. 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.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.

2. This device must accept any interference, including interference that may cause undesired operation of the device.

(NX-5000/ NX-3000 series)

SUPPLIER'S DECLARATION OF CONFORMITY

47 CFR § 2.1077 Compliance Information

Trade name: KENWOOD

Model(s): NX-5000 series, NX-3000 series, TK-D740 and TK-D840

Responsible party: JVCKENWOOD USA Corporation 1440 Corporate Drive, Irving, TX 75038

Telephone number: 972-819-0700

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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INFORMATION ON SOFTWARE LICENSE

This transceiver uses a software according to the following license agreements. (NX-5000/ NX-3000 series)

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Jean-loup Gailly (jloup@gzip.org)
Mark Adler (madler@alumni.caltech.edu)

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printf("%s",png_get_copyright(NULL));

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Glenn Randers-Pehrson

glennrp at users.sourceforge.net

December 19, 2013

***Md5**

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L. Peter Deutsch
ghost@aladdin.com