

blackbox™
2-way radios



User Manual

for Blackbox™ Bantam® Series



RUGGED COMPACT RADIO!



- 16 Channels
 - 5 / 2 watt VHF, 4 / 2 watt UHF
 - Scanning
 - 1500 mAh Lithium Ion Battery
 - Rapid Rate Charger
 - PC Programmable Freqs
 - Customizable Voice Channels
 - Rugged & Compact
 - Dimensions: 2.3" W x 3.75" H x 1.34" D
- NARROWBAND COMPLIANT

Racing
Retail
Engineering
HUNTING
ATHLETIC
Crowd Control
Valet
Manufacturing
Construction
Health Care
Warehousing
SECURITY
Facilities



"NO LOOK"
Voice Channels
Customizable for teams or groups!

"Simple Jack"
Headset, Earpiece, Programmable
PPTC. And each supports 100 phones or more!

"Rugged"
Rough in 10's of VHF/UHF Channels!

"EZ2"
Memory of 200 Channels
Program Backwards!
Have someone else
program the radio!

SECURITY

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Safety

Please read the warnings below. Failure to obey these warnings may cause danger or violation of the law.

- Use this radio in compliance with local government regulations.
- Please turn off the radio before entering a potentially explosive or flammable environment.
- Do not replace or charge battery pack in a potentially explosive or flammable environment.
- Turn off the radio before approaching a blast area or detonator area.
- Do not use if the antenna is damaged. Damaged antennas may cause burns.
- Only qualified technicians are permitted to do maintenance on this two way radio. Do not disassemble the radio.
- To avoid problems caused by electromagnetic interference or electromagnetic compatibility, please turn off the radio in places with a Wireless Communication Transmit Equipment Prohibited sign posted, such as hospitals or health care facilities. When in a plane, turn off the radio if required.
- Do not put the radio within the possible range of an airbag in a vehicle.
- Do not expose the radio to direct sunlight or near heating devices for a long period of time.
- Keep the radio vertical and speak near the microphone during transmission.
- If you carry the radio on your body, please keep the antenna 1 inch (2.5cm) away from your body when transmitting.

Unpack and Check

Before use, we recommend that you check the packing and identify the items listed below. If any damage has occurred during shipment, please contact your local dealer.

Items	Radio	Antenna	Battery	Charger w/adaptor	Adaptor	Belt Clip	Strap	Warranty Card
Quantity	1	1	1	1	1	1	1	1

Note: For frequency band of antenna, please refer to the label on the bottom of the antenna.

Optional accessories are available to meet your requirements. Use genuine Blackbox™ Bantam® accessories to ensure clear communication and outstanding performance.

Get Acquainted

Battery Information

Applicable Battery Model:

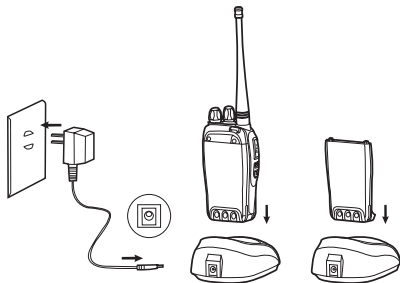
Please charge with Blackbox™ Bantam® branded battery charger; Charging with other types of battery chargers may cause explosion, personal injury or damage to the radio.

Note:

1. Do not short-circuit the battery terminals or dispose of the battery in a fire. Do not disassemble the battery casing.
2. Charging should be done between 0°C ~45°C. If temperature is outside this range, the battery may not charge fully.
3. Please turn off the radio before charging.
4. Do not unplug the adapter or remove the battery during charging. This will interfere with the charging process.
5. When the battery power is consumed quickly, even after a full charge, please replace with a new battery.
6. Do not charge when the battery or radio are wet. Dry it with a cloth to avoid possible electrical shock.

Warning:

Please prevent any metal conductors such as jewelry or keys from contacting the battery electrodes. Use precaution when placing the battery into a pocket, wallet or any metal container.



Charging Steps:

Please charge as follows:

1. Connect the adapter with the charger.
2. Plug the adapter into an A/C outlet.
3. The charger is ready for charging if the indicator LED lights red for one second and turns off. If the indicator LED is flashing, the charger is not ready.
4. Place the battery into the charger aligning the battery slots with the charger guide rails.
5. The indicator LED lights red when charging. If the battery capacity is too low, the indicator LED flashes red. The battery first trickle charges and turns to normal charging automatically.
6. The battery is fully charged when the battery LED light is green. The charger stops charging automatically.

