

KENWOOD

INSTRUCTION MANUAL
MODE D'EMPLOI
MANUAL DE INSTRUCCIONES
MANUALE DI ISTRUZIONI
BEDIENUNGSANLEITUNG
GEBRUIKSAANWIJZING
KULLANIM KILAVUZU



ProTalk TK-3301

UHF FM TRANSCEIVER
ÉMETTEUR-RÉCEPTEUR FM UHF
TRANSCÉPTOR FM UHF
RICETRASMETTITORE FM UHF
UHF-FM-TRANSCEIVER
UHF FM ZENDONTVANGER
UHF FM EL TELSİZİ

Kenwood Corporation

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ProTalk

TK-3301

UHF FM TRANSCEIVER

INSTRUCTION MANUAL

ENGLISH

NOTIFICATION

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

This equipment 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	

THANK YOU

We are grateful for your purchase of this **Kenwood** product and welcome you to the Private Mobile Radio service (PMR 446). PMR is a mobile communication system for both business and personal use without the need for a license and with no call charges.

Your **Kenwood** 2-way Private Radio is called a “transceiver”, meaning “transmitter & receiver”. We believe this easy-to-use transceiver will provide you with dependable and reliable communications. This **Kenwood** transceiver is a precision device. Treat it with care, and you will enjoy years of reliable operation.

FEATURES

- 16 channels with 8 operating frequencies and 38 tone/ code settings for each channel allows you to ignore unwanted calls.
- Built in voice scrambler gives you complete privacy for your conversations.
- Hands free operation when using an optional headset.
- Voice announcement lets you know which channel you have selected and which settings you have made when reassigning key functions and channel settings.

OPERATING CONDITIONS

Open locations (no obstructions)	Up to 6.4 km
Residential areas (near buildings)	Up to 2.4 km
In steel/ concrete reinforced buildings	Up to 18,580 m ²
In high rises	Up to 15 floors

Note: The listed ranges are based on field testing and may vary with your operating conditions and individual 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 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.

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.
- 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 (flammable 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.
- Danger of explosion if the battery is incorrectly replaced; replace only with the same type.
- 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/ 176°F)!**

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

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 charger/ AC adapter (KSC-35)..... 1
- Li-ion Battery pack (KNB-45L)..... 1
- Speaker/ microphone jack cover
- Speaker/ microphone locking bracket
- Belt clip (KBH-10)..... 1
- Screw set
 - M3 x 6 mm (Black)
 - M3 x 8 mm
- Instruction manual

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

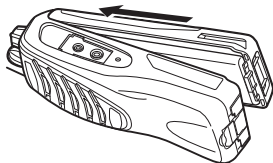
PREPARATION

INSTALLING/ REMOVING THE BATTERY PACK

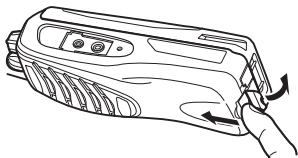


CAUTION

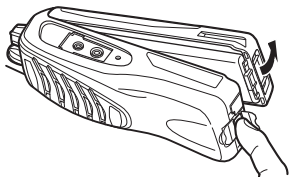
- ◆ Do not short the battery terminals or dispose of the battery by fire.
- ◆ Never attempt to remove the casing from the battery pack.



- 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.

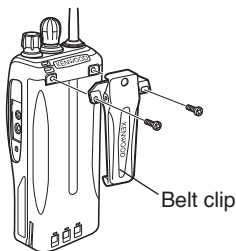


- 2 To remove the battery pack, lift the safety catch on the base of the transceiver, then press the release latch underneath the safety catch.



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

INSTALLING THE BELT CLIP



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

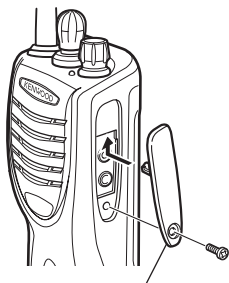
Note: If the belt clip is not installed, its mounting location may get hot during continuous transmission or when left sitting in a hot environment.



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

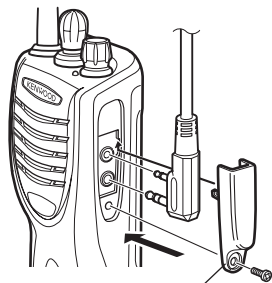


Speaker/ microphone
jack cover

If you are not using a speaker/ microphone, install the cover over the speaker/ microphone jacks using the supplied M3 x 6 mm screw.

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

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 M3 x 6 mm screw.

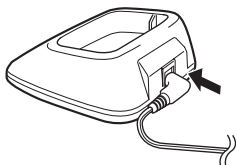
Note: The transceiver is not fully water resistant while using the speaker/ microphone.

CHARGING THE BATTERY PACK

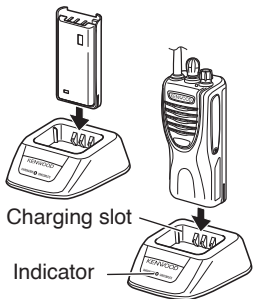
The battery pack is not charged at the factory; charge it before use.

Average battery pack life (calculated using 5% transmit time, 5% receive time, and 90% standby time) is 20 hours.

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



- 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.

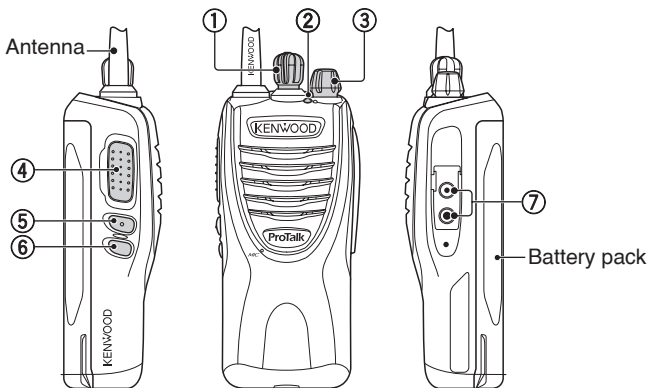


- 3 Slide a battery pack or a transceiver equipped with a battery pack into the charging slot of the charger.
 - Make sure the metal contacts of the battery pack mate securely with the charger terminals.
 - The indicator lights red and charging begins.
- 4 When charging is completed, the indicator lights 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.

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.
-

ORIENTATION



① Channel selector

Rotate to change the operating channel.

- To change the operating frequency or QT/DQT settings of a channel, refer to “CHANNEL SETUP” on page 11.
- **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 7.

③ Power switch/ Volume control

Turn clockwise to switch the transceiver ON. To switch the transceiver OFF, 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**

Press to activate its programmable function.

The default setting is **Calling Alert**.

- For function descriptions and details on how to change the function of the **Side 1** key, refer to “KEY ASSIGNMENT MODE” on page 17.

⑥ **Side 2 key**

Press to activate its programmable function.

The default setting is **Squelch Off Momentary**.

- For function descriptions and details on how to change the function of the **Side 2** key, refer to “KEY ASSIGNMENT MODE” on page 17.

⑦ **Speaker/ microphone jacks**

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

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 red/orange	The selected channel has not been programmed and cannot be used.

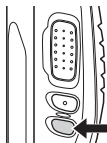
BASIC OPERATIONS

- 1 Turn the **Power** switch/ **Volume** control clockwise to switch the transceiver power ON.

- A beep sounds if enabled by your dealer.

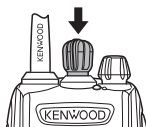


- 2 Press the key programmed with the **Monitor** or **Squelch Off (Side 2 key default)** function to hear background noise, then rotate the **Power** switch/ **Volume** control to adjust the volume.



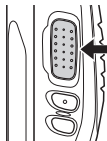
- 3 Rotate the **Channel** selector to select your desired channel.

- 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 (1.5 inches) from your lips.



- 5 Release the **PTT** switch to receive.

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

VOICE OPERATED TRANSMISSION (VOX)

VOX operation allows you to transmit hands-free. VOX can only be used if you are using a supported headset. This function can be turned off for specific channels by your dealer.

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 turn orange.
 - When the **Side 1** key is released, the transceiver will announce 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 level can be adjusted from level 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 then ON again to activate VOX.

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.

BACKGROUND OPERATIONS

TIME-OUT TIMER (TOT)

The Time-out Timer prevent 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 5 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.

CHANNEL ANNUNCIATION

When changing the channel, the transceiver will announce the newly selected channel number. Likewise, the transceiver will announce the current channel after you turn the transceiver power ON. (Channel Annunciation can be activated or deactivated by your dealer.)

CHANNEL SETUP MODE

This transceiver allows you to reprogram each of the channels with different frequencies and QT (Quiet Talk)/ DQT (Digital Quiet Talk) settings. The table below lists the default channel settings.

Channel Number	Table Number	Frequency (MHz)	Tone Number	QT/DQT Setting
1	1	446.00625	10	94.8 Hz
2	8	446.09375	08	88.5 Hz
3	3	446.03125	13	103.5 Hz
4	6	446.06875	05	79.7 Hz
5	4	446.04375	17	118.8 Hz
6	2	446.01875	18	123.0 Hz
7	7	446.08125	19	127.3 Hz
8	5	446.05625	07	85.4 Hz
9	1	446.00625	14	107.2 Hz
10	8	446.09375	15	110.9 Hz
11	3	446.03125	16	114.8 Hz
12	6	446.06875	06	82.5 Hz
13	4	446.04375	27	D132N
14	2	446.01875	28	D155N
15	5	446.05625	29	D134N
16	7	446.08125	30	D243N

Note: You must first select an operating frequency for a channel before you can select a QT/ DQT setting for that same channel.

CHANNEL OPERATING FREQUENCIES

To change the operating frequency of a channel:

- 1 With the transceiver power OFF, press and hold the **PTT** switch and **Side 1** key while turning the transceiver power ON.
 - Continue to hold the **PTT** switch and **Side 1** key until the LED lights orange and the transceiver announces “Self”.
- 2 Release the **PTT** switch and **Side 1** key.
 - The transceiver announces “Channel”.
- 3 Press and release the **PTT** switch, then rotate the **Channel** selector to your desired channel.
 - Upon pressing and releasing the **PTT** switch, a beep will sound and the transceiver announces “Table zero”.
- 4 Press the **Side 1** or **Side 2** key to increment/ decrement the Table number, to select the new channel frequency.
 - Table numbers and their corresponding operating frequencies are provided in the table on page 13.
 - A voice announcement will inform you of the currently selected Table number.
- 5 Press the **PTT** switch within 5 seconds to save the setting, otherwise the operation will cancel.
 - A beep will sound.
 - Repeat steps 3 to 5 to set up another channel.
- 6 Turn the transceiver power OFF and then ON again to activate the new settings.

Note: The transceiver will automatically return to normal operation if no action is performed for 5 seconds.

Table Number	Operating Frequency	Table Number	Operating Frequency
0	OFF		
1	446.00625 MHz	5	446.05625 MHz
2	446.01875 MHz	6	446.06875 MHz
3	446.03125 MHz	7	446.08125 MHz
4	446.04375 MHz	8	446.09375 MHz

QT/ DQT SETTINGS

Quiet Talk (QT) and Digital Quiet Talk (DQT) are functions that reject undesired signals on your channel. You will hear a call only when you receive a signal that contains a matching QT tone or DQT code. If a call containing a different tone or code is received, squelch will not open and you will not hear the call. Likewise, when transmitting using QT or DQT, the receiving station must have a matching tone or code to hear your call.

Be aware that other parties can still hear your calls if they set up their transceiver with the same tone or code.

The default QT/DQT settings for each channel are provided in the table on page 15.

To change the QT/DQT settings of a channel:

- 1 With the transceiver power OFF, press and hold the **PTT** switch and **Side 1** key while turning the transceiver power ON.
 - Continue to hold the **PTT** switch and **Side 1** key until the LED lights orange and the transceiver announces "Self".
- 2 Release the **PTT** switch and **Side 1** key.
 - The transceiver announces "Channel".
- 3 Press the **Side 1** or **Side 2** key to select QT/DQT setup.
 - The transceiver announces "Tone".

- 4 Press and release the **PTT** switch, then rotate the **Channel** selector to your desired channel.
 - Upon pressing and releasing the **PTT** switch, a beep will sound and the transceiver announces “Tone one”.
- 5 Press the **Side 1** or **Side 2** key to increment/ decrement the Tone number, to select the new tone or code.
 - QT/DQT table numbers and their corresponding tones/ codes are provided in the table on page 15.
 - Press and hold the **Side 1** or **Side 2** key to increment/ decrement the Tone number by 5 at a time.
 - A voice announcement will inform you of the currently selected Tone number.
- 6 Press the **PTT** switch within 5 seconds to save the setting, otherwise the operation will cancel.
 - A beep will sound.
 - Repeat steps 4 to 6 to set up another channel.
- 7 Turn the transceiver power OFF and then ON again to activate the new settings.

Note: The transceiver will automatically return to normal operation if no action is performed for 5 seconds.

Tone Number	QT/DQT Setting	Tone Number	QT/DQT Setting	Tone Number	QT/DQT Setting
1	67.0 Hz	14	107.2 Hz	27	D132N
2	71.9 Hz	15	110.9 Hz	28	D155N
3	74.4 Hz	16	114.8 Hz	29	D134N
4	77.0 Hz	17	118.8 Hz	30	D243N
5	79.7 Hz	18	123.0 Hz	31	D311N
6	82.5 Hz	19	127.3 Hz	32	D346N
7	85.4 Hz	20	131.8 Hz	33	D315N
8	88.5 Hz	21	136.5 Hz	34	D351N
9	91.5 Hz	22	141.3 Hz	35	D423N
10	94.8 Hz	23	146.2 Hz	36	D664N
11	97.4 Hz	24	151.4 Hz	37	D431N
12	100.0 Hz	25	156.7 Hz	38	D723N
13	103.5 Hz	26	162.2 Hz	Off	OFF

Note: The Tone numbers corresponding to the QT/DQT values can be changed by your dealer.

