PT6500 User's Manual

CONTENTS

FCC INFORMATION

Warning: Modifying, tampering and/or adjusting this or replacement of any transmitter component (crystal, semiconductor, etc.) in this unit could result in a violation of the rules. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Warning:

PT6500-02 is a a occupational equipment. And it operate with a duty factor not exceeding 50%. The EUT cannot worn on the body.

The us version of this transmitter operates solely on us frequencies. The user is not able to select on non-us frequencies.

▌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
Charger	1
Power adapter	1
Hand strap	1
User's Manual	1

天线	Power adapter 电源适配器	Battery 电池
Charger 充电座		
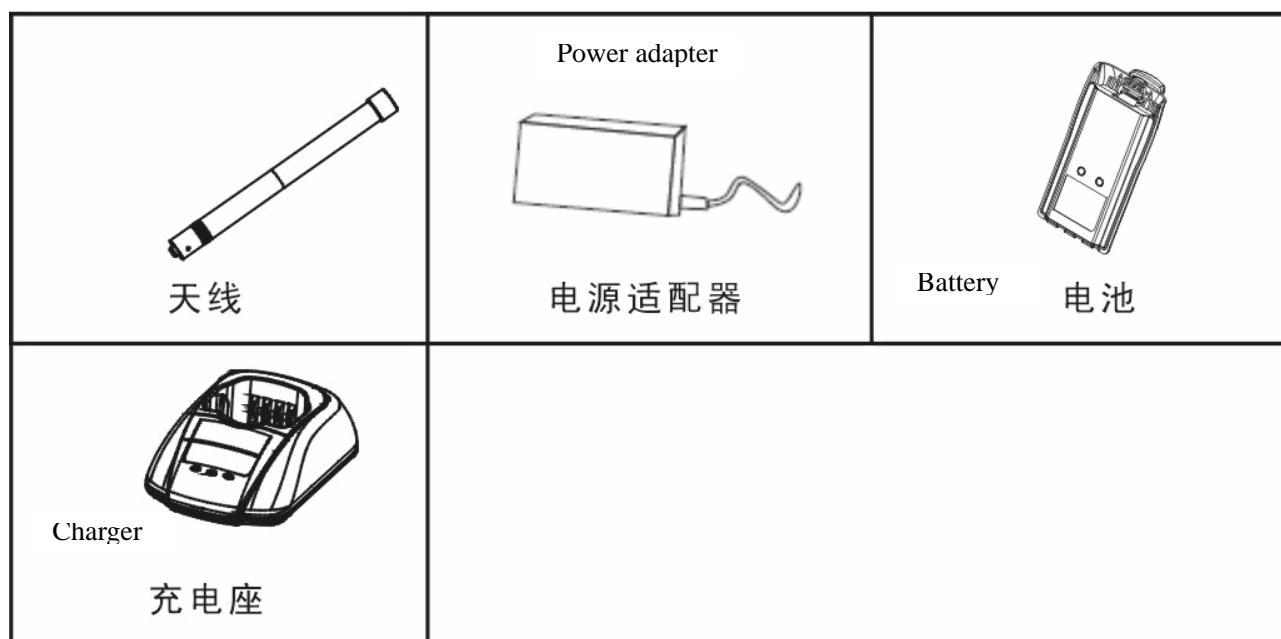
▌Preparation

◆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.

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.
* The KB-36A Ni-MH 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.
* When you use the KB-36A battery, and the transceiver is in the low-pressure warning

mode, recharge the battery before use. Do not power on by force, otherwise, its life will be shortened or it will be damaged.

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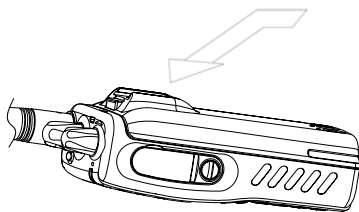
◆Installing/Removing the battery pack

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.
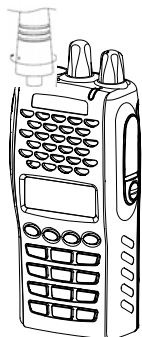
Getting acquainted
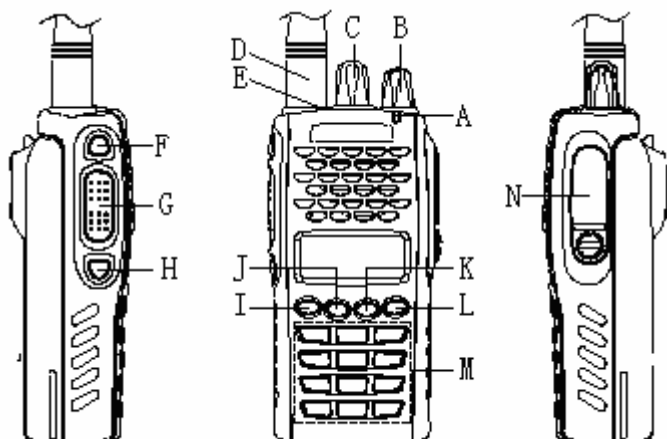
The functions of the components are as follows:

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 P1✖

   Return and delete button in the menu.

