KENWOOD

VHF/UHF TRANSCEIVER

NX-5000 series
NX-3000 series
NX-1000 series

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-0995-00.pdf

JVCKENWOOD Corporation   B5A-4028-00 (K)

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.

One or more of the following statements may be applicable:

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.
• JVCKENWOOD Corporation shall be free from any responsibilities for any incidental losses or damages, such as missing communications or call opportunities caused by a failure or performance error of the transceiver.
• If condensation forms, let it air dry or leave it in the same environment for a long time to eliminate the condensation before using it.

⚠ 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

◆ 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.

◆ 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.

⚠ HOT SURFACE

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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

Frequeny Range	Rated Power	Safe Distance
VHF	50 W	170 cm (5.6 feet)
	110 W	240 cm (7.9 feet)
UHF	45 W	140 cm (4.6 feet)
	100 W	160 cm (5.3 feet)
700/800 MHz	30 W	100 cm (3.3 feet)
800/900 MHz	15 W	70 cm (2.3 feet)

"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."
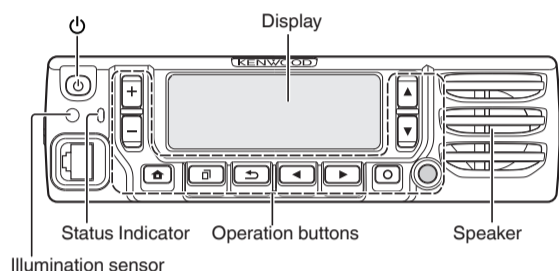
SUPPLIED ACCESSORIES

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.

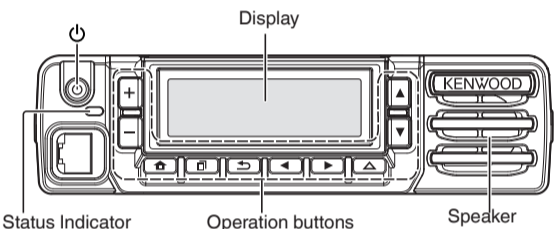| Item	NX-5000 series			NX-3000 series	NX-1000 series
	NX-5xxx	NX-5xxxB	NX-5xxxHB		
DC power cable with fuses (15 A)	1	–	–	1	1
Mounting bracket	1	–	–	1	1
Microphone	1	–	–	1	1
Microphone hanger	1	–	–	1	1
4 x 16 mm self-tapping screw	3	–	–	3	3
Screw set					
5 x 16 mm self-tapping screw	4	–	–	4	4
M4 x 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	–	–
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BASIC OPERATION

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

Display
Status Indicator   Operation buttons   Speaker
Illumination sensor

NX-3000 series

Display
Status Indicator   Operation buttons   Speaker

Microphone

PTT Switch

NX-1000 series

Display
Status Indicator   Operation buttons   Speaker
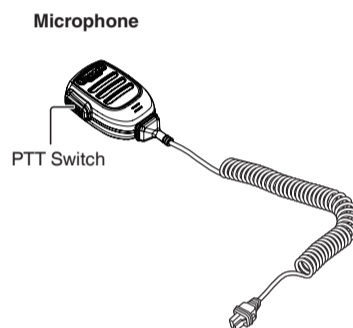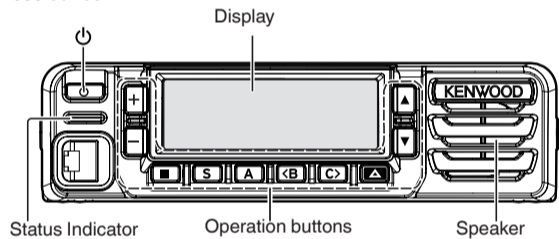
SWITCHING POWER ON/OFF

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.

INFORMATION ON SOFTWARE LICENSE

This transceiver uses a software according to the following license agreements. (NX-5000/ NX-3000/ NX-1000 series)

*zlib LICENSE (NX-5000/ NX-3000 series)

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A "png_get_copyright" function is available, for convenient use in "about" boxes and the like:
      printf("%s",png_get_copyright(NULL));

Also, the PNG logo (in PNG format, of course) is supplied in the files "pngbar.png" and "pngbar.jpg" (88x31) and "pngnow.png" (98x31).

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*Md5 (NX-5000/ NX-3000/ NX-1000 series)

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