PLL Radio/Pro-Amp/Bluetooth/Walkie Talkie with AUX Jack in Headset as Hearing Protector

Before operating this unit, please read this Manual carefully.

LOCATIONS OF CONTROLS

1. **Antennas** - Antenna at both sides
2. **Microphone** - External Boom Microphone
3. **VOL +** - Walkie-Talkie (WT) and bluetooth Volume Control Up
4. **DOWN -** - Walkie-Talkie (WT) Function Selection Down
5. **MENU** - Walkie-Talkie Menu Function Button
6. **Display** - LCD Display for both sides
7. **UP +** - Walkie-Talkie (WT) Function Selection Up
8. **CALL** - Walkie-Talkie Call Button
9. **VOL -** - Walkie-Talkie (WT) and Bluetooth Volume Control Down
10. **Light** - Red Recharging LED Indicator /Green & Blue LED Bluetooth Work Indicators
11. **PTT** - Walkie-Talkie and Bluetooth Communications button
12. **TUNE +** - Radio Tune Up and Time Adjustment Button (Hour)
13. **⏻** - Main Power On and Off Button
14. **MEM +** - Memory Selector Up
15. **BAND** - AM or FM Band Selector
16. **TUNE -** - Radio Tune Down and Time Adjustment Button (Minute)
17. **MEM -** - Memory Selector Down
18. **MEM/ADJ** - Set Memory or Time Adjustment Button
19. **AUX** - External Plug-in
20. **R-VOLUME** - Volume Knob for Radio
21. **R R&H H** - Only Radio, Radio and Hunting, only Hunting Selector
22. **H-Microphones** - Hunting Microphones at both sides
23. **H-VOLUME** - Volume Knob for Hunting
24. **MIC** - Microphone Jack
25. **CHARGE** - Battery Charging Jack
26. **WT/BT** - Walkie-Talkie or Bluetooth Selector

## LCD DISPLAY FOR RADIO

A. Stereo Indicator
B. Memory Setting Indicator
C. Memory Channel Indicator
D. AM Band Indicator
E. Battery Low Indicator
F. Radio Frequency/Time Indicator
G. FM Band Indicator
H. Memory Number (1-10) Indicator
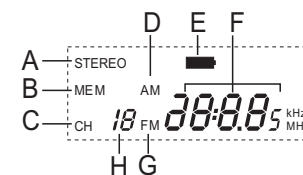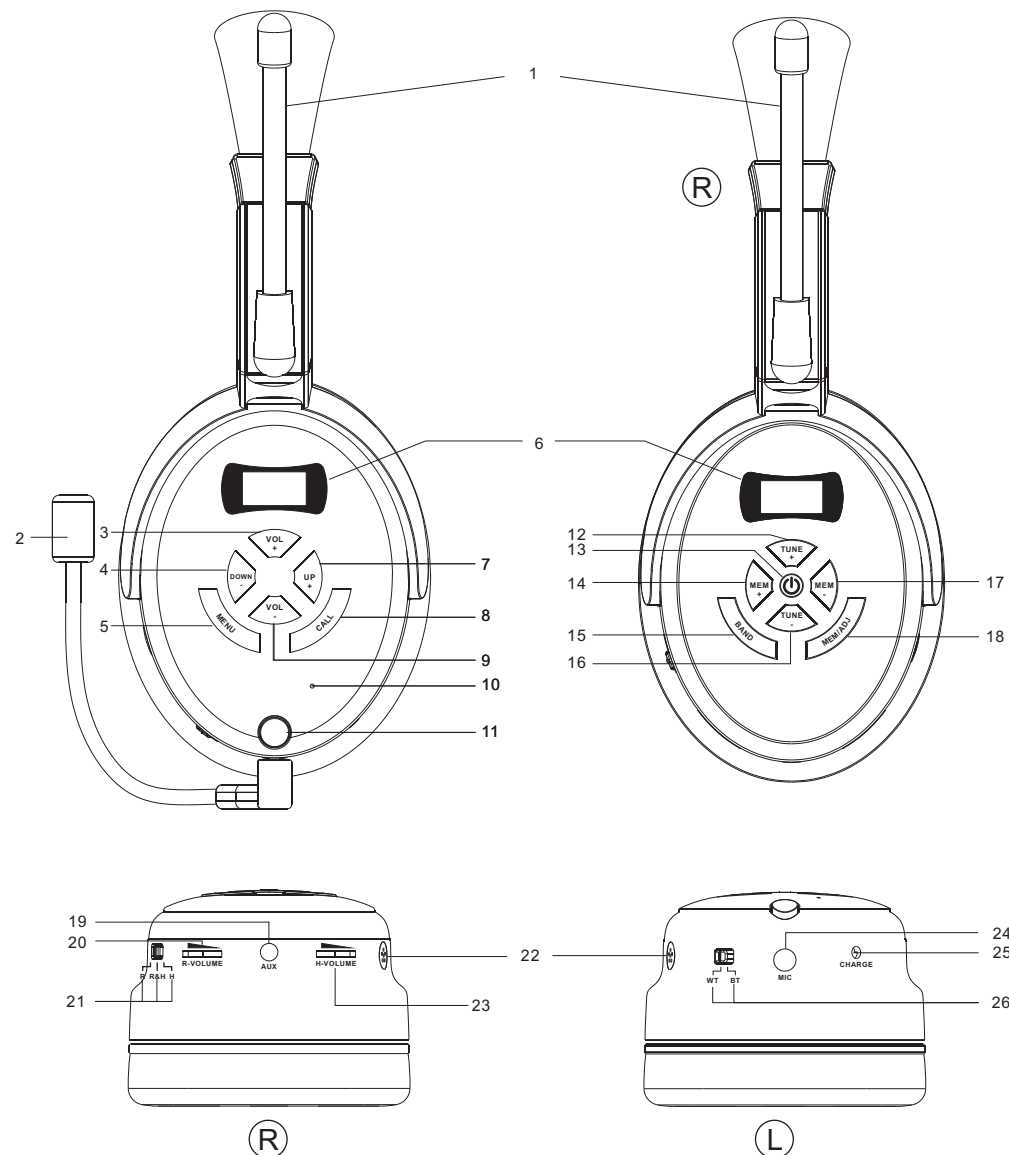
LCD DISPLAY FOR WT