Precautions in Charging

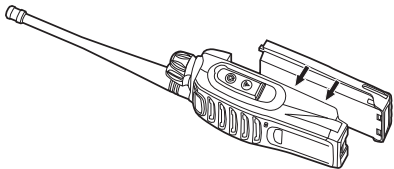
Please charge the battery before initial use or after extended storage. Please charge or replace the battery if the power is low. If the battery power is consumed quickly even after a normal charge the battery life is finished. Please replace with a new battery pack.

Do not charge the battery with the radio power on.

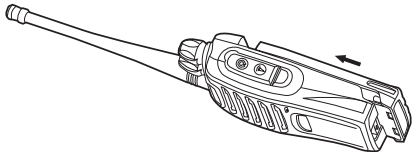
Attaching and Removing the Battery Pack

Attaching the Battery

Match the two grooves of the battery with the corresponding guides on the back of the radio. Make sure the battery is flat against and parallel to the aluminum chassis.

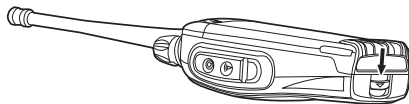


Then push the battery along the guide until the battery latch locks.

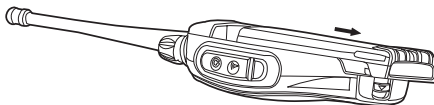


Removing of Battery:

Before removing, make sure the radio is turned off. Then push downwards on the battery latch.



Slide the battery towards the bottom of the radio.



Attaching/Removing the Antenna

Attaching the Antenna (Figure 1)

Screw the antenna into the connector at the top of the radio by holding the bottom of the antenna, and turning it clockwise until secure.

Removing the Antenna (Figure 2)

Rotate the antenna counter clockwise by holding the bottom of antenna.

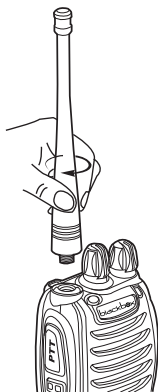


Figure 1

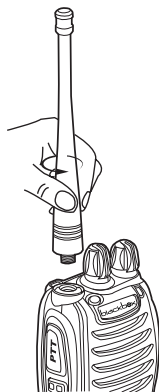


Figure 2

Attaching/Removing Belt Clip

Attaching Belt Clip (Figure 3)

Align the screw eyelets of the belt clip with those on the rear of radio and fasten the belt clip with enclosed screws.

Removing Belt Clip (Figure 4)

Loosen the screws to remove the belt clip.

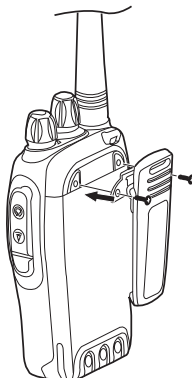


Figure 3

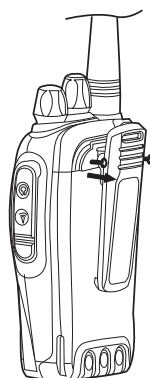


Figure 4

Attaching External Earphone/Microphone

1. Open the Earphone/Microphone jack cover. There is no need to remove it. (Figure 5)
2. Insert the Earphone/Microphone into the Earphone/Microphone jack. (Figure 6)