J. Button P2

   Select Button.

K. Button P3

   Select Button.

L. Button ✓P4

Enter and Confirm Button.

M. Numeric keypad

   Explanation for the screen
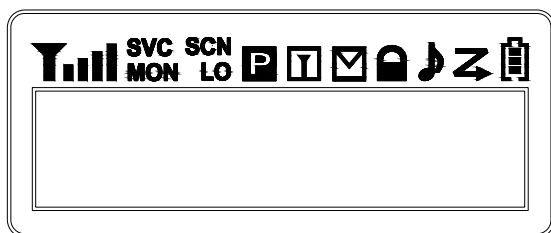
Icon	Description
	Signal intensity
	SVC
	Compandor
	Disturbance Frequency
	Busy channel lockout
	Scanning
	Key lockout
	Signal reminder is programmed
	Battery volume, flashes when the battery power goes too low

图 标	说　　明
Y.ıll	显示信号强度
SVC	表示个人工作模式
P	表示压扩
T	表示扰频
✉	表示信道锁定
Z	表示扫描
🔒	表示键盘锁定
♪	表示铃声提示功能开启
🔋	指示电池容量,当电池电量低时符号闪烁

⑤ 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.
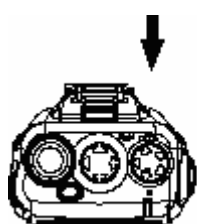
2. Adjust Volume

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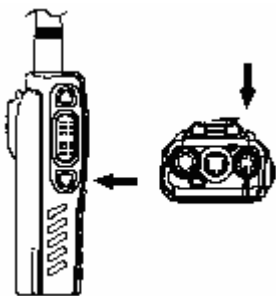
3. **Select a Channel**

Rotate the channel selector to select channels. You will hear voice from the speaker while receiving proper signals.
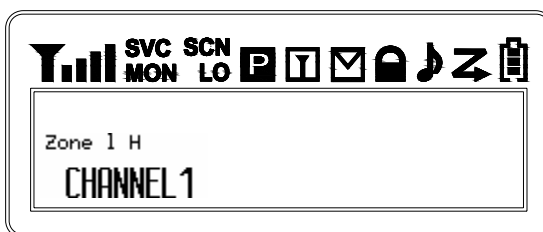
As shown in the above right figure:

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, M for middle power while

L for low power.

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

4. Make a Call

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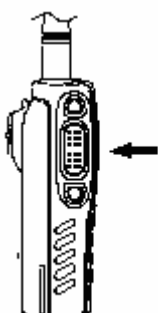
5. Receive a Call

Release the PTT button to receive a 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 from your own system.

6. Operation on menu: press "✔P4"button to enter the menu or confirm any contents; press "P1✖" button to return to the previous menu or cancel the set. When entered the menu, select the sub-menu with the "channel selector", "P2" "or "P3".