J . SQL (Squelch Level) Indicator
L . Channel Indicator
M. Volume Indicator
N. Battery Low Indicator
P. Transmit and Receive Indicator
Q. CTCSS Indicator
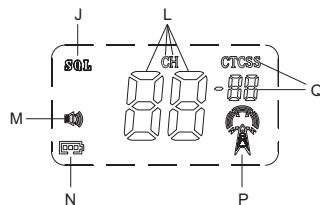
OPERATION OF THE UNIT

Battery Installation/Battery Charger Application

1. Take apart the rear cabinet (attached with the earmuff sponge) from the front earmuff cabinet of the left earmuff (ie the cabinet of which BT/WT Functions are built-in).
2. Press to open the battery door.
3. Insert the batteries with their polarities aligned correctly into the battery compartment and close the battery door. Then put the rear cabinet back to its original position.
4. If battery charger is applied, simply insert the Ni-MH type batteries into the compartment with adaptor connected to the recharging jack (25).
5. When recharging process is in progress, the LED red light (10) is on.
6. Once it is fully recharged, the LED light will automatically be turned off.
7. For prolonged use, 3 units of AAA alkaline batteries are needed. Other types of batteries may reduce the using time. When not using your unit for long periods of time, please be sure to remove the batteries from the unit to prevent battery leakage that damages the unit.
8. Dispose of batteries according to local regulations. Different kinds of batteries used, improper installation, not replace all the batteries, throw into the fire and re-charge wrong type of batteries may cause overheating. Battery leakage can cause property damage and/or bodily injury such as burns. Dispose leaking batteries in proper way.

RADIO OPERATION
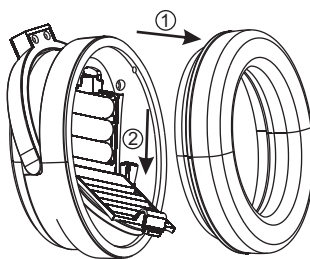
1. Turn the radio on by putting the selector (21) to the R or R&H position. Then turn on main power button and radio frequency will be shown in the display.
2. Select AM or FM by pressing the band selector (15).
3. Select your desired volume with the radio volume knob to the best position (20).
4. You can search the radio stations manually or automatically. The frequency will be increased by 0.05 MHz (for FM) or 9 kHz (for AM) by each touch. By manual search, simply press the Tune + (12)/ Tune - (16) to adjust the frequency until sound clarity is achieved which regarded as good reception. By automatic search, press and hold the Tune + (12)/Tune - (16) button for two seconds to search the station with the strongest signal, then release button, the selected stations have been locked automatically. Reset the radio stations, repeat the above steps.
5. You can store up to 20 radio stations in the headset (AM/FM max 10 stations each). Press button MEM/ADJ (18) after a radio station has been selected, MEM appears in the LCD screen. Next, press button MEM + (14)/MEM - (17) at the channel you wish to store and press MEM/ADJ (18) to confirm. To reset the number, repeat the above steps.
6. To listen to a preset station, select radio frequency (AM/FM) then press MEM + (14) to select stored radio station 1-10 or press MEM - (17) to select radio station 10-1.