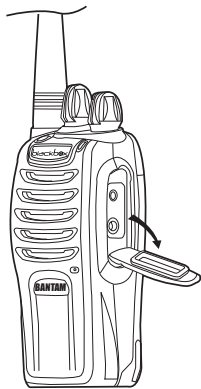


Figure 5

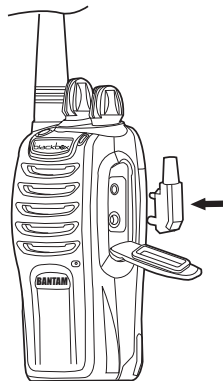


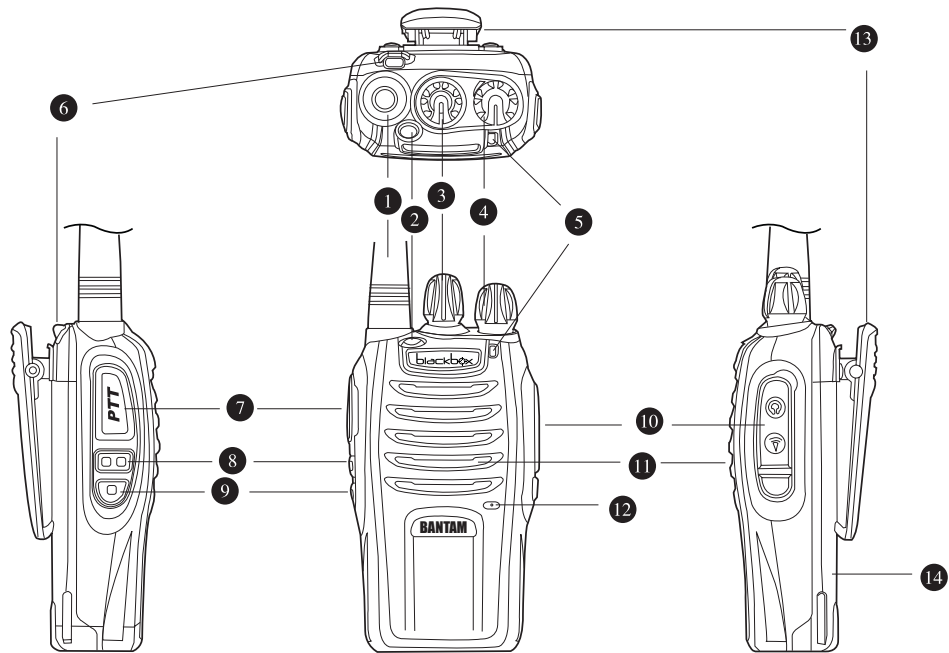
Figure 6

Attaching the Strap

- Thread the strap into the hole at the back of the radio and fasten it.



Radio Overview



- ① **Antenna**
Antenna with helical plug is used to transmit and receive signals.
- ② **Top Key: Programmable Key**
The default setting is off.
- ③ **Channel Selector**
Choose channel and the channel annunciation is available if the voice prompt is on.
- ④ **Power Switch/Volume Control**
This knob is to turn on/off the radio and adjust volume. Rotate the knob clockwise until a click sounds to turn on the radio. Rotate it further to adjust the volume. Rotate the knob counter clockwise until a click sounds to turn off the radio.
- ⑤ **LED Indicator**
The LED indicator glows red during transmitting; glows green during receiving; flashes red when the battery power is insufficient; flashes green during scanning.
- ⑥ **Strap Hole**
The hole is to fasten the strap.
- ⑦ **PTT (Push-To-Talk) Key**
To transmit, press down the PTT key and speak into the microphone; release it to receive.
- ⑧ **Side Key 2: Programmable Key**
The default setting is monitor.

Over View (continued)

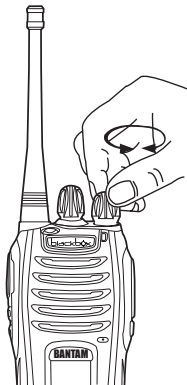
- ⑨ **Side Key 1: Programmable Key**
The default setting is off.
- ⑩ **MIC-SP Jack/ Data Port**
To connect the earphone/microphone or programming cable
- ⑪ **Speaker**
Output voice.
- ⑫ **Microphone**
Input voice.
- ⑬ **Belt Clip**
The radio is easy to carry for you can clip it on your belt.
- ⑭ **Li-ion Battery**

Basic Operation

Turning the Radio ON/OFF

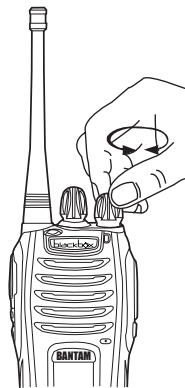
Rotate the Power Switch/Volume Control knob clockwise until a click sounds to turn on the radio. At the same time, a voice indication of the current channel is heard.

Rotate the Power Switch/Volume Control knob counter clockwise until a click sounds to turn off the radio.



Volume Adjustment

After the radio is turned on, rotate the Power Switch/Volume Control knob to adjust volume.



Tip: you can listen to background noise in monitor mode and adjust the volume.

Channel Selecting

Rotate the channel to choose your desired channel from 1~16 channels.

You can select the channel according to the number or symbol mark at the bottom of the knob. Also, you can operate according to channel annunciation.



