

PT6500-02 User's Manual

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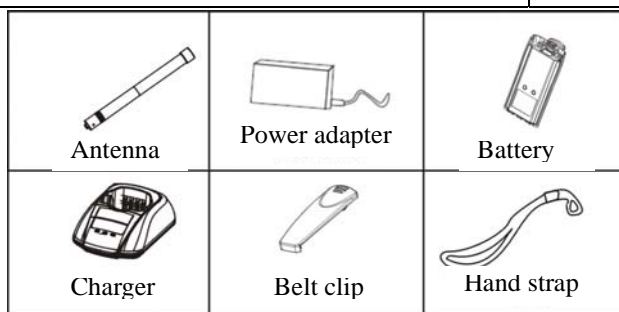
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Unpacking and checking

Unpack the transceiver carefully. We recommend that you identify the items listed in the following table before discarding the packing material. If any items are missing or have been damaged during shipment, please contact the dealer immediately.

Supplied accessories

Item	Quantity
Antenna	1
Battery	1
Belt clip	1
Charger	1
Power adapter	1
Hand strap	1
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Preparation

◆ Charging the battery

Connect the power adapter with the battery charger. Plug the adapter into an AC wall outlet and the indicator turns green.



Place the battery or transceiver into the charger slot, and make sure the transceiver has been turned off.

Make sure the battery is well connected with charger, then the indicator turns red or flashes, then the charger gets in the state of charging automatically.

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When battery is fully charged the indicator turns green.



The performance will be at the best condition if you remove the battery when the green indicator is on. Then remove the power adaptor from the wall outlet.

The charger will enter the protection mode when the yellow indicator flashes, which means the temperature or the circuit is abnormal. Do not charge the battery at this moment, just remove the battery and turn off the power of the charger.

Notes:

* The battery is not fully charged in the factory. Before the initial use, please charge the new battery.

KB-36C Li-ion battery of this company is adaptable with this machine.

* When you charge the battery the first time or after long time storage (2 months), several times of charging is needed. Make sure the battery is charged at least once every three months.

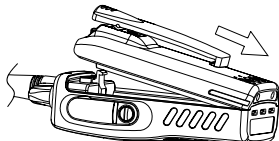
* Do not charge the battery again if it is charged fully or not in the low-pressure warning mode, otherwise, its life will be shortened or it will be damaged. Remove the battery from the charger after charging.

* There is a protection circuit in KB-36C battery, so the power will be cut off at too low battery.

◆ Installing/Removing the battery pack

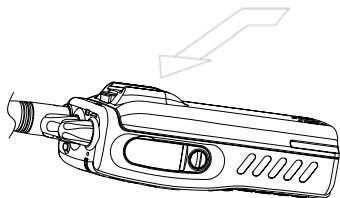
To install the battery pack:

Match the 3 bulges of the battery pack with the corresponding holes at the rear Button of the transceiver.



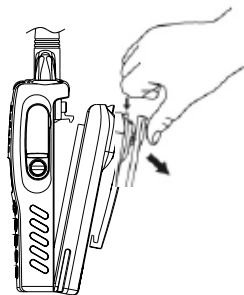
To install the battery pack:

Then firmly press the battery pack downwards to lock it in place until a click is heard.



To remove the battery pack:

Use your thumb to press the belt clip, and one side of your index finger to press the release button; and then pull the battery away from the transceiver.



Notes:

- * Do not cause short-circuit or throw the battery to the fire.
- * Do not disassemble the battery by your self.

◆ Installing the antenna

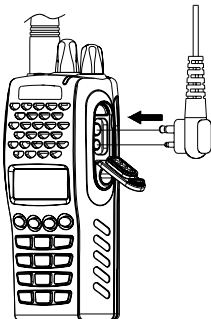
Screw the antenna into the connector at the top of the transceiver by holding the Button of the antenna and turn it clockwise until secure.