TIME SETTING

1. At stand-by mode, press MEM/ADJ (18) button with time starting to blink.
2. Press TUNE + (12) to adjust hour, press TUNE - (16) to adjust minute.
3. Press MEM/ADJ (18) to confirm the time-adjusting and wait for 5 seconds to store.

PRO-AMP OPERATION

Turn the Hunting Headset on by putting the selector (21) to R&H or H position. The headset in both sides start operation. Adjust the sound level by turning the right bottom hunting volume knob (23) on the right hand side of the headset. In active status, it can receive the surrounding sound. If sound level is over 86 dB (+3dB/-5dB), automatic muffler will be activated to draw the sound level back to 86 dB (+3dB/-5dB) or below.

EXTERNAL PLUG-IN

The AUX Jack (19) by plug-in an external audio source that is to connect to any audio output (such as MP3 etc) will provide you with additional entertainment.
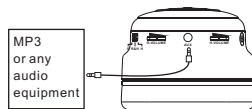
WALKIE TALKIE OPERATION

Holding the antenna will affect the effective distance of reception range.

Feature Description

1. The high quality software of CTCSS (Continuous Tone-Coded Squelch System) provides 38 sub-channels to eliminate any interference.
2. Multi Levels of Volume Control.
3. Auto Search Channel for Matching.
4. Multi-channel Selection with Channel Indicator.
5. Battery Level Indicator.
6. SQL (Squelch Level) Selection.
7. Carrier Sense Protection.
8. Call Transmit Function.
9. Restore Factory Setting.
10. Power Disconnect Examination.

Operation

1. Press Main Power Button (13).
2. Put the Selector (26) to WT position, display is activated in 2 seconds.
3. When the unit is ready to use, press VOL + (7)/VOL - (4) to adjust volume.
4. Press "MENU" button (5) in the following sequence to select your desired function:
   a. Press "MENU" button (5) once, select channel (XX).
   - Set Channel
     Then use UP + (7)/DOWN -(4) to search your desired channel;
   - Scan Channel
     Indicator is blinking, press UP + (7) or DOWN - (4) and hold for 2 seconds to activate the automatic scanning function. Scanning will stop while approaching transmit/receive channel. After completion of transmit/receive, press UP + (7) or DOWN -(4) to resume the scanning procedure, or press "MENU" button (5)/PTT (11) to stop/return to the previous channel.
   b. Press "MENU" button (5) twice-select interference cancellation of CTCSS and add-in code for transmissions.
   - CTCSS set up
     Press "MENU" button(5) twice after power on. Then press UP + (7)/DOWN - (4) to set CTCSS from 1-38.
   c. Press "MENU" button (5) 3 times SQL selection.
   - SQL 0-5 level
     Press "MENU" button (5) 3 times selection set up SQL, LCD display SQL covers 5 levels for selection. Presses UP + (7)/DOWN - (4) to set the level. Level 5 is the highest and level 1 is the lowest. 00 is ths off SQL.
   d. Press "MENU" button (5) 4 times for battery type selection.
   - Battery Type
     When battery symbol blinks, press UP + (7) DOWN - (4) to select battery type. (N: Recharge Battery A: Normal Battery 3AAA) With correct type of battery selected, it gives correct indication of the capacity and lifetime of battery you use.
   e. Press "MENU" button (5) 5 times or PTT button (11) to return standby mode.
   - Call Function
     Press Call Button (8) to transmit call tone to receiver.

5. Mutual Communication PTT - Press to Talk (11)
   Make sure the involved parties apply the same frequency and CTCSS. To set up CTCSS, please refer to the remark of CTCSS switch on/off menu. To transmit, press PTT button. For maximum clarity, hold the microphone 8-12 cm away from mouth and speak directly to the microphone. Release PTT button after speaking when receiving, no transmit is allowed. An alert sound beeps until PTT is released. Please note that PTT is a one-way function, no transmit can be made when receiving function is activated or vice versa.

6. Low Battery Reminder
   When the battery power is ample, the reminder symbol is displayed 🔋
   When the battery power is low, the reminder symbol is displayed 🔋
   When the Low Battery Reminder is transmit, function will not be activated.
7. Combination Function
   To restore factory settings, press/hold the Menu and PTT buttons and press Power Switch simultaneously.
   Frequency: 01, CTCSS: On, Keypad tone: On, SQL: 2, other function: On
8. Memory
   Memory will not be lost even power is off.
9. Carrier Sense Protection (only applicable in more than 2 units)
   Receive/Transmit switch interval is less than 2 seconds. Another communication will be in process when communication (receive/transmit) time more than 3 minutes. An alert beep sound will remind you when pressing PTT more than 15 seconds. Sound will not be stopped until PTT button is released and transmit can be retried in 15 seconds afterwards.

BLUETOOTH

Before apply Bluetooth function, read the Important Safety and Legal information pamphlet and follow its instructions.
1. Bluetooth pairing setting
   Before turning on Bluetooth, pair your headset with your phone.
   a. Press main power button (13), select to BT position (26).
   b. Press and hold PTT button (11) until the blue and green light is blinking. For successful Bluetooth operation, you can set the phone to look for headset.
   c. If blue light remains lit or no blinking, turn off the headset and repeat step b.
   d. To turn off the headset, press and hold PTT button (11) until it turned off.
2. Mobile Phone Pairing Setting
   a. Power on your mobile phone, select Menu>Settings>Connection>Bluetooth Link>Handsfree>Look for Devices. Mobile Phone will list out all the Bluetooth Setting.
   b. Select Bluetooth Headset to model BT.
   c. Press OK or Yes to pair (link) the handsfree device.
   d. Enter the passkey: 0000

e. Press OK.
f . When your headset is successfully paired with your phone, the blue/green indicator light switch is alternate blinking till the blue indicator light changes from blinking to steadily lit.
3. Test and use
   a. Your phone and headset are now paired and ready to make and receive calls. To confirm they are operating properly, make a call:
   b. Place the headset over your ear
   c. On your phone, dial the number you want to call and press the Send key.
   d. If your phone and headset are successfully paired, you hear ringing on the headset.
   e. Adjust volume to your desired level by using Volume Control Knobs (7 & 4).
   f . After you have successfully paired your phone and headset, you do not need to repeat these initial setup steps each time you use the headset.
4. Switch on/off the BT headset, long press PTT button (11) until the indicator light is off.
5. At BT mode, you can normally make a call or answer an incoming call while listening to the radio. Headset will switch to BT function to receive the call automatically. When the call is finished, the headset will turn back to radio mode in 5-10 seconds.
6. Press and hold "VOL" (3) button for 2 to 3 seconds, redial the last number automatically.

Frequency Interference with Area

Use the headset only in its normal operating positions. Remember to follow any special regulations in force in your intend country/state, and always switch off your device when it is prohibited to use or when it may cause interference/danger. To minimize frequency interference in any area, please follow the instruction to operate the headset. If using the headset and interference caused, please try the following ways to improve the situations.
- Re-adjusting the radio frequency/change the location of reception.
- Consult qualified technicians for advices.

Communication Range

In a good communication range condition, the distance at least 1.5km or above.

Channel Frequency Allocation Chart

Channel	Service	Frequency(MHz)	Channel	Service	Frequency(MHz)	Channel	Service	Frequency(MHz)
1	GMRS/FRS	462.5625	8	FRS	467.5625	15	GMRS	462.5500
2	GMRS/FRS	462.5875	9	FRS	467.5875	16	GMRS	462.5750
3	GMRS/FRS	462.6125	10	FRS	467.6125	17	GMRS	462.6000
4	GMRS/FRS	462.6375	11	FRS	467.6375	18	GMRS	462.6250
5	GMRS/FRS	462.6625	12	FRS	467.6625	19	GMRS	462.6500
6	GMRS/FRS	462.6875	13	FRS	467.6875	20	GMRS	462.6750
7	GMRS/FRS	462.7125	14	FRS	467.7125	21	GMRS	462.7000
						22	GMRS	462.7250

Note: License is required on the GMRS channels.

Sub-channel Frequency Allocation Chart (Standard)

Sub-channel	Frequency (Hz)	Sub-channel	Frequency (Hz)
1	67,0	21	136,5
2	71,9	22	141,3
3	74,4	23	146,2
4	77,0	24	151,4
5	79,7	25	156,7
6	82,5	26	162,2
7	85,4	27	167,9
8	88,5	28	173,8
9	91,5	29	179,9
10	94,8	30	186,2
11	97,4	31	192,8
12	100,0	32	203,5
13	103,5	33	210,7
14	107,2	34	218,1
15	110,9	35	225,7
16	114,8	36	233,6
17	118,8	37	241,8
18	123,0	38	250,3
19	127,3	Off	Off
20	131,8		

Problem solving

Problem	Solution
Unable to turn on	Re-setting or change the batteries.
Unable to receive	Make sure in a correct channel (frequency), release PPI when receive or re-setting/ charge the batteries, change the location when you are at the lower condition or communication range.
Lower communication range	Too many buildings may cause lower condition of communication range, please change to the other good location.
Interference	The communication range condition should be at lease 1.5 km or above.
Unusual Display	Re-setting or change the batteries.
Unable Transmit	Make sure it is in a correct channel (frequency), press PTT when talking; re-setting or change the batteries. When the frequency is occupied, used other channel.
Noise/other chatting	Channel is in used, then change to the other channel (frequency).

Technical Standard (specifications)

1. Emission Format F3E
2. Maximum Average Transmit Power (ERP): <50mW
3. Transmit Frequency Tolerance: <±5ppm
4. Transmit Spurious Emission: <50uW
5. Receiver Spurious Emission: <20uW
6. Adjacent Channel Band Width: 25 kHz

Remarks

Reinforce/change frequency, connect or use external antennas are prohibited.
Prohibit using when it may cause interference to other legal communication operation.
Headset using is not under regulation protection. Please tolerate

interference made by other public communication.
Prohibit using at the airport/in plane.
Prohibit using in other communication purposes (such as internet).

Troubleshooting

MY PHONE DOES NOT FIND MY HEADSET
Make sure the blue light on your headset is steadily lit when your phone is searching for devices (see above Point 1).

MY HEADSET WORKED BEFORE BUT NOW IT'S NOT WORKING
Make sure your phone is on and the Bluetooth feature is turned on in your phone (see above Point 2). If the Bluetooth feature has been turned off or was turned on only temporarily, you may need to restart the Bluetooth feature (see above Point 2).

PRECAUTIONS AND WARNINGS ⚠

- When batteries have been used for a long time, replace all batteries. This unit should not be used in a high-temperature or high-humidity environment over prolonged periods of time as it may damage the receiver.
- Exposure to direct sunlight in places such as car interiors which may reach temperatures of up to 60°C (140°F) may cause the case of this unit to become warped or lead to malfunctioning.
- Do not use solvent or any abrasive powder to clean the casing. Simply wipe it with a soft cloth moistened with a mild detergent and water solution.
- When not using your unit for long periods of time, please be sure to remove the batteries from the unit to prevent battery leakage.
- Never immerse the receiver in water. This will damage the electronic components.
- The earpieces are capable for rotating 90°only to allow comfort when wearing the headset to find the angle of the head to ear.
- Adjust the extension headband to suit your requirement. Over expanding the headband may result in it being deformed. Please refers to diagram below.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

SPECIFICATIONS

Frequency: AM 522-1620 kHz
               FM 87.5-108 MHZ
Battery: DC 4.5V (1.5V x 3)
               /GR6/UM-4/AAA

A   B

Normal   easy to deform or even broken the headband
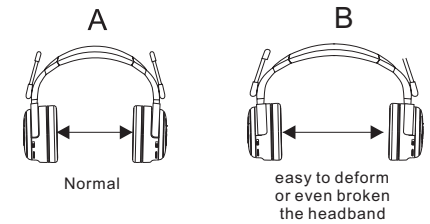
FCC ID: WYQ-BT-860509
Made in China

Notes:

1. 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 radiate 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 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 into an outlet on a circuit different from that to which the receiver is connected;
   - Consult the dealer or an experienced radio/TV technician for help.

2. According to FCC RF exposure regulations, the product's maximal time averaged power is 250mW complying with the low threshold of the KDB447498.

3. When the radio is transmitting on GMRS frequencies, that operation on GMRS frequencies inquires an FCC license and such operation is subject to additional rules specified in 47 C.F.R. Part 95.