Make a Call

To make a call, hold down the PTT key and speak into the microphone with normal voice. Please keep the microphone 2 inches away from your mouth.

Tip:

1. Hold down the PTT button and the LED indicator glows red, the radio begins to transmit.
2. If the LED indicator flashes red, the battery power is insufficient. The radio can not transmit when the battery power is not enough for normal operation.

Receive a Call

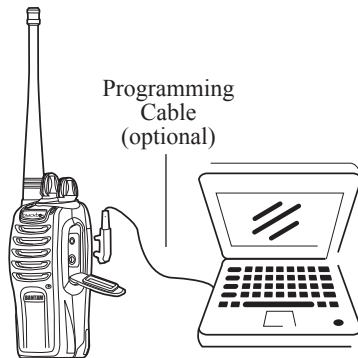
Release the PTT button, the radio begins to receive. You can hear the other voice if you receive a call on your current work channel. If call signal is too weak or you set very high squelch level, you can not hear the call.

Auxiliary Functions

Auxiliary Functions need to be set through PC software or contact your dealer for programming.

PC Programming

1. Visit blackboxradios.com to download the Bantam® programming software (you can also contact your dealer for programming).
2. Turn off the radio and connect it to the PC with the programming cable (see figure on the right).
3. Run the programming software, then turn on the radio. Press “Read” button and change the parameter data as needed.
4. Press the “Write” button to change parameters in the radio.
5. For parameter setting and operation, please refer to the help documents of the software.



Programmable Key Settings

Key Setting menu. The default setting is as follows:

- The default long press duration is 2 seconds.
- Top Key (orange key) long press: off
- Top Key (orange key) short press: off
- Side Key 2 long press: off
- Side Key 2 short press: monitor
- Side Key 1 long press: off
- Side Key 1 short press: off

You can change the function settings to a function key's long and short presses using the programming software on the "Key Settings" Menu.

The keys can be set as: off, monitor, monitor momentarily, sound of encrypt, alarm, electricity demand, whisper, VOX or power.

Battery Power (electricity demand)

With this function, the radio will report the battery power by audible indication: "Power High", "Power Middle", "Power Low", and "Please Charge Battery".

High/Low Power Switching (power)

You can set the power setting of each channel separately according to your work environment to maximize the use of battery power. When set at low power, the radio uses less current, thus the battery operating time is prolonged. High power is 5W and low power is 1W.

- You can select "Power Select" in "Channel Information" menu to set the power as high/low power of each channel separately.

Monitor

This function can be set as (Top Key) / (Side Key 2) / (Side Key 1) using the programming software on the “Key Settings” Menu. For operation, press the programmed key to hear a weak signal and to help you adjust the volume when no signal is received. Press the key again to cancel monitor.

Sound Encrypt (Voice Encryption)

When this function is programmed, the transmit sound is encrypted. The other side needs to decrypt the transmission. Otherwise, the sound received is noise or unintelligible audio.

1. This function can be set as (Top Key) / (Side Key 2) / (Side Key 1) using the programming software on the “Key Settings” Menu.
2. Press the programmed key and the radio will announce “Voice Encrypt On”. Press again to disable and the radio will announce “Voice Encrypt Off”.
3. You can turn this function on / off on the “Optional Feature” menu at the “Sound of Encryption”. Check the box to turn on the function and uncheck the box to turn off the function.

Whisper

With this function, you can be clearly heard even if you speak into the radio with a very low voice.

1. This function can be set as (Top Key) / (Side Key 2) / (Side Key 1) using the programming software on the “Key Settings” Menu.
2. Press the programmed key and the radio will announce “Whisper On”. Press again to disable and the radio will announce “Whisper Off”.
3. To set the microphone receiving volume level the Whisper level can be set as 1, 2, or 3. 1 is the most sensitive, 3 is the least sensitive.
4. You can turn this function on / off on the “Optional Feature” menu at the “Whisper Function”. Check the box to turn on the function and uncheck the box to turn off the function.

Alarm

With this function programmed, the radio alarm sounds and the LED glows red. At the same time it sends an emergency signal to other Bantam radios on the same channel and the receiving radio will sound an alarm tone.

1. This function can be set as (Top Key) / (Side Key 2) / (Side Key 1) using the programming software on the “Key Settings” Menu.
2. To stop the local alarm, press the (PTT) key to return to normal operating status. The receiving Bantam radio resumes normal operation after pressing the (PTT) key.
3. After sending the emergency signal, the radio will not receive transmissions until the (PTT) key is pressed. The radio will re-send the emergency signal every 5 seconds until the (PTT) key is pressed.
4. You can turn this function on / off on the “Optional Feature” menu at the “Alarm Function”. Check the box to turn on the function and uncheck the box to turn off the function.

VOX

With VOX, you can directly speak into the microphone without holding down the (PTT) key. The LED glows red and your voice will be transmitted. When operating in Whisper VOX mode using earphones, the radio beeps when VOX is enabled.

1. This function can be set as (Top Key) / (Side Key 2) / (Side Key 1) using the programming software on the “Key Settings” Menu.
2. Press the programmed key and the radio will announce “VOX On”. Press again to disable and the radio will announce “VOX Off”.
3. To set the voice control sensitivity of the VOX, the VOX level can be set as 1, 2, or 3. 1 is the most sensitive, 3 is the least sensitive.
4. Whisper VOX (using earphones): Check the box to enable the function and uncheck the box to disable the function.
5. VOX function: Check the box to enable the function and uncheck the box to disable the function.

During the VOX operation, press the (PTT) key to cancel the VOX function. Turn off and then turn on the radio to re-enable the VOX function.

Note: Checking both “Whisper VOX” and “VOX Function” the VOX is disabled.

Other Function Settings

Voice Prompts

The default setting for this function is voice prompts in English. You can know the current channel through voice prompts.

1. In the “Voice/Beep Tone” in “Optional Feature” menu, you can set the prompts as OFF/English/Tone.
2. Channel Annunciation: The radio will report the current channel number when you switch to a channel.
3. Low Battery Alert: The radio will alert you by voice prompts when the battery power becomes low.
4. Scan On Indication: If the current channel is set as the scan channel, the radio will inform you by voice prompts.

Low Battery Alert

When the radio announces the low battery alert either by voice indication “beep/please change the battery” or the LED flashes red when transmitting the radio will stop transmitting. Please replace with a new battery or charge the battery.

Battery Save

The receiver circuit will cycle ON and OFF by the selected ratio to reduce power consumption. The radio automatically enters save mode 5 seconds after no signal is received or transmitted and no key has been pressed.

1. The default save scale is 1:3. You can change the “Save Scale” in the “Optional Function” menu of the programming software. You can select off, 1:1, 1:2, 1:3, or 1:4. Selecting “Off” cancels the auto battery save. Selecting 1:4 offers the highest battery conservation.

DTMF (PTT ID/ANI)

You can enter a DTMF code (up to 8 digits, consisting of 1234567890ABCD*#) in the “PTT ID” item in the “Optional Feature” menu. You can also set the code to be sent at the “Begin of TX”, “End of TX” and/or as “Side Tone”. Check the box to enable the function and uncheck the box to disable the function.

You can edit the DTMF code setting in the “DTMF” item in the “Optional Feature” menu.

DTMF Speed (digit/s): Setting Range is 4-15. Default is 6.

First Digit Time (ms): Setting Range is 0~100ms. Default is 0ms.

First Digit Delay (ms): Setting Range is 100~1000ms. Default is 100ms.

Lock Check

When this Function is set as “Check”, the radio will sound a continuous “Beep” when the PLL overlocks or is unable to work normally. When this item is set as “Off”, the radio will not make lock check of PLL.

Busy Channel Lock

This function prevents the radios from transmitting while another radio is transmitting on the same frequency or on the same frequency with the same CTCSS/CDCSS tone. Pressing (PTT) key while the channel is in use, the radio will generate alert tone and transmission is prohibited. Release (PTT) key to stop the alert tone. When channel is not in use, press (PTT) key again and transmission is enabled.

1. Using the programming software in the “Channel Information” menu you can set this function in the “Busy Lock” column of each channel separately.

“OFF”: the function is disabled.

“Carrier”: the radio will not transmit if signal on the current frequency is being received.

“QT/DQT the radio will not transmit if signal on the current frequency with the same CTCSS/CDCSS tone is being received.

Scan

The default setting of this function is off. When this function is enabled, rotate channel selector knob to 16th channel. The LED flashes green and the radio will check all channels that have the Scan set to YES. The radio automatically stops at the channel on which a signal is received.

You can enable through “Scan Information” item on the “Optional Feature” menu:

1. Scan Type: Selecting “off”, CH16 is a normal operating channel. Selecting “Carrier Operate” when rotate the channel selector to 16th channel, the radio will start scanning.
2. Dropout Delay Time: The Dropout Delay Time is the time from the end of a received call to the time scanning automatically resumes. Setting range is 0.5~64.5s. The default setting of this item is 3.5s.
3. TX Dwell Time: TX Dwell Time is the time from the end of transmission to the time scanning automatically resumes. Setting range is 0.5~64.5s. The default setting of this item is 3.5s.

Squelch

Set squelch level to decide how strong a received signal needs to be to unmute the speaker. The lower the squelch level the weaker the received transition needs to be to unmute the speaker.

The default setting of this function is Level 4. You can set through “Squelch Level” option in “Optional Feature” menu. Setting range is 0~9. Selecting “0” causes the squelch to be open. The higher the squelch level, the harder to open the squelch.

Time Out Timer (TOT)

Time out timer is used to prevent someone from using the same channel for a long time. At the same time to avoid radio damage, caused by extended continuous transmission. If the transmission exceeds the preset time, transmission will be inhibited and an alert tone will sound. To stop the alert tone, release the (PTT) key. Press (PTT) key again and transmission is enabled.

The default setting of this function is 180s. You can set through “Time Out Timer” item on “Optional Feature” menu. The maximum time is 5 minutes.

25KHz/12.5KHz (Wide band/Narrow band)

The default setting is 25KHz. You can decide whether the channel works as 25KHz or 12.5KHz through “W/N” item in “Channel Information” menu.

CTSS/CDCSS

CTSS/CDCSS is a sub-audio signal, mainly used to avoid unwanted conversations on the same channel. With CTSS/CDCSS set, you can only hear conversations with matched CTSS/CDCSS within effective signal range. Without CTSS/CDCSS, you will receive all conversations on the same channel within effective signal range. You can preset CTSS/CDCSS signaling through “CTC/DCS ENC” item in “Channel Information” menu or by your local dealer.

Invalid Channel Indication

If current operating channel is an invalid channel, the radio will send continuous “Dududu” as an alert tone, which means the current channel is unable to transmit or receive.

Battery Power Indication

This function enables you know the residual battery power at any time and place.

Turn on the radio and LED will indicate the residual battery power L1, L2, L3 and L4 by flash times: 1, 2, 3 and 4. L4 means the battery power is full. L1 means the battery power is lower than the minimum normal operating power capacity and should be replaced soon.

Power Protection

During use or maintenance, transmission is prohibited if the power source is improper or the working voltage is higher or lower than normal working voltage.

If the work voltage is lower than 6.2v or higher than 9.5v, transmission is disabled.

Specification

General

Frequency Range	UHF: 400-470MHz VHF: 136-174MHz
Channel Capacity	16 (15+S)
Channel Spacing	25.0kHz / 12.5kHz
Frequency Stability	±2.5PPM
Operating Temperature	-25~+55°C
Antenna Impedence	50Ω
Li-ion Battery	1500mAh
Operating Voltage	7.5V
Dimension (W×H×D)	2.3" × 3.75" × 1.34" or 59mm x 96mm x 34mm
Weight (with antenna & battery)	6.98 oz. or 198g

Transmitter

RF Power (H/L)	UHF: 4W/2W VHF: 5W/2W
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Receiver

Audio Distortion	≤5%
Reference Sensitivity	0.15uV/ 0.18uV
Adjacent Channel Selectivity	65dB / 55dB
Intermediation Reject Ratio	55dB
Audio Power Output	Maximum: ≥0.6W

Appendix: Technical Terms

Name	Description
CTCSS / CDCSS	CTCSS / CDCSS is a kind of signaling attached to audio signal. If the CTCSS / CDCSS of the transmitter is the same as that of the Receiver, the speaker is unmuted and sound comes out. Otherwise sound can not come out.
Monitor	This function enables you to hear all calls even with unmatched CTCSS / CDCSS.
Scan	A way to hear conversations on all channels.
BCL	Busy Channel Lockout. When this channel is in use by others, your radio is prohibited from transmitting on the channel to avoid interference.
Wired Clone	This is a way to clone parameters from one radio to another one.
TOT	Time out timer is used to prevent someone from using the same channel for a long time. At the same time to avoid radio damage by continuously transmitting for long time.
Squelch	This is to solve problems of talk quality and noise. Squelch suppress the background noise and keep the radio quiet when no signal is received. Squelch mutes the radio when no signal is received. Turn on the Squelch, and you will hear the sound from the speaker.
Squelch Level	Noise strength is inversely proportional with signal strength. The stronger the signal, the weaker the noise is. The noise is divided to several levels according to its strength. The user can select the level to suit the working environment.
VOX	Voice Operated eXchange: VOX enables the user to speak into the radio without pressing (PTT) key and the sound is transmitted.
Whisper	With whisper function on and the radio equipped with earphone, you can speak into the microphone quietly and your voice can still be clearly heard.
Alarm/Emergency Alert	This function enables the user to send an emergency alert to other users on the same channel. Other radios on the same channel will sound an emergency alert after received emergency signal.
PTT ID	With this function on, the radio will send an ID code when pressing or releasing the (PTT) key, allowing another radio and management control centers to identify it.

Warranty and Return Policy 2013

If there are any Defects in material or workmanship under normal use and service, items will be repaired or replaced free of charge for 3 Years from date code on product. Simply contact your salesperson for repair or replacement.

Blackbox Radios warrants all products against **manufacturer's** defects as long as the product is still under warranty. The forgoing warranty is limited and is not applicable to: (i) normal wear and tear; (ii) defects or damage caused by misuse, accident (including without limitation collision, fire and the spillage of food or liquid), neglect, abuse, alteration, unusual stress, modification, improper or unauthorized repair, installation, alteration, wiring, or testing, improper storage, use in an unapproved device or if the serial number has been removed; (iii) use not in accordance with the documentation; and (iv) damage caused by the equipment with which the product is used. Visible physical damage invalidates warranty. Incomplete product kits will not be accepted for replacement or repair.

Shipment errors must be reported within **3 days** of receipt of goods in order to get replacements.

Blackbox Radios does not accept returns on custom orders. All custom orders are final. Items may only be returned for credit if they are unused, in original packaging and purchased within the last thirty (30) days. There will be a 20% restocking fee to ALL items returned for credit that meet the above stipulations. **Blackbox Radios does not issue refunds** and we reserve the right to not issue credits.

Non-Warranty Repairs

Blackbox Radios standard labor rate is \$60.00 an hour with a minimum requirement of thirty minutes. This does not apply to excessive damage (i.e. water-damaged units). If an excessively damaged unit is deemed repairable, the fee may be up to \$85.00 per unit. The cost of parts varies and is in addition to the labor charges. Radio Programming fees are set at \$5.00 per unit. All goods repaired will require a signature of authorization to do the repair.

RETURN TO CUSTOMER (RTC ITEMS)

Items returned that are deemed “non manufacturers defect”, have the date code missing, or are not within the proper warranty time-period may be repaired with a labor fee at the sole discretion of Blackbox Radios. Items deemed “RTC” are not covered under Blackbox Radios, warranty policy and the customer will be responsible for paying the shipping costs to return the products back to the customer. If the customer does not want to receive the RTC items and pay the shipping costs, Blackbox Radios will dispose of the products.

By returning a product for repair, the owner grants Blackbox Radios permission to open and disassemble the product as required for evaluation. In all cases, Blackbox Radios has sole responsibility for determining the cause and nature of failure, and Blackbox Radios determination with regard thereto shall be final.

Customers pay for shipping to and from Blackbox Radios, the cost of the non-warranty repair will require payment in the form of Visa, MasterCard, American Express or COD. Customers with open account status may be billed directly, if a purchase order for the repairs and shipping is issued. If the customer does not approve the repairs through issuing a purchase order, the customer will be responsible for paying the freight charges to ship the product back.

FCC NOTICE:

This device complies with Part 15 and Part 90 of the FCC Rules and is listed.

Operational 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.

This equipment generates RF energy and if not installed or used in accordance with the instructions, may cause harmful interference to radio communications and other devices. There is no guarantee that interference will not occur. If this equipment does cause harmful interference, which can be determined by turning the equipment on or off or transmitting momentarily, the user is encouraged to try to correct the interference by one or more of the following methods:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit that is different from the one that the receiver is connected.
- Consult the dealer or an experienced radio/TV/communications technician.

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