Kyosey

Ky105/405 Portable Transceiver

User's Manual

Ky105/405 Quick Reference

Channel Selector

Power/Volume Knob

PTT Button

Status LED

Microphone

Side Button 1	**SHORT**:
	LONG:
Side Button 2	**SHORT**:
	LONG:

Note: Fill in blank with the Button's Function
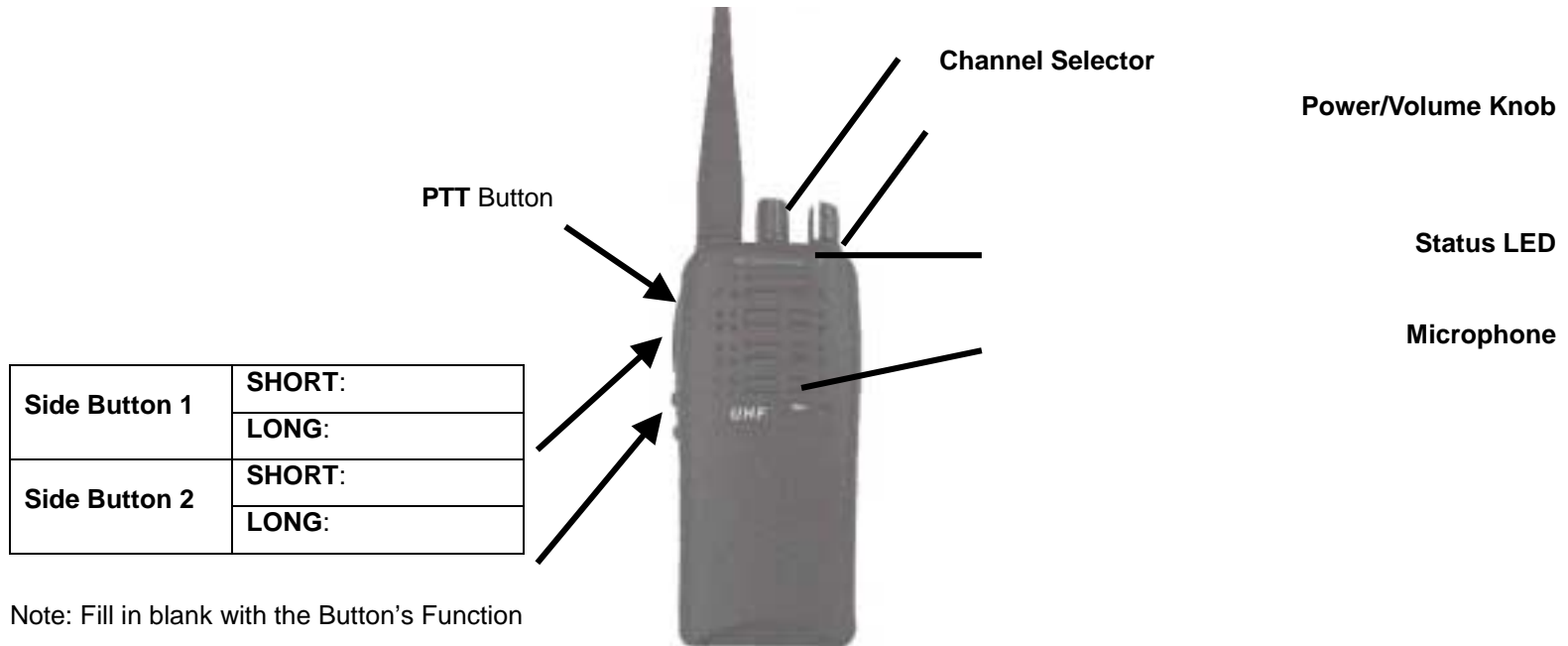
Turning Power On

Rotate the **Power/Volume Knob** clockwise to turn on the transceiver. If the **LED Indicator** light GREEN to RED then OFF, and a high voice beep means that the transceiver is ok, otherwise, a low long beep means that Self-Tests failure.

Turning Power Off

Rotate the **Power/Volume Knob** anti-clockwise until a click is hears to turn the transceiver off.

Adjusting Volume

1. If there is no receive audio, you need hold down the

Monitor button to open the squelch, so you can hear background noise.