The menu is as follows :
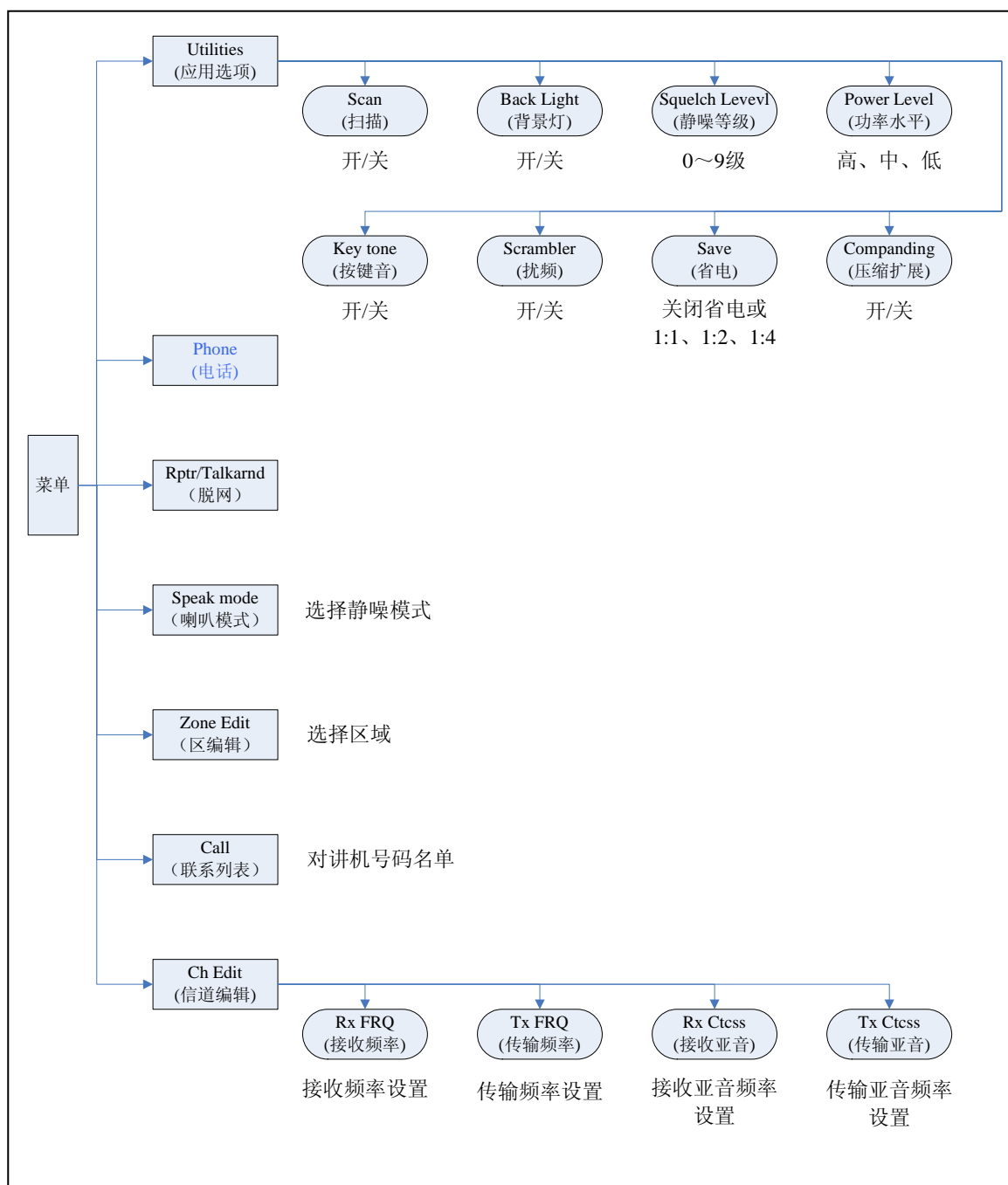
The operations are as follows:

Set scanning:

1. As shown: in CH⎵⎵⎵1 , press ✔P4 , then

utilities is shown;

2. Press ✔P4, then scan is shown;

3. Press ✔P4, then enter selecting scan;

4. Select Scan On or Scan Off with P2 / P3 , then press ✔P4 to confirm it.

If can not enter that way, you have to set in PC communications;

Set back light:

1. As shown: in CH⎵⎵⎵1 , press ✔P4 , utilities is shown.

2. Press ✔P4 to enter select mode,

3. Press P2 /P3 , and Back Light is shown,

4. Press ✔P4 to select On or Off,

5. Select On or Off with P2 /P3 , press ✔P4 to confirm.

Set the squelch level:

1. As shown: in CH⎵⎵⎵1 , press ✔P4 , utilities is shown.

2. Press ✔P4 to enter select mode,

3. Press P2 /P3 , then Squelch Level is shown,

4. Press ✔P4 to select squelch level, e.g., Leve 0

5. Change the squelch level with P2 /P3 , then press ✔P4 to confirm.

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Set power level (high/middle/low):

1. As shown: in CH   1, press ✔P4 , utilities is shown.

2. Press ✔P4 to enter select mode,

3. Press P2 /P3, then Power Level is shown,

4. Press ✔P4 to select, e.g., Power Low,

5. Change the power level with P2 /P3, then press ✔P4 to confirm.

Set Companding：

1. As shown: in CH   1, press ✔P4 , utilities is shown.

2. Press ✔P4 to enter select mode,

3. Press P2 /P3, and Companding is shown,

4. Press ✔P4 to select Companding,

5. Select On or Off by P2 /P3, press ✔P4 to confirm.

Set saving：

1. As shown: in   CH   1, press ✔P4 , utilities is shown.

2. Press ✔P4 to enter select mode,

3. Press P2 /P3, and Save is shown,

4. Press ✔P4 to select Save 1：4,

5. Chang the save percentage with P2 /P3, press ✔P4 to confirm.

Set scrambler：

1. As shown: in CH   1, press ✔P4 , utilities is shown.

2. Press ✔P4 to enter select mode,

3. Press P2 /P3, and Scrambler is shown,

4. Press ✔P4 to select, e.g., Scrambler Off,

5. Select On or Off by P2 /P3, press ✔P4 to confirm.

Set key tone：

1．As shown: in CH 1, press ✔P4 , utilities is shown.