◆ Installing the optional speaker/microphone

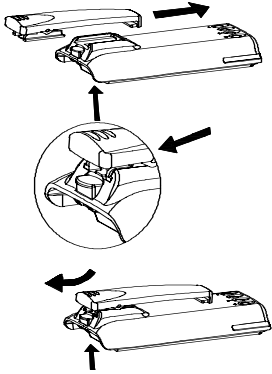
Insert the speaker/microphone plug into the jacks of the versatile connector, and fix it with the supplied snail screw.

7

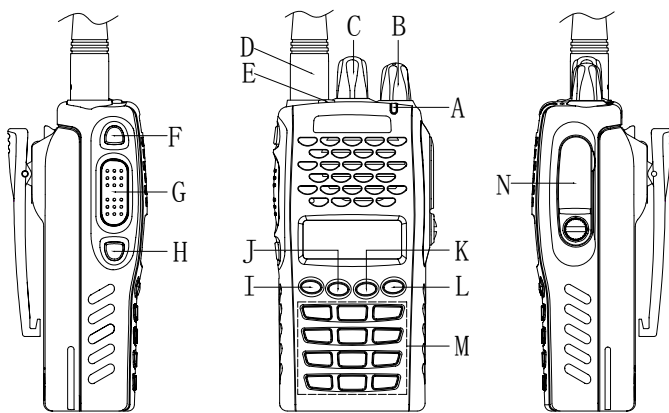


◆ Installing the belt clip

Match the grooves of the belt clip with those on the rear of the battery. Then press the support belt clip downwards to lock it in place. Push the card by inserting your nail or tool into the groove at the upper part of the clip to remove the belt clip.



■ Getting acquainted



The functions of the components are as follows:

A. LED Indicator

Lights red while transmitting;

Lights green while receiving a signal.

B. Power/Volume Switch

Turn clockwise till a click is heard to switch on the radio.

Turn counterclockwise till a click is heard to switch off the radio.

Rotate to adjust the volume after turning on the radio.

C. Channel Selector

Rotate to select the channel 1-128.

D. Antenna

E. Top Button (programmable button)

It is recommended to be set as the emergency warning Button.

F. Side button 1 (programmable button)

G. PTT (PUSH-TO-TALK) :

To make a call, press and hold the PTT button, then speak into the microphone with

normal voice.

H. Side button 2 (programmable button)

I. Button 

Return and delete button in the menu.

J. Button 

Select Button.

K. Button 

Select Button.

L. Button 

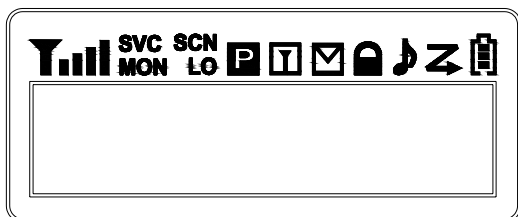
Enter and Confirm Button.

M. Numeric keypad

N. Microphone/speaker jacks

For connecting microphone/speaker.

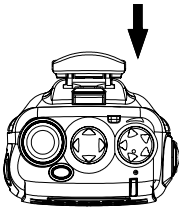
Explanation for the screen



■ Basic Operation

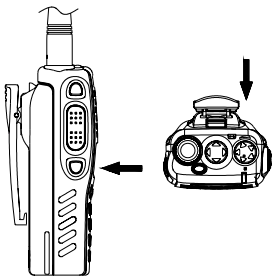
1. Switch On

Switch on the radio by turning the Power/Volume switch clockwise till a click is heard, then the radio will be in the state of stand by and you will hear a beep if the dealer has set it.



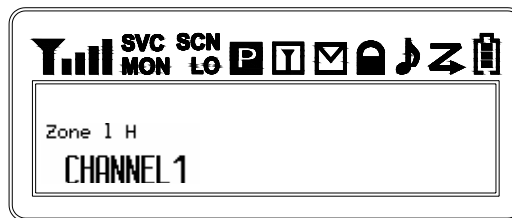
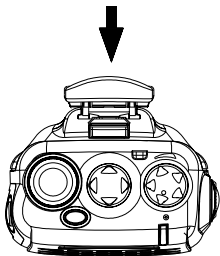
2. Adjust Volume

Press the button preset as canceling squelch to listen to the background noise and rotate the Power/Volume switch to adjust volume.



3. Select a Channel

Rotate the channel selector to select channels. You will hear voice from the speaker while receiving proper signals.



As shown in the above right figure:

Zone 1 is the zone of current channel (8 zones from 0 to 7).

H is the transmit power of the channel, H stands for high power,

CHANNEL 1 is the current channel (128 zones from 1 to 128).

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4. Make a Call

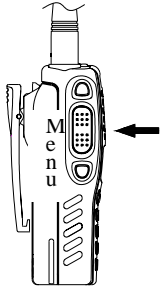
Open/close

Open/close

Level 0-9

High, middle,
low

To make a call, press PTT, and speak in normal voice and please keep your mouth 3~4 cm away from the microphone.




Select squelch mode


5. Receive a Call

Release the PTT button Select zone call.

Your dealer can set CTCSS, DCS, 2 Tone signaling on you radio channels by PC software.

If you select a channel that has been preset with the tone signaling, you will not hear any other calls except those ^{Number list} from your own system.

6. Operation on menu: press “P4” button to enter the menu or confirm any contents;








press “” button to return to the previous menu or cancel the set. When entered the

menu, select the sub-menu with the “channel selec _____”








The menu is as follows:

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If can not enter that way, you have to set in PC communications;
Set back light:

1. As shown: in , is shown.
2. Press  to enter select mode,
3. Press  , and is shown,
4. Press  to select On or Off,
5. Select On or Off with  , press  to confirm.


Set the squelch level:

1. As shown: in , is shown.
2. Press  to enter select mode,
3. Press  , then is shown,
4. Press  to select squelch level, e.g.,
5. Change the squelch level with  , then press  to confirm.







Set Companding:

1. As shown: in , is shown.
2. Press  to enter select mode,
3. Press  , and is shown,
4. Press  to select .
5. Select On or Off by  , press  to confirm.









Set saving:

1. As shown: in , is shown.
2. Press  to enter select mode,









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3. Press  , and **Save** is shown,
4. Press  to select **Save 1: 4**,
5. Change the save percentage with  , press  to confirm.








Set scrambler:

1. As shown: in **CH 1**, press , **utilities** is shown.
2. Press  to enter select mode,
3. Press  , and **Scrambler** is shown,
4. Press  to select, e.g., **Scrambler Off**,
5. Select On or Off by  , press  to confirm.

Set key tone:







1. As shown: in **CH 1**, press , **utilities** is shown.
2. Press  to enter select mode,
3. Press  , and **Key Tone** is shown,
4. Press  to select **Off** or **On**,
5. Select On or Off with  , press  to confirm.

Set speak On mode:

1. As shown: in **CH 1**, press  to enter select mode,
2. Press  , and **Speak Mode** is shown,
3. Press  to select the speak on mode,
4. Select with  , press  to confirm.

Set call list:

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1. As shown: in , press  to enter select mode,
2. Press  , and is shown,
3. Press  to select the call list,
4. Select with  , press PTT to transmit.

■ Programmable Button functions

The dealer can program the 2 Side Buttons and 1 top Button with one of the following auxiliary functions.

None

Off ("do not set the functions")

Scan

Separate working

Contact list

Show or hide the channel alias

Busy Channel Lockout (BCL)

Key lock

Squelch level selector

Companding

Scrambler

Battery power

Zone

Monitoring

Cancel Squelch

Emergency Alert

Back light

Rptr/Talkarnd

Express select channel 1

Express select channel 2

Call 1, 2, 3 or 4

Channel lock

Adjust display contrast

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Notes: programmable key can be set as short key or long key.

The following functions can be programmed by the dealer:


● None

Set of None.

● Scan

Press the button set as Scan to start scanning. While in scanning, the radio checks every channel (any channel in any zone) and stops on the channel on which a signal is detected until that signal disappears. If the delay time between signal disappearing and continuing scanning has been preset, the radio will remain on that channel. Only when there are two channels added in the scan list and the scan function has been activated, the radio can start scanning.

▲ It can be set as: short key: scan, long key: off.

1. Press the programmable key once to start scanning (it should be effective in the channel scan list).
2. Press  once to quit.

Notes: there are 8 zones from 0 (default zone) to 7; and there can be 128 channels to the most in each zone. There are totally 16 scan lists; you can select any scan list. Every scan list can scan any channels in different channels (16 channels to the most).

● Separate working

Press the button set as Separate Working to start separate working. This mode is to ensure the safety of the user while using the transceiver separately.

▲ It can be set as: short key: personal working, long key: off.

1. Press the programmable key once to start personal working;
2. Press once again to quit.

Notes: the separate working is connected with the automotive checking in the programming software, and will be effective when both are set.




● Contact list

Enter the Contact list quickly:

▲ It can be set as: short key: contact list, long key: off.

1. Press the programmable key once to enter the contact list 

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2. Press again to enter the content interface of the contact list, e.g.:
3. Select the options in the contact list with  
4. Press PTT to transmit
5. Press  to quit.

●Busy Channel Lockout (BCL)

Busy Channel Lockout can prevent you from interfering other radios that using the same channel. Press the PTT button when the channel is busy, the radio with BCL function active will make warning sound and prohibit transmitting. To stop the warning sound, please release the PTT button and the radio returns to receiving mode.

▲ It can be set as: short key: Busy Channel Lockout, long key: off.

1. Press the programmable key once, will be shown,

2. Select the character you need with  , e.g.:

3. Press  to confirm.

●Key lock

Press the key programmed as “key lock” for one second to lock/unlock the keys for the transceiver.

▲ It can be set as: short key: key lock, long key: off.

1. Press the programmable key once, will be shown,
2. Press it again, will be shown.

●Squelch level Selector

Enter the “Select squelch level” instantaneously, 0~9 levels are available with the channel selector.

▲ It can be set as: short key: Select squelch level, long key: off.

1. Press the programmable key once, will be shown,

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2. Select squelch level with  , e.g.:

Level 3

Level 4

Level 5


3. Press  to confirm.

●Companding

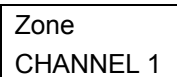
Enter the Companding mode when press the key programmed as “Companding”,

▲ It can be set as: short key: Companding, long key: off.

1. Press the programmable key once to open the Companding mode,

 will be shown,

2. Cancel the mode by pressing it again, will be


 shown.

●Scrambler

Press the key programmed as “scrambler” to prevent any third party to hear you talking on the phone.

▲ It can be set as: short key: scrambler, long key: off.

1. Press the programmable key once to open the scrambler mode,

 will be shown,

2. Cancel the mode by pressing it again,

 CHANNEL 1

will be shown.

●Battery volume checking

Display the battery power.

▲ It can be set as: short key: battery power checking, long key: off.

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1. Press the programmable key once: the battery power will be shown,
2. Press again: close the display.

● Monitoring

Press the programmed as “monitor trigger” to shut up the CTCSS、DCS、2Tone and DTMF signal, and you can listen to the signals can not be heard in normal operation, press the key again to return to normal operation.

▲ It can be set as: short key: monitor, long key: off.

1. Press the programmable key once to start monitoring, **Moni Moment ON** will be shown,
2. Press again: stop monitoring, **Moni Moment OFF** will be shown.

● Cancel squelch

Press the key, no matter what the signal or carrier wave is (including optional signal), squelch will be cancelled.

▲ It can be set as: short key: cancel squelch, long key: off.

1. Press the programmable key once to start squelch constantly,
2. If you do not press it, the squelch will still work.

● Emergency Alert

If press the top key programmed as “Emergency Alert”, you can set the warning ring according to the programming software, or send your identity or background music to your companion or the system.

▲ It can be set as: short key: emergency alert, long key: off.

1. Press the programmable key once to start alert,
2. Press it again to stop the alert.

● Back light

Turn on/off the back light.





▲ It can be set as: short key: back light, long key: off.

1. Press and hold this key, the back light is on,
2. Release it to recover the normal mode.

●Rptr/Talkarnd

When press the key programmed as “Rptr/Talkarnd”, the next transmission will be at the same frequency as at which it is received.

▲It can be set as: short key: Rptr/Talkarnd, long key: off.

1. Press the key once, Rptr/Talkarnd will be shown,
2. Press  to enter,
3. Press   to select the character you need: e.g.: Repeater Mode or Talkarnd mode,
4. Press  to confirm.

●Instantaneously select the channel

Shift to the channel you selected instantaneously, so that you can communicate at the channel you are used to.

▲It can be set as: short key: instantaneously select channel 1, long key: off.

1. Press the key once to instantaneously select the channel, e.g.: CHANN 15
2. Press again to return.

●Call 1, 2, 3, or 4

Press the side button programmed as Call 1, 2, 3, or 4 to transmit the specified code stored in the contact list. Release “Call” button, and speak to the microphone to call with the PTT button still pressed.

▲It can be set as: short key: Call 1, long key: off.

1. Press the key once to make a call(within the current channel), and will quit automatically after the call.



●Voice Annunciation of Channel Number

Select or delete the voice annunciation function.

●Adjust display contrast

You can adjust the display contrast as per your need.

▲It can be set as: short key: display contrast, long key: off.

1. Press the key once, Contrast will be shown,
2. Press   to select the character you need,

3. Press  to confirm.

● Manual programming

The dealer can open the manual programming rights of:

Channel frequency set, CTCSS, DCS.

Basic operations of programmable keys:

You can set the programmable keys with the “key set” in PC software, as follows:

▲ It can be set as: short key: display channel frequency, channel alias and channel No., long key: off.

1. Press the key once, display the channel alias, e.g.:

CHANNEL 1

2. Press it again, the channel frequency will be shown, e.g.:



401.66500

3. Press it a third time, the channel alias will be shown, e.g.:

CH 1

▲ It can be set as: short key: Zone, long key: off.

1. Press the key once, Zone No will be shown,

2. Select zone No. with  / .

3. Press  to confirm.

▲ It can be set as: short key: channel lock, long key: off.

1. Press the key once to perform channel lock, then you can not choose the

channel, will be

CHANNEL 1

shown.

2. Press it again to cancel channel lock, will be

CHANNEL 1

shown.

■ VOX

VOX function enables you to use the radio without manual operations. This function can only be set by the dealer, and you have to be equipped with the specified earphones.

Before using VOX, you must set VOX gain level. Such setting enables the radio to identify the voice volume. If the microphone is too sensitive, the background noise will trigger the radio to transmit. If the microphone is not sensitive enough, it cannot receive your voice when you speak. Make sure to adjust

VOX gain level to proper sensitivity.

■ Auxiliary Functions (programmed with PC)

◆ Time-out Timer (TOT)

TOT timer:

Time-out timer can prevent any caller from occupying one certain channel for an extended period of the time.

The radio is set with a continuously transmitting limit. If the radio is continuously transmitting longer than the time preset by the dealer, the radio will stop transmitting and warning

TOT forbidden period:

A period in which the radio is forbidden to transmit after its overtime activity.

During the period, if the PTT key is pressed, there will be a warning tone, and transmitting is forbidden.

TOT pre-warning:

The pre-warning will sound before the TOT action.

After the sound of the warning, the timer will take action when the transmitting time has gone beyond the limit.

TOT reset:

The time delay from releasing the PTT key to the resetting of the timer is limited.

The countdown will go on if the time after releasing the PTT key is shorter than the reset time.

◆ Battery Saving

The dealer can set the type of this function by programming.

If the battery saving function is on, 10 seconds after the radio hasn't receive any signals or no operation is being conducted, the radio enters battery saving mode. When a signal is received or any operation occurs, it exits battery saving mode automatically.

The types include: 1: 1, 1: 2, 1: 4 and off.

The automatic battery saving function decreases the power consumption.

◆ Voice Annunciation of Channel Number

The dealer can turn on or turn off this function by programming.

While switching to another channel, you can hear the voice annunciation of the current channel number.

◆ CTCSS/ DCS

The dealer can set CTCSS/DCS tones on radio channels, which enable you to ignore (not hear) calls

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from other irrelevant parties who are using the same channel.

When you receive a signal that has a tone different from the one set on your radio, you will not hear the signal. Likewise, signals that you transmit will only be received by parties whose CTCSS/DCS tones are the same as yours.

Note: Using a CTCSS/DCS channel doesn't mean your calls are private. If other parties' CTCSS/DCS tones are identical with yours, they can hear your calls.

■ User's resolution

◆ Busy Channel Lockout (BCL)

Busy Channel Lockout can prevent you from interfering other radios that using the same channel.

Press the PTT button when the channel is busy, the radio with BCL function active will make warning sound and prohibit transmitting. To stop the warning sound, please release the PTT button and the radio returns to receiving mode.

The dealer may provide the following two lock mode:

Carrier wave: it will be locked if there is any Carrier wave;

Carrier wave+ CTCSS/DCS: transmitting is permitted if there are matched CTCSS/DCS in the channel.

◆ Receiving squelch mode

The dealer may set the condition under which to turn on the speakers:

1. CTCSS/DCS and audio squelch: only when the CTCSS/DCS and optional signaling are patchable.
2. Audio squelch: once the optional signaling is matchable.
3. CTCSS/DCS squelch: when the CTCSS/DCS is matchable.
4. Carrier wave squelch: once there is any Carrier wave.
5. CTCSS/DCS and audio squelch: when the CTCSS/DCS is matchable, or when optional signaling are matchable.

◆ DTMF signaling

The dealer can set this function by programming.

There are 4 systems of which the parameters can be set, e.g.: group call ID No., * and # sound, etc.

After set a DTMF code in the "code sequence", select DTMF system in the "DTMF code", then select the correspondent DTMF code cable in the "user's resolution" and transfer it with PTT. Set a DTMF code in the "deencoding sequence", add the sequence into the decoding cable in "DTMF decoding", then select the correspondent decoding cable. The dealer may also set the "decoding replay".

◆ 2TONE signaling

The dealer can set this function by programming.

There are 4 systems of which the parameters can be set, e.g.: the duration of the first and the second tone, the duration of the long tone and audio spacing, etc. Select the audio frequency (3106.0~288.0hz step size 0.1hz) in “encoding sequence”, and whether the tones sent are long or two tones, select 2TONE system in “2TONE List”, then select the correspondent 2TONE code cable in the “user’s resolution” and transfer it with PTT. Select the audio frequency (3106.0~288.0hz step size 0.1hz) in “decoding sequence”, and whether the tones received are long or two tones, then select the correspondent decoding cable in the “user’s resolution”. The dealer may also set the “decoding replay”.

◆ Transmit start/over signaling (PTT ID)

The identify signal of transmit start/over are used to maintain or disconnect some repeaters or phone system.

“Transmit start” is used to connect routine repeaters and auxiliary facilities. If the ID transmitted is

matchable with that of the repeaters, the repeaters and auxiliary facilities are available.

“Transmit over” is used to disconnect routine repeaters and auxiliary facilities. If the ID transmitted is matchable with that of the repeaters, the repeaters and auxiliary facilities are disconnected.

■ Problems and troubleshooting

No.	Problems	Solution
1	No display after switched on.	A. Battery power may be insufficient. Recharge or replace the battery pack. B. The power switch may be broken, replace the switch. C. CPU may be broken, replace the IC. D. Regulator tube Q45 may be broken, replace the IC.
2	Phase locked loop unlocked (with “tick, tick”)	A. Phase locked loop Crystal Oscillator X1 may be broken, replace it. B. Oscillator tube may be broken, replace it. C. Phase locked loop IC2 may be broken, replace the IC.
3	Cannot transmit.	A. The frequencies of both users are not the same, select the same frequency channel again.

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		<p>B. The CTCSS/DCS signaling of both users are not the same, set it with PC.</p> <p>C. Beyond the efficient communication range.</p>
4	No signal	<p>A. Make sure the antenna is well connected.</p> <p>B. Low sensibility, trimming "computer test mode".</p> <p>C. HF amplifier may be broken, replace it.</p> <p>D. The squelch level is too high, which makes the squelch unable to switch on, reset it by PC.</p> <p>E. Mixer tube Q19 may be broken, replace the tube.</p> <p>F. Frequency Modulation IC4 may be broken, replace the IC.</p>
5	The transmitting red light is on, but no voice is heard	<p>A. Power-amplifier tube, no power output, replace the tube.</p> <p>B. Replace the microphone if it is broken.</p> <p>C. Operational Amplifier IC14 may be broken, replace it.</p>
6	Receiving green light is on, but no voice is heard	<p>A. Replace the speaker if it is broken.</p> <p>B. Audio power amplifier IC9 may be broken, replace it.</p> <p>C. Switch Tube Q48 may be broken, replace it.</p> <p>D. Operational Amplifier IC6 may be broken, replace it..</p>
7	Abnormal programming	<p>A. Make sure the wires are well connected.</p> <p>B. Abnormal output of the RS-232 serial port of the computer, check the computer .</p> <p>C. Abnormal connection of MIC and SPK jack, check the jack.</p>

■ Major Specifications

General specification

Model	PT6500-02
Frequency	400 to 470MHz
Modulation	16KΦF3E/11KΦF3E
Number of Channels	128
Channel Spacing	12.5/20 kHz
MF	1 st MF: 51.65MHz 2 nd MF: 450kHz
Working Voltage	7.5V cathode Grounding
Working Temperature	-25°C~ +55°C
Antenna	50Ω

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Microphone Impedance	2.2kΩ
Battery (Standard) Model	Model: KB-36C, li-ion battery DC 7.4V , 1750mAh time of use: 8 hours (5: 5: 90 period)
Dimensions	56X120X35mm
Weight	413 (with battery and antenna)

■ Status setting (by the dealer)

Model: _____ Serial No.: _____

a) Channel setting:

Channel No.	Receiving frequency	Transmitting frequency	CTCSS/DCS decoding	CTCSS/DCS encoding	Power	Band width	Scanning	BCL
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								

128								

b) Optional function:

2. 1 Time-out timer (T
OT):

15—600 s

2. 2 Squelch level:

1—9

2. 3 Voice annunciation:

On Off 2. 4 Battery saving:

Off 1: 1 1: 2 1: 4

c) Auxiliary functions button setting:

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Top button

None	<input type="checkbox"/>	<input type="checkbox"/>
Voice reporting selector	<input type="checkbox"/>	<input type="checkbox"/>
Rptr/Talkarnd	<input type="checkbox"/>	
Call1/2/3/4	<input type="checkbox"/>	
Separate working	<input type="checkbox"/>	
Emergency alert	<input type="checkbox"/>	
Cancel emergency alert	<input type="checkbox"/>	
Rewind	<input type="checkbox"/>	
Scanning	<input type="checkbox"/>	
High/low power shift	<input type="checkbox"/>	
Squelch level adjuster	<input type="checkbox"/>	
Monitoring open/Cancel	<input type="checkbox"/>	
Squelch open/Cancel	<input type="checkbox"/>	
Lock key	<input type="checkbox"/>	
Companding	<input type="checkbox"/>	
Scrambler	<input type="checkbox"/>	
Battery volume	<input type="checkbox"/>	

Side button1

None	<input type="checkbox"/>	<input type="checkbox"/>
Voice reporting selector	<input type="checkbox"/>	<input type="checkbox"/>
Rptr/Talkarnd	<input type="checkbox"/>	
Call1/2/3/4	<input type="checkbox"/>	
Separate working	<input type="checkbox"/>	
Rewind	<input type="checkbox"/>	
Scanning	<input type="checkbox"/>	
High/low power shift	<input type="checkbox"/>	
Squelch level adjuster	<input type="checkbox"/>	
Monitoring open/Cancel	<input type="checkbox"/>	
Squelch open/Cancel	<input type="checkbox"/>	
Lock key	<input type="checkbox"/>	
Companding	<input type="checkbox"/>	
Scrambler	<input type="checkbox"/>	
Battery volume	<input type="checkbox"/>	

Side button2

None	<input type="checkbox"/>	<input type="checkbox"/>
Voice reporting selector	<input type="checkbox"/>	<input type="checkbox"/>
Rptr/Talkarnd	<input type="checkbox"/>	
Call1/2/3/4	<input type="checkbox"/>	
Separate working	<input type="checkbox"/>	
Rewind	<input type="checkbox"/>	
Scanning	<input type="checkbox"/>	
High/low power shift	<input type="checkbox"/>	
Squelch level adjuster	<input type="checkbox"/>	
Monitoring open/Cancel	<input type="checkbox"/>	
Squelch open/Cancel	<input type="checkbox"/>	
Lock key	<input type="checkbox"/>	
Companding	<input type="checkbox"/>	

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Scrambler	<input type="checkbox"/>
Battery volume	<input type="checkbox"/>

Warning:

Compliance with RF Energy Exposure Standards

Your two-way radio is designed and tested to comply with a number of national and international standards and guidelines (listed below) regarding human exposure to radio frequency electromagnetic energy.

This radio complies with the IEEE (FCC) and ICNIRP exposure limits for occupational/controlled RF exposure environment at duty cycles of up to 50% talk-50% listen and should be used for occupational use only. In terms of measuring RF energy for compliance with the FCC exposure guidelines, your radio radiates measurable RF energy only while it is transmitting (during talking), not when it is receiving (listening) or in standby mode.

Note: The approved batteries supplied with this radio are rated for a 5-5-90 duty cycle (5% talk-5% listen-90% standby), even though this radio complies with the FCC occupational RF exposure limits at duty cycles of up to 50% talk.

Your two-way radio complies with the following of RF energy exposure standards and guidelines:

- United States Federal Communications Commission, Code of Federal Regulations; 47CFR part 2 sub-part J
- American National Standards Institute (ANS)/Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1992
- Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1999 Edition
- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1998
- Ministry of Health (Canada) Safety Code 6. Limits of Human Exposure to Radiofrequency Electromagnetic Fields in the Frequency Range from 3kHz to 300GHz, 1999
- Australian Communications Authority Radiocommunications (Electromagnetic Radiation-Human Exposure) Standard 1999 (applicable to wireless phones only)

Operational Instructions and Training Guidelines

To ensure optimal performance and compliance with the occupational/controlled environment RF energy exposure limits in the above standards and guidelines, users should transmit no more than 50% of the time and always adhere to the following procedures:

Transmit and Receive

To transmit (talk), push the Push-To-Talk (PTT) button; to receive, release the PTT button.

Hand-held radio operation

Hold the radio in a vertical position with the microphone one to two inches (2.5 to 5 cm) away from the lips.

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Body-worn operation

- Always place the radio in an approved clip, holder, holster, case, or body harness for this product. Use of non- approved accessories may exceed FCC RF exposure guidelines.
- If you do not use a approved body-worn accessory and are not using the radio in the intended use position in front of the face, then ensure the antenna and the radio are kept 2.5 cm (one inch) from the body when transmitting.

Antennas & Batteries

- Use only approved, supplied antenna or approved replacement antenna. Unauthorized antennas; modifications, or attachments could damage the radio and may violate FCC regulations.

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- Use only approved, supplied batteries or approved replacement batteries. Use of non -approved batteries may exceed FCC RF exposure guidelines.

Approved Accessories

For a list of approved accessories see the accessories page of this user manual or visit the following website which lists approved accessories

FCC Compliance

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.