2. Continue to hold the Monitor Button and rotary the **Power/Volume Knob** to desired volume level, turn clockwise to increase or anti-clockwise to reduce the volume.

3. Release the Monitor Button.

To Select a Channel

Rotate the **Channel Selector Knob** to select the channel number.

To Transmit

1. Rotate the **Channel Selector Knob** to select a desired channel.

2. Press and hold down **PTT** button, hold the transceiver about 2.5 ~ 5cm (1 to 2 inches) from your lips to microphone and speak in your normal speaking voice.

3. Release the **PTT** button to return to the receive mode.

To Receive

1. Turn on power.

2. Adjust the volume

3. Select a desired channel

4. When a signal with proper or matching sub-tones is received, you will hear the transmissions from other transceivers. You may need to adjust the volume more precisely.

Deleting Nuisance Channel

1. While transceiver locked onto unwanted channel in the SCAN Mode, press the "Nuisance Delete" Button until you hear two beeps.

2. Release the "Nuisance Delete" Button.

Note:

"Nuisance Delete" can only be used if your dealer has programmed one function button for it.

Ky105/405 Quick Reference

LED Indicator

LED indicate / color	Explain
Light "RED" continuously	Transmitting a message
Light "GREEN" continuously	Receiving a signal
"GREEN" flash	Scanning
Light "ORANGE" continuously	A sub-tone code is received that is matching the code programmed in your radio. The code may be a CTCSS code or DCS code.

Beep for Side Button Operating

Button Function	Positive Beep	Negative Beep
Scan	Scan ON	Scan OFF
Power	High Power	Low Power
Squelch	Tight squelch	Normal squelch
Repeater/Talk-around	Without using a repeater	Using a repeater

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CONTENTS

Introduction

Channel Selector Knob

Selects operating channels.

Power/Volume Knob

Switches the transceiver ON or OFF. Also increases or decreases the transceiver volume.

Introduction

LED Indicator

Indicate radio's status

LED indicate / color	Explain
Light "RED" continuously	Transmitting a message
Light "GREEN" continuously	Receiving a signal
"GREEN" flash	Scanning
Light "ORANGE" continuously	A matching sub-tones code is received. It can be a CTCSS code or DCS code.

Microphone

Hold radio upright while speaking clearly into the microphone.

PTT (Push-to-Talk) Button

This button is used to switch between transmission and reception. To transmit, hold in this button. To receive, just release this button.

Side Button 1 (Programmable)

Side Button 2 (Programmable)

There are two Side Button in your radio and they can be programmed with different function by your dealer.

Please contact your dealer to know what function programmed for your side button.

Introduction

Press the side button as one of three methods of operation:

- **SHORT** means click the button then release it, or
- **LONG** means press the button for the long time then release it, your dealer may programmed the long time different, or
- **HOLD** down the button, while you need check the status of radio or adjust the radio's parameter, just hold down the button.

You may operate the side button as **SHORT** or **LONG** to activate one of its functions, but not two for once pressing.

Button Function	SHORT/LONG	HOLD
Monitor	-	Monitor activity on your selected channel
		-
Scan	To starts scanning from current channel or quit scanning	-
Nuisance Delete	When radio is scanning, you can temporary remove the unwanted channel from the scan list.	-
Power	The output power is toggled between low and high.	-
Repeater/Talk-around	Using a repeater or allow communication direct with other transceivers without using a repeater.	-
Squelch	To toggle the squelch level between normal and tight.	-

Accessory Connector Cap

Introduction

BEEP

1. Power ON Self Tests Success Beep

2. Power ON Self Tests Failure Beep

3. VOX Power ON Beep (High Sensitivity)

4. VOX Power ON Beep (Low Sensitivity)

5. Positive Beep

6. Negative Beep

Note:　　　　　Mark means high voice beep.

　　　　　Mark means low voice beep

Introduction

Beep for Side Button

Some beeps of the programmed **Side Button** are exchangeable, it means the function are exchangeable.

Side Button Function	**Positive Beep**	**Negative Beep**
Scan	Start scanning	Quit scan mode
Power	High output power	Low output power
Squelch	Tight squelch	Normal squelch
Repeater/Talk-around	Without using a repeater	Using a repeater

BATTERY INFORMATION

FOR LONGEST BATTERY LIFE AND USING KNACKS

Three types rechargeable batteries can be used as the supply power, Nickel Cadmium (Ni-Cd), Nickel Metal Hydride (Ni-MH) and Lithium Ion (Li-ion).

To assure the highest performance and longest cycle life, should you properly use the battery pack comply with following simple rules:

- To enable you to obtain maximum battery capacity, a new battery must be fully charged for at least 14 to 16 hours continuously.
- Using a non- Kyosey brand charger may damage your battery, also will expire its warrant.
- You can charge the battery that is connected to a transceiver, but please turn the radio off to fully charge it.
- If possible, store and charge the battery at a room temperature (25℃). Do not charge a cold battery that is at 10℃ or

below, if so may cause the battery to leak and become an inefficacious battery.

- Don't charge a hot battery that is at above 35℃. This will decrease cycle life.

  Note: The Kyosey brand Quick Charger built-in a temperature sensor to ensure your battery charged within above temperature range.

- New batteries can be stored up to two years without significant cycle loss. Store new / unused batteries at room temperature in a cool, dry area.

- A battery that has been in storage should be recharged at least 14 to 16 hours continuously before being put into service.

- Don't return fully charged batteries to the charger for an "extra boost." This will significantly reduce cycle life.

- Don't leave your transceiver and battery in the charger when not charging. Continuous charging will shorten battery life (Don't use your charger as a transceiver stand).

- For optimum battery life and operation, use Kyosey brand chargers only. Our batteries and chargers have been designed to operate as an integrated energy system.

INSTALLING BATTERY PACK

1. Put the battery pack onto the bottom of the transceiver.
2. Gently push the battery pack toward the transceiver back edge until you hear a click.

REMOVAL OF BATTERY

1. Before removing the battery, you must turn the radio off.
2. Press down the battery release button located in the back of the battery pack.
3. Remove the upside of the battery pack separate from the transceiver body and take away then.

Getting Started

INSTALLING THE ANTENNA

Fasten the antenna to the radio by placing the threaded end of the antenna into the antenna connector. Rotate the antenna clockwise until tight.

EMOVING THE ANTENNA

Turn the antenna in an anti-clockwise direction until it disengages from the transceiver.

ATTACHING THE BELT CLIP

1. Align mounting rails of the radio with the grooves of belt clip.
2. Slide the belt clip downwards until it clicks into place.

release tab

REMOVING THE BELT CLIP

1. Insert the end of a key to push the release tab of radio away.
2. Slide the belt clip upwards.

WITCHING POWER ON/OFF

- To switch ON your transceiver, rotate the **Power/Volume Knob** clockwise. If the transceiver works proper, **LED Indicator** will light GREEN, then RED and finally OFF, and you can hear the Self-Tests success beep, otherwise the Self-Tests failure beep may be heard.

- To switch OFF the transceiver, turn the **Power/Volume Knob** fully anti-clockwise until a "click" is heard.

ADJUSTING THE VOLUME

Basic Operations

- If there is no receive audio, you need hold down the Monitor button to open the squelch, so you can hear background noise.
- Continue to hold the Monitor Button and rotary the **Power/Volume Knob** to desired volume level, turn clockwise to increase or anti-clockwise to reduce the volume.
- Release the Monitor Button.

SELECTING A CHANNEL

The 16-channel provide for regular operating channel. Use the **Channel Selector Knob** to choose your desired channel. You should not select a channel unless it is programmed in the transceiver. Your dealer can best explain how channel had programmed.

- Rotate the **Channel Selector Knob** to select your desired channel number.

TRANSMITTING A MESSAGE

1. Turn ON your transceiver.
2. Rotate the **Channel Selector Knob** to select a desired channel.
3. Press and hold down **PTT**, hold the transceiver about 2.5 ~ 5cm (1 to 2 inches) from your lips to microphone and speak in your normal speaking voice.
4. Release the **PTT** button to return to the receive mode.

Basic Operations

RECEIVING A MESSAGE

1. Turn your transceiver ON.

2. Adjust the volume

3. Select a desired channel

4. When a signal with proper or matching sub-tones is received, you will hear the transmissions from other transceivers; you may need to adjust the volume more precisely.

Advanced Operations

REPEATER/TALK-AROUND

At following condition, the Talk-around function will make you can talk directly to other transceiver without using a repeater:

- If the repeater is deactivate, