


## LOCK FUNCTION

### KEY LOCK

You can lock the **MENU**, ▲, and ▼ keys to prevent accidentally changing the operating mode and channel settings. The **Power** switch/ **Volume** control and **PTT**, **CALL\***, and **MON** still function normally.

\* The **CALL** key functions normally only if it has been set up as Call Alert {page 33}.

Press and hold the **MENU** key for 3 seconds to lock or unlock the transceiver keys.


- The  icon appears on the display when the transceiver keys are locked. No icon appears when they are unlocked.

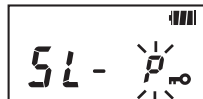
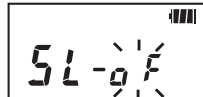


### SUPER LOCK

You can lock the **MENU**, **CALL**, ▲, and/or ▼ keys, and disable the Setting Mode. The **Power** switch/ **Volume** control, **PTT** and **MON** still function normally.

To select the super lock setting:

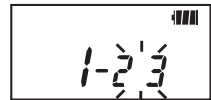
- With the transceiver power OFF, press and hold the **PTT** switch and the **CALL** key while turning the transceiver power ON (for 1 second).
- Press the ▲ or ▼ key to select “5L- P” (**MENU**, **CALL**, ▲, and ▼ keys locked), “5L- L” (**MENU** and **CALL** keys locked), or “5L- F” (super lock off).
- Press the **MENU**, **PTT**, **MON**, or **CALL** key to exit Super Lock Setting Mode.
  - The  icon appears on the display when the transceiver keys are locked. No icon appears when they are unlocked.



## SETTING MODE

Many functions on this transceiver are selected or configured through the Menu instead of physical controls.

- With the transceiver power OFF, press and hold the **MENU** key while turning the transceiver power ON (for 1 second).
- Press the ▲ or ▼ key to select your desired Setting menu.
- Press the **MENU** key then press ▲ or ▼ to select your desired value for the Setting menu.
- Press the **MENU** key to exit the selection.
- Press the **PTT**, **MON**, or **CALL** key to exit Setting Mode.



### Setting Menu

Display	Name	Settings	Default	Ref. Pg
1	Channel 1 Frequency Setting	01 ~ 99	02	27
2	Channel 2 Frequency Setting	01 ~ 99	08	27
3	Channel 3 Frequency Setting	01 ~ 99	05	27
4	Channel 4 Frequency Setting	01 ~ 99	06	27
5	Channel 5 Frequency Setting	01 ~ 99	09	27
6	Channel 6 Frequency Setting	01 ~ 99	10	27
[ L	Incoming Call Notification	OFF/ ON (Tone)	OFF	39
[ L	Call Key	CA (Call Alert)/ OFF	CA	33
[ R <sup>2</sup>	Call Alert Tone	Type 1 ~ 10	1	33
[ 5	Call Alert Side Tone	OFF/ ON	ON	34
r t	Mode Reset Timer	OFF/10/30 sec	10	40

Display	Name	Settings	Default	Ref. Pg
<i>t o</i>	Time-out Timer	3/ 10 min	3 min	36
<i>b l</i>	Busy Channel Lockout	OFF/ ON	OFF	39
<i>l t</i>	Backlight	OFF/ ON/ A (Auto)	Auto	35
<i>b t</i>	Battery Level Indicator	OFF/ ON	ON	38
<i>b s</i>	Battery Saver	OFF/ ON	OFF	37
<i>b P</i>	Beep Tone	OFF/ ON	ON	40
<i>s f</i>	Scan Function	OFF/ ON	OFF	28
<i>s q</i>	Squelch Level	0/ 1/ 2	1	29
<i>s E</i>	Mic Sense	no (Normal)/ HI (High)	Normal	35
<i>u l</i>	VOX Gain Level	OFF/ 1 ~ 5	OFF	30
<i>d y</i> <sup>1</sup>	VOX Delay Time	0.1/ 0.3/ 0.5/ 1.0/ 1.5/ 3.0 sec	1.0 sec	31
<i>t i</i> <sup>1</sup>	Transmit Inhibit while Receiving	OFF/ ON	OFF	31
<i>P d</i> <sup>1</sup>	VOX Proceed Tone	OFF/ ON	OFF	32
<i>P o</i>	Selectable Power ON Tone	Type 1 ~ 3	Type 1	41

<sup>1</sup> Menus *d y*, *t i*, and *P d* are not available if the *u l* menu is set to OFF.

<sup>2</sup> Menu *l R* is not available if the *l l* menu is set to OFF.

## CHANNEL FREQUENCY SETUP

You can change the default frequency of each channel.

- Enter the Setting Mode {page 25}.
- Press the ▲ or ▼ key to select a channel.
  - The current frequency table number appears beside the channel number.
- Press the **MENU** key then press ▲ or ▼ to select the frequency table number for the channel.
- Press the **MENU** key to exit the selection, then repeat steps 2 and 3 to set additional channels.

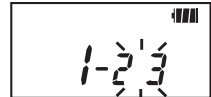


Table No.	Frq. (MHz)	Table No.	Frq. (MHz)	Table No.	Frq. (MHz)	Table No.	Frq. (MHz)
1	464.5000	26	462.8375	51	467.8875	76	452.7625
2 (CH 1)	464.5500	27	462.8625	52	467.9125	77	452.8625
3	467.7625	28	462.8875	53	469.4875	78	456.1875
4	467.8125	29	462.9125	54	469.5125	79	456.2375
5 (CH 3)	467.8500	30	464.4875	55	469.5375	80	456.2875
6 (CH 4)	467.8750	31	464.5125	56	469.5625	81	468.2125
7	467.9000	32	464.5375	57	462.1875	82	468.2625
8 (CH 2)	467.9250	33	464.5625	58	462.4625	83	468.3125
9 (CH 5)	461.0375	34	466.0375	59	462.4875	84	468.3625
10 (CH 6)	461.0625	35	466.0625	60	462.5125	85	468.4125
11	461.0875	36	466.0875	61	467.1875	86	468.4625
12	461.1125	37	466.1125	62	467.4625	87	468.5125
13	461.1375	38	466.1375	63	467.4875	88	468.5625
14	461.1625	39	466.1625	64	467.5125	89	468.6125
15	461.1875	40	466.1875	65	451.1875	90	468.6625
16	461.2125	41	466.2125	66	451.2375	91	456.3375
17	461.2375	42	466.2375	67	451.2875	92	456.4375
18	461.2625	43	466.2625	68	451.3375	93	456.5375
19	461.2875	44	466.2875	69	451.4375	94	456.6375
20	461.3125	45	466.3125	70	451.5375	95	457.3125
21	461.3375	46	466.3375	71	451.6375	96	457.4125
22	461.3625	47	466.3625	72	452.3125	97	457.5125
23	462.7625	48	467.7875	73	452.5375	98	457.7625
24	462.7875	49	467.8375	74	452.4125	99	457.8625
25	462.8125	50	467.8625	75	452.5125		

- The marked CH numbers are the default channel settings.

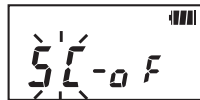
## SCAN

Scan is useful for monitoring signals on the transceiver channels. When scanning, the transceiver checks for a signal on each channel and only stops if a signal is present.

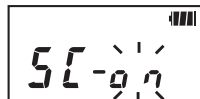
If the QT/DQT matches, the transceiver stops at the channel and opens the squelch so you can listen to the call. If the QT/DQT does not match, the call is ignored and scanning continues.

Before you can use the scan function, ensure that it is activated. You can turn the scan function (the ability to perform scan) ON or OFF in Setting Mode.

- Enter the Setting Mode {page 25}.
- Press the ▲ or ▼ key to select “5ℓ”.



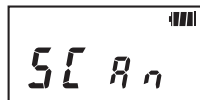
- Press the **MENU** key then press ▲ or ▼ to select “5ℓ-0 F” (scan function disabled) or “5ℓ-0 n” (scan function enabled).



- If you select “5ℓ-0 F”, you will no longer be able to perform scan by pressing and holding the ▲ key.

To begin scanning:

- Press and hold the ▲ key for 1 second.
  - “5ℓ R n” appears on the display.



- When a signal is detected and the QT/ DQT matches, the channel number appears on the display and blinks.
- When the signal is no longer present, the transceiver waits for 5 seconds before scanning continues.
  - If a new signal appears before the 5 seconds elapse, the transceiver will remain on the channel until the new signal is no longer present, at which time it will again wait for 5 seconds before continuing.

- To end the scan at any time, press and hold the ▲ key for 1 second.
  - The transceiver returns to the channel you were using before you started scanning.

## REVERT CHANNEL

The revert channel is the channel from which you start scanning. So, for example, if you are on channel 1 when you begin to scan, your revert channel is channel 1.

During scan, pressing the **PTT** switch will automatically select the transceiver’s revert channel (in the above example, channel 1) and you will begin transmitting. However, if you are currently paused on another channel after having received a signal (for example, channel 2), pressing the **PTT** switch will allow you to transmit on that channel, rather than returning to the revert channel. Scanning will resume after 5 seconds, unless a signal is present on the channel.

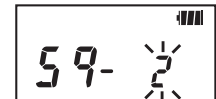
## SQUELCH LEVEL

You can adjust the default squelch level of the transceiver.

- Enter the Setting Mode {page 25}.
- Press the ▲ or ▼ key to select “59”.



- Press the **MENU** key then press ▲ or ▼ to select “59- 0” (open), “59- 1” (default setting), or “59- 2” (tight).



## VOICE OPERATED TRANSMISSION (VOX)

Using the VOX feature, you can operate the transceiver hands-free. In order to use this feature, however, you must use an optional headset; VOX will not function with the built-in microphone. For best operation conditions, we recommend you use an optional headset with both an ear piece and a microphone on a boom that rests in front of your mouth.

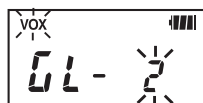
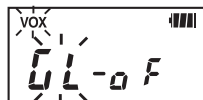
### VOX OPERATION

- 1 Set up a VOX gain level from 1 to 5 {below}.
- 2 To transmit, speak into the headset microphone.
  - You do not need to press the **PTT** switch; the transceiver automatically detects your voice and begins transmitting. The LED lights red.
- 3 To stop transmitting, stop speaking.
  - Transmission will continue momentarily after you stop speaking. You can select the delay time as described on page 30.
- 4 To exit VOX mode, set the VOX gain level {below} to “**UL-0F**” (VOX function off).

### VOX GAIN LEVEL

With VOX activated, your voice level will determine when you transmit. Due to the automatic switching between transmission and reception, we recommend you set the VOX gain level such that it will not activate when in an area with excessive ambient noise.

- 1 Enter the Setting Mode {page 25}.
- 2 Press the ▲ or ▼ key to select “**UL**”.
- 3 Press the **MENU** key then press ▲ or ▼ to select “**UL-0F**” (VOX function off) or “**UL-1**” (VOX gain level 1) to “**UL-5**” (VOX gain level 5).

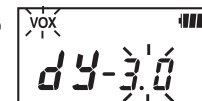
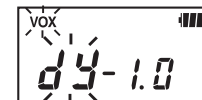


- While adjusting the VOX Gain level, speak into the microphone. When an appropriate level is reached, the LED lights orange.
- Setting the VOX gain level to OFF deactivates VOX. In order to transmit with VOX turned off, you must use the **PTT** switch.

### VOX DELAY TIME

If the transceiver returns to receive mode too quickly after you stop speaking, the end of your message may not be transmitted. To avoid this, select an appropriate delay time that allows your entire message to be transmitted. However, do not make the delay overly long.

- 1 Enter the Setting Mode {page 25}.
- 2 Press the ▲ or ▼ key to select “**dY**”.
- 3 Press the **MENU** key then press ▲ or ▼ to select “**dY-0.1**” (0.1 sec.), “**dY-0.3**” (0.3 sec.), “**dY-0.5**” (0.5 sec.), “**dY-1.0**” (1 sec.), “**dY-1.5**” (1.5 sec.), or “**dY-3.0**” (3 sec.).

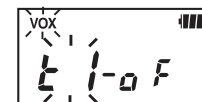


- While adjusting the VOX Delay Time, speak into the microphone to simulate transmitting. The LED lights orange while speaking, but no signal is transmitted at this time.

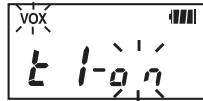
### TRANSMIT INHIBIT WHILE RECEIVING

While using VOX, you can set the transceiver to detect when the channel is in use (in place of using the Monitor function). With this function turned on, VOX will not allow you to transmit while the channel is being used. You can transmit only when the channel is free. Setting up the proceed tone function {page 32} will notify you when the channel is free.

- 1 Enter the Setting Mode {page 25}.
- 2 Press the ▲ or ▼ key to select “**t 1**”.



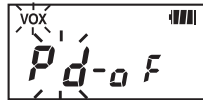
- 3 Press the **MENU** key then press ▲ or ▼ to select “*t l-o n*” (transmit inhibit while receiving on) or “*t l-o F*” (transmit inhibit while receiving off).



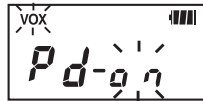
### VOX PROCEED TONE

You can set the transceiver to sound an alert tone when you are able to transmit (transmission is no longer inhibited).

- 1 Enter the Setting Mode {page 25}.
- 2 Press the ▲ or ▼ key to select “*P d*”.



- 3 Press the **MENU** key then press ▲ or ▼ to select “*P d-o n*” (VOX proceed tone on) or “*P d-o F*” (VOX proceed tone off).



- You can speak into the microphone at this time to simulate transmitting. The LED lights orange while speaking if your voice is at an appropriate level, but no signal is transmitted at this time.

## CALL KEY FUNCTION

### CALL KEY SETUP

You can set up the transceiver **CALL** key to perform Call Alert function, or you can turn the **CALL** key off (unused):

**Call Alert:** Pressing the **CALL** key before making a call will send your call alert tone to your party members, identifying yourself before speaking.

### CALL ALERT TONE

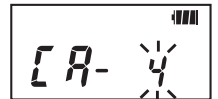
Call alert tones are used to identify yourself to your party members. You can set up a call alert tone to one of 10 types. If each party member uses a different call alert tone, it is easy to know who is making the call. Pressing the **CALL** key before making a call will send your call alert tone to your party members.

To set up your own call alert tone:

- 1 Enter the Setting Mode {page 25}.
- 2 Press the ▲ or ▼ key to select “*CR*”.



- 3 Press the **MENU** key then press ▲ or ▼ to select “*CR- 1*” (call alert tone 1) to “*CR- 10*” (call alert tone 10).



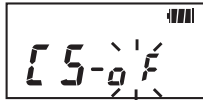
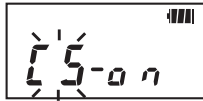
- Each time you press ▲ or ▼ to select a call alert tone, the new tone sounds.

## CALL ALERT SIDE TONE

When the **CALL** key is pressed, the call alert tone will sound through your own speaker as well.

To turn the Call Alert Side Tone on or off, on your own transceiver:

- 1 Enter the Setting Mode {page 25}.
- 2 Press the ▲ or ▼ key to select “**LS**”.
- 3 Press the **MENU** key then press ▲ or ▼ to select “**LS-on**” (Call Alert Side Tone is on) or “**LS-off**” (Call Alert Side Tone is off).



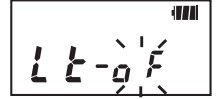
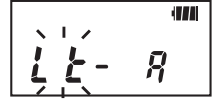
## BACKGROUND OPERATIONS

### DISPLAY BACKLIGHT

You can set the display backlight to remain off, remain on, or turn on when you press any key other than the **PTT** switch (auto). When set to auto, the backlight remains on for 5 seconds after pressing a key, before turning off again.

To select the backlight setting:

- 1 Enter the Setting Mode {page 25}.
- 2 Press the ▲ or ▼ key to select “**Lt**”.
- 3 Press the **MENU** key then press ▲ or ▼ to select “**Lt-off**” (backlight off), “**Lt-on**” (backlight on), or “**Lt-A**” (backlight auto).

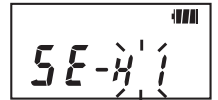
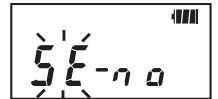


### MIC SENSE

You can adjust the sensitivity level of the transceiver microphone.

To select the mic sense:

- 1 Enter the Setting Mode {page 25}.
- 2 Press the ▲ or ▼ key to select “**SE**”.
- 3 Press the **MENU** key then press ▲ or ▼ to select “**SE-normal**” (normal) or “**SE-H**” (high).





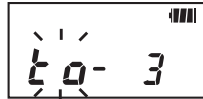
## TIME-OUT TIMER

The Time-out Timer prevents you from using a channel for an extended duration. This function is useful, for example, when you accidentally keep the **PTT** switch pressed. Additionally, by limiting the amount of time you can continuously transmit, this feature helps you save on battery power consumption.

If you continuously transmit for 3 minutes (default value), 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.

To change the default value of 3 minutes:

- 1 Enter the Setting Mode {page 25}.
- 2 Press the ▲ or ▼ key to select “t o”.



- 3 Press the **MENU** key then press ▲ or ▼ to select “t o- 3” (3 minutes) or “t o- 10” (10 minutes).



This transceiver is also equipped with a pre-alert tone which sounds 10 seconds before the Time-out Timer expires. This will allow you time to finish your message before the transceiver automatically stops transmitting.

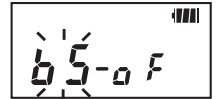
## BATTERY SAVER

This transceiver has been designed to give you the most out of your battery power. The battery saver function decreases the amount of power used when a signal is not being received and no operations are being performed.

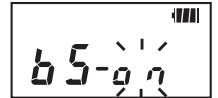
While using the transceiver, battery saver will automatically switch ON after 5 seconds have elapsed with no operations or received calls. Operating the transceiver or receiving a call will switch this feature OFF until 5 seconds of non-operation occurs again.

To turn this function on or off:

- 1 Enter the Setting Mode {page 25}.
- 2 Press the ▲ or ▼ key to select “b s”.



- 3 Press the **MENU** key then press ▲ or ▼ to select “b s-o n” (battery saver on) or “b s-o F” (battery saver 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.

## BATTERY LEVEL INDICATOR

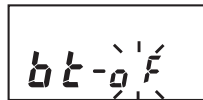
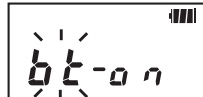
When turned ON, the battery level indicator on the display lets you know approximately how much battery life is remaining. When turned OFF, the battery level indicator will not be displayed.

When the battery voltage becomes too low while transmitting, the transceiver stops transmitting, a tone sounds, and the LED blinks red until you release the **PTT** switch. Recharge or replace the battery pack at this time.

-  High battery power
-  Medium battery power
-  Low battery power
-  Recharge the battery pack

To turn this function on or off:

- 1 Enter the Setting Mode {page 25}.
- 2 Press the ▲ or ▼ key to select “*b t*”.
- 3 Press the MENU key then press ▲ or ▼ to select “*b t - o n*” (battery level indicator on) or “*b t - o f*” (battery level indicator off).



## INCOMING CALL NOTIFICATION

### Note:

- ◆ To use Incoming Call Notification, you must set up a QT tone or a DQT code {page 19}.

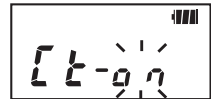
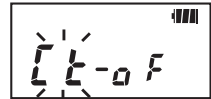
Incoming Call Notification is used to inform you of when a call is being received. When activated, a tone is emitted when a busy signal is received and the QT/ DQT signaling matches.

- The tone will sound for 15 seconds before turning off.
- While the tone sounds, you will not hear any audio from the speaker. Press any key to turn the tone off and listen to the received call.

After the call is finished, the transceiver will wait for 10 seconds before resetting. If you receive a new call within those 10 seconds, the tone will not sound. If no call is received within 10 seconds, Incoming Call Notification will reset so that the next time a call is received, the tone will sound again.

To turn Incoming Call Notification on or off:

- 1 Enter the Setting Mode {page 25}.
- 2 Press the ▲ or ▼ key to select “*ic*”.
- 3 Press the MENU key then press ▲ or ▼ to select “*ic - o f*” (incoming call notification off), or “*ic - o n*” (incoming call notification on).

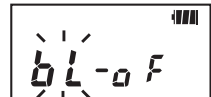


## BUSY CHANNEL LOCKOUT (BCL)

This function is used in order to prevent transmitting on a channel that somebody else is currently using. When turned ON, a beep sounds when you press the **PTT** switch while another party is using the channel, and you cannot transmit.

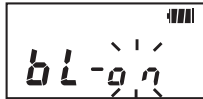
To turn BCL on or off:

- 1 Enter the Setting Mode {page 25}.
- 2 Press the ▲ or ▼ key to select “*b l*”.





- 3 Press the **MENU** key then press ▲ or ▼ to select “bL-a n” (BCL on) or “bL-a f” (BCL off).

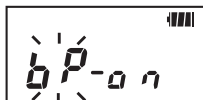


### BEEP TONE

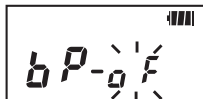
When you press a key, a beep will emit from the transceiver.

To turn the beep tone on or off:

- 1 Enter the Setting Mode {page 25}.
- 2 Press the ▲ or ▼ key to select “bP”.



- 3 Press the **MENU** key then press ▲ or ▼ to select “bP-a n” (beep tone on) or “bP-a f” (beep tone off).

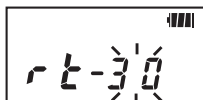
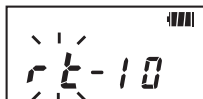


### MODE RESET TIMER

This function returns the transceiver to the channel display after a preset timer expires while in Setting mode.

To set the mode reset timer:

- 1 Enter the Setting Mode {page 25}.
- 2 Press the ▲ or ▼ key to select “rE”.
- 3 Press the **MENU** key then press ▲ or ▼ to select “rE-a f” (timer off), “rE-10” (10 seconds), “rE-30” (30 seconds).

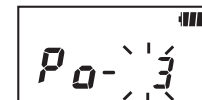


### SELECTABLE POWER ON TONE

You can set up a tone to sound during power on to one of 3 types.

To set the power on tone type:

- 1 Enter the Setting Mode {page 25}.
- 2 Press the ▲ or ▼ key to select “P0”.
- 3 Press the **MENU** key then press ▲ or ▼ to select “P0- 1” (type 1), “P0- 2” (type 2), “P0- 3” (type 3).

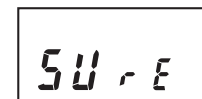
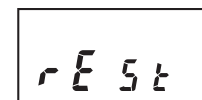


### RESETTING THE TRANSCEIVER

At some point in time, you may desire to reset the transceiver settings to their default values. (Default values are listed on pages 25 ~ 26.)

To reset the transceiver:

- 1 With the transceiver power OFF, press and hold the ▲, ▼, and **MON** keys while turning the transceiver power ON.
  - “rE 5t” (reset) will appear on the display.
- 2 Release the ▲, ▼, and **MON** keys.
  - The confirmation message “SU rE” (sure) will appear on the display.
- 3 Press the **PTT** switch to reset the transceiver.
  - Press any other key to cancel the reset.



#### Note:

- ◆ Reset will function even if Super Lock has been activated.

## TROUBLESHOOTING GUIDE

Problem	Solution
Cannot turn the transceiver power ON.	<ul style="list-style-type: none"> <li>The battery pack may be dead. Recharge or replace the battery pack.</li> <li>The battery pack may not be installed correctly. Remove the battery pack and install it again.</li> </ul>
Battery power dies shortly after charging.	<ul style="list-style-type: none"> <li>The battery pack life is finished. Replace the battery pack with a new one.</li> </ul>
Cannot talk to or hear other members in your group.	<ul style="list-style-type: none"> <li>Make sure you are using the same frequency and QT/DQT setting as the other group members.</li> <li>Other group members may be using Privacy Talk. Turn on your transceiver's Privacy Talk.</li> <li>Other group members may be too far away. Make sure you are within range of the other transceivers.</li> </ul>
Other voices (besides group members) are present on the channel.	<ul style="list-style-type: none"> <li>Change the QT/DQT settings. Make sure all group members change the settings on their transceivers to match the new QT/DQT setting.</li> </ul>
The transceiver is malfunctioning for no apparent reason.	<ul style="list-style-type: none"> <li>Reset the transceiver as described on page 41.</li> </ul>

## SPECIFICATIONS

RF output power	High	2.0 W
	Low	500 mW
Audio output power		100 mW
Frequency stability		±2.5 ppm
Operating voltage		3.6 V
Dimensions (W x D x H) (projections not included)		50 x 27 x 98 mm (1.97 x 1.06 x 3.86 in)
Weight (with KNB-81L)		140 g (4.94 oz)

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.

### **RF Exposure Compliance and Control Guidelines and Operating Instructions**

To control your exposure and ensure compliance with the occupational/controlled environment exposure limits always adhere to the following procedures.

Guidelines:

- Do not remove the RF Exposure Label from the device.
- User awareness instructions should accompany device when transferred to other users.
- Do not use this device if the operational requirements described herein are not met.

Operating Instructions:

- Transmit no more than the rated duty factor of 50% of the time. To transmit (talk), push the Push-To-Talk (PTT) button. To receive calls, release the PTT button. Transmitting 50 % of the time, or less, is important because this radio generates measurable RF energy exposure only when transmitting (in terms of measuring for standards compliance).
- Hold the radio in a vertical position in front of face with the microphone (and the other parts of the radio, including the antenna) at least one inch (2.5 cm) away from the nose. Keeping the radio at the proper distance is important because RF exposures decrease with distance from the antenna. Antenna should be kept away from eyes.
- When worn on the body, always place the radio in approved clip, holder, holster, case, or body harness for this product. Use of non-approved accessories may result in exposure levels, which exceed the occupational/controlled environment RF exposure limits.
- Use only manufacturer's name approved supplied or replacement antennas, batteries, and accessories. Use of non-manufacturer-name approved antennas, batteries, and accessories may exceed the FCC RF exposure guidelines.
- For a list approved accessories please consult your local dealer for information.

# MEMO

# MEMO

## LIMITED WARRANTY ON BUSINESS RADIOS AND ACCESSORIES

JVCKENWOOD USA Corporation ("JVCKENWOOD") warrants its Business Radios and KENWOOD original accessories ("Products") purchased from an authorized KENWOOD dealer in the United States and Puerto Rico as follows:

### LENGTH OF LIMITED WARRANTY

This Limited Warranty is effective for two (2) years for analog radios / three (3) years for NX-xxx ProTalk® digital radios (except models NX-P500 which has a two (2) year warranty) and one (1) year for KENWOOD original accessories (including rechargeable batteries), measured from the date of purchase by the first end user. KENWOOD, at its sole option, will, at no charge, either (a) repair the Product (with new and/or reconditioned parts) ; (b) replace the Product (with a new or reconditioned Product);, or (c) if the Product is not repairable or not replaceable due to availability, refund the Purchase Price of the Product during the warranty period provided the unit is returned in accordance with the conditions set forth and the Product meets the warranty conditions as stated below.

### WHO IS PROTECTED

This Warranty is enforceable only by the first end user and is not transferable to any third party. Transfer or resale of a Product will automatically terminate warranty coverage.

### WHAT IS COVERED

Except as specified below, this Limited Warranty covers all defects in material and workmanship under normal use and service for the time specified. The following are not covered by this Limited Warranty:

1. Damage, deterioration or failure resulting from:
  - A. Accident, misuse, abuse, neglect, improper handling, product modification or alteration, or failure to follow instructions contained in the Owner's Manual.
  - B. Repair or attempted repair by anyone not authorized by JVCKENWOOD.
  - C. Installation of parts or accessories that do not conform to the quality or specifications of the original parts or accessories.
2. Damage or loss occurring during shipment (claims must be presented to the carrier).
3. Any unit which is not new when sold to the first end user or upon which the serial number has been defaced, modified or removed.

### WHAT WE WILL PAY FOR AND WHAT YOU MUST PAY FOR

JVCKENWOOD will pay all labor and material expenses for Products covered by this Limited Warranty. If it is necessary to ship the Product for warranty service, you are responsible for the initial shipping charges, but we will pay the return shipping charges if the Product is repaired or replaced under this Warranty. You are responsible for any charges incurred in removing the product from the vehicle or other site of use and for reinstallation of the repaired or replaced product.

### HOW TO OBTAIN WARRANTY SERVICE

If you require warranty service, please bring the unit back to the point-of-purchase with your sales receipt or your Product may be serviced by one of the National KENWOOD Service Centers listed on our website

[https://www.kenwood.com/usa/Support/National\\_Service\\_Centers/](https://www.kenwood.com/usa/Support/National_Service_Centers/).

Whenever the Product is presented for warranty service, you must supply a sales receipt or other evidence of the date of purchase.

To Website



### EXCLUSION OF IMPLIED WARRANTIES AND DAMAGES

Unless considered unlawful or unenforceable under applicable law:

- A. ALL IMPLIED WARRANTIES WITH RESPECT TO THE PRODUCTS, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE TIME PERIODS SET FORTH ABOVE.
- B. KENWOOD'S LIABILITY UNDER THIS WARRANTY SHALL BE LIMITED TO THE REPAIR OR REPLACEMENT OF THE PRODUCT OR REFUND, AT KENWOOD'S SOLE OPTION, AND SHALL NOT INCLUDE DAMAGES OF ANY KIND, WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE.
- C. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES SO THE ABOVE LIMITATION, OR EXCLUSIONS MAY NOT APPLY TO YOU.

This Limited Warranty gives you specific legal rights and you may have other rights which vary from state to state. FAILURE TO COMPLETE AND RETURN THE PRODUCT REGISTRATION CARD OR INFORMATION FORM DOES NOT DIMINISH YOUR RIGHTS UNDER KENWOOD'S LIMITED WARRANTY.

This Limited Warranty is enforceable only in the United States of America and Puerto Rico.

If a problem develops during or after the Limited Warranty Period, or if you have any questions regarding the operation of the product, contact your KENWOOD Authorized Dealer or Authorized Service Center. If your problem or question is not handled to your satisfaction, please contact our Customer Relations Department at the address listed below.

For customers outside the U.S.A. who purchase this product, please contact your local Authorized Dealer.