CHANNEL CONFIRMATION MODE

To confirm your channel settings:

- 1 With the transceiver power OFF, press and hold the **PTT** switch while turning the transceiver power ON.
 - Continue to hold the **PTT** switch until the LED lights orange and the transceiver announces “Confirm”.
- 2 Release the **PTT** switch.
 - The transceiver announces the channel table number and Tone number of the selected channel.
- 3 Rotate the **Channel** selector to your desired channel within 5 seconds, otherwise the operation will cancel.
 - The transceiver announces the channel table number and Tone number of the current channel.

Note: The transceiver will automatically return to normal operation if no action is performed for 5 seconds.

KEY ASSIGNMENT MODE

This transceiver allows you to reprogram the **Side 1** and **Side 2** keys with any of the functions listed in the table below. Explanations on the use of each function are provided under “PROGRAMMABLE FUNCTIONS”, on page 19.

Table Number	Function Name
0	None (no function)
1	Calling Alert (Side 1 key default)
2	Key Lock
3	Key Lock Status Memory
4	Monitor
5	Monitor Momentary
6	Scan
7	Scan + Temporary Delete
8	Scrambler
9	Squelch Off
10	Squelch Off Momentary (Side 2 key default)
11	Temporary Delete

Note: The transceiver will automatically return to normal operation if no action is performed for 5 seconds.

To change the functions of the **Side 1** and **Side 2** keys:

- 1** With the transceiver power OFF, press and hold the **Side 1** and **Side 2** keys while turning the transceiver power ON.
 - Continue to hold the Side 1 and Side 2 keys until the LED lights orange and the transceiver announces “Setup”.
- 2** Continue to press and hold the key to be reprogrammed (either the **Side 1** or **Side 2** key), while releasing the remaining key.
 - The transceiver will announce “Table zero”.
 - If you continue to hold both keys, or if you release both keys, the operation will cancel in 5 seconds.
- 3** Release the key.
- 4** Press the **Side 1** or **Side 2** key to increment/ decrement the number, to select the new key function.
 - Table numbers and their corresponding functions are provided in the table on page 17.
 - A voice announcement will inform you of the currently selected Table number.
- 5** Press the **PTT** switch within 5 seconds to save the setting, otherwise the operation will cancel.
 - A beep will sound and the transceiver will announce the new Table number.
- 6** Turn the transceiver power OFF and then ON again to activate the new settings.

PROGRAMMABLE FUNCTIONS

■ **Calling Alert (Side 1 key default)**

Calling alert tones help identify yourself to party members and inform them that you are calling. Your dealer can set up your transceiver with 1 of 10 calling alert tones. If each party member uses a different tone, it is easy to know who is calling. To make a call, press and hold the PTT switch, then press the key programmed as Calling Alert.

- Release the key to end the tone.

■ **Key Lock**

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

The following keys/ functions can still be used when Key Lock is active:

Calling Alert, Key Lock, Monitor, Monitor Momentary, PTT, Squelch Off, Squelch Off Momentary, and Volume.

■ **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.

■ **Monitor**

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

■ **Monitor Momentary**

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

■ Scan

Press this key to start scanning the transceiver channels.

Priority Scan: The Priority channel is a channel that is given first priority to while scanning. The Priority channel is set by your dealer.

Revert Channel: During Scan, pressing the PTT switch will automatically select the transceiver's Revert channel and you will begin transmitting. Your dealer can program the Revert channel using one of the following methods:

- Selected
- Selected + Talkback
- Priority
- Priority + Talkback

■ 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 the Scrambler function is activated, any other party that is listening to 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 (Side 2 key default)

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

■ 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.

TROUBLESHOOTING GUIDE

Problem	Solution
Cannot turn the transceiver power ON.	<ul style="list-style-type: none">• The battery pack may be dead. Recharge or replace the battery pack.• The battery pack may not be installed correctly. Remove the battery pack and install again.
Battery power dies shortly after charging.	<ul style="list-style-type: none">• The battery pack life is finished. Replace the battery pack with a new one.
Cannot talk to or hear other members in your group.	<ul style="list-style-type: none">• Make sure you are using the same frequency and QT/DQT settings as the other members in your group.• Other group members may be using the Scrambler function. Turn on your transceiver's Scrambler.• Other group members may be too far away. Make sure you are within range of the other transceivers.
Other voices (besides group members") are present on the channel.	<ul style="list-style-type: none">• Change the QT/DQT settings. Make sure all group members change the settings on their transceivers to match the new QT/DQT setting.

OPTIONAL ACCESSORIES

- KMC-17 (Speaker/ microphone)
- KMC-21 (Speaker/ microphone)
- KHS-1 (Headset)
- KHS-21 (Headset)
- KNB-45L (Li-ion battery pack)
- KSC-35 (Rapid charger)
- KSC-356 (Multiple charger)
- KBH-10 (Belt clip)
- KWR-1 (Water resistant bag)

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