2. Press ✔P4 to enter select mode,

3. Press P2 /P3, and Key Tone is shown,

4. Press ✔P4 to select Off or On,

5. Select On or Off with P2 /P3, press ✔P4 to confirm.

Set Rptr/Talkarnd：

1．As shown: in CH 1, press ✔P4 to enter select mode,

2. Press P2 /P3, and Rptr/Talkarnd is shown,

3. Press ✔P4 to select the mode,

4. Select Repeater Mode or Talkarnd mode with P2 /P3, press ✔P4 to confirm.

Set speak On mode：

1．As shown: in CH 1, press ✔P4 to enter select mode,

2. Press P2 /P3, and Speak Mode is shown,

3. Press ✔P4 to select the speak on mode,

4. Select with P2 /P3, press ✔P4 to confirm.

Set zone mode：

1．As shown: in ⬚CH   1⬚, press ✅P4 to enter select mode,

2. Press P2 /P3, and ⬚Zone Edit⬚ is shown,

3. Press ✅P4 to select the zone mode,

4. Select ⬚Zone No⬚ with P2 /P3, press ✅P4 to confirm.

Set call list：

1．As shown: in ⬚CH   1⬚, press ✅P4 to enter select mode,

2. Press P2 /P3, and ⬚Call⬚ is shown,

3. Press ✅P4 to select the call list,

4. Select with P2 /P3, press PTT to transmit.

Set Rx FRQ：

1．As shown: in ⬚CH   1⬚, press ✅P4 to enter select mode,

2. Press P2 /P3, and ⬚Ch   Edit⬚ is shown,

3. Press ✅P4 to select

Ch   alias
CHANNEL 1

4. Press P3,

Rx   FRQ
401.660000

is shown, enter the set of Rx FRQ,

5．Set the Rx FRQ value with the keypad,

6. Press P1✗ to delete, and press ✅P4 to confirm.

Set Tx FRQ：

1．As shown: in ⬚CH   1⬚, press ✅P4 to enter select mode,

2. Press P2 /P3, and ⬚Ch   Edit⬚ is shown,

3. Press ✅P4 to select

Ch   alias
CHANNEL 1

4. Press [P3], | Tx FRQ 401.660000 | is shown, enter the set of Tx FRQ,

5．Set the Tx FRQ value with the keypad,

6. Press [P1✗] to delete, and press [✔P4] to confirm.

Set Rx CTCSS/DCS：

1．As shown: in [CH   1], press [✔P4] to enter select mode,

2. Press [P2] /[P3], and [Ch   Edit] is shown,

3. Press [✔P4] to select | Ch   alias CHANNEL 1 |

4．Press [P3],   is | Rx CTCSS 401.660000 | shown, enter the set of Rx CTCSS/DCS FRQ,

5．Set the Rx FRQ value with the keypad,

6. Press [P1✗] to delete, and press [✔P4] to confirm.

7. | ✳ | stands for the radix point, press [#] to convert among CTCSS、DCS and

reverse DCS.

Set Tx CTCSS/DCS：

1．As shown: in [CH   1], press [✔P4] to enter select mode,

2. Press [P2] /[P3], and [Ch   Edit] is shown,

3. Press [✔P4] to select | Ch   alias CHANNEL 1 |

4．Press [P3],   is | Tx CTCSS XXXX | shown, enter the set of Tx CTCSS/DCS FRQ,
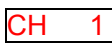
5．Set the Tx FRQ value with the keypad,
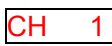
6. Press [P1✗] to delete, and press [✔P4] to confirm.

7. ∗ stands for the radix point, press # to convert among CTCSS、DCS and

reverse DCS.

Set contact list：

1. As shown: in CH 1, press ✔P4 to enter select mode,

2. Press P2 /P3 , and contact list is shown,

3. Press ✔P4 to select,

4. Select the address cable of the call to be made with P2 /P3 ,

5. Check the alias or address code by turning the knob,

6. Key in the address code of the person you are calling,

7. Press ✔P4 to transmit the current contact list.

Set status:

1. As shown: in CH 1, press ✔P4 to enter select mode,

2. Press P2 /P3 , and status is shown,

3. Press ✔P4 to select,

4.Select the needed status with P2 /P3 ,

5. Check the alias or address code of the status by turning the knob,

6. Press ✔P4 to select the current status.

■**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

Power selector

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

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. When carrier wave scan is enabled. 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 (P1✘) 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.
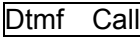
1. Press the programmable key once to start personal working;

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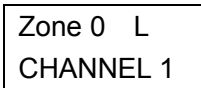
▲ It can be set as: short key: contact list, long key：off.

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

2. Press again to enter the content interface of the contact list, e.g.: Dtmf Call

3. Select the options in the contact list with (P2) /(P3)

4. Press PTT to transmit

5. Press (P1✘) to quit.

Power select

Rotate the "channel selector" to enter the "power level" menu quickly. There are high, middle and low levels.

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

1. Press the programmable key once, will be

| Zone 0   L |
| CHANNEL 1 |

shown,

2. Press it again,

| Zone 0   M |
| CHANNEL 1 |

will be shown,

3. Press it a third time，

| Zone 0   H |
| CHANNEL 1 |

will be shown.

●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 | BCL   none | shown,

2. Select the character you need with (P2) / (P3), e.g.:

| BCL   none |

| BCL   carry？ |

| BCL   carryPL？ |

3、Press (✔P4) 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

| 🔒 |
| CHANNEL |

shown,

2. Press it again, will be | CHANNEL | 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,

| Level   2 |

2.   Select squelch level with ⟨P2⟩/⟨P3⟩, e.g.:

Level	3
Level	4
Level	5

3. Press ⟨✔P4⟩ 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,

Zone P
CHANNEL 1

will be shown,

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

Zone
CHANNEL 1

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,

⊥
CHANNEL 1

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.

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 ✓P4 to enter,

3. Press P2 /P3 to select the character you need: e.g.: Repeater Mode or Talkarnd mode,

4. Press ✓P4 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 P2 /P3 to select the character you need,

3. Press ✔P4 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 P2 /P3 ,

3. Press ✔P4 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)

◆ 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

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 "deenencoding 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.

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

■ Major Specifications

General specification

Model	PT6500
Frequency	USA: 406.1-454MHz 456-470MHz EU: 406.1~430MHz 440-470MHz
RF Power	4.0W (H) /1.0W (L)
Modulation	16K8F3E/11K6F3E
Number of Channels	128
Max Antenna Gain	2.0dBi
Maximum Frequency deviation	±5.5kHz (W)/ ±2.2 kHz (N)
Channel Spacing	25 kHz/12.5kHz

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MF	1st MF：51.65MHz 2nd MF：450kHz
Working Voltage	7.5V cathode Grounding
Working Temperature	-25℃~ +55℃
Antenna	50Ω
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（TOT）：

15——600 s

2．2   Squelch level：

1——9

2．3   Voice annunciation：

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On ☐　　Off ☐ 2．4　Battery saving：

Off ☐　　1：1 ☐　　1：2 ☐　　1：4 ☐

c)　Auxiliary functions button setting:

Top button			Side button1		
None	☐	☐	None	☐	☐
Voice reporting selector	☐	☐	Voice reporting selector	☐	☐
Rptr/Talkarnd	☐		Rptr/Talkarnd	☐	
Call1/2/3/4	☐		Call1/2/3/4	☐	
Separate working	☐		Separate working	☐	
Emergency alert	☐				
Cancel emergency alert	☐				
Rewind	☐		Rewind	☐	
Scanning	☐		Scanning	☐	
High/low power shift	☐		High/low power shift	☐	
Squelch level adjuster	☐		Squelch level adjuster	☐	
Monitoring open/Cancel	☐		Monitoring open/Cancel	☐	
Squelch open/Cancel	☐		Squelch open/Cancel	☐	
Lock key	☐		Lock key	☐	
Companding	☐		Companding	☐	
Scrambler	☐		Scrambler	☐	
Battery volume	☐		Battery volume	☐	

Side button2

None	☐	☐
Voice reporting selector	☐	☐
Rptr/Talkarnd	☐	
Call1/2/3/4	☐	
Separate working	☐	
Rewind	☐	
Scanning	☐	
High/low power shift	☐	
Squelch level adjuster	☐	
Monitoring open/Cancel	☐	

Squelch open/Cancel   ☐

Lock key   ☐

Companding   ☐

Scrambler   ☐

Battery volume   ☐

Squelch open/Cancel   ☐

Lock key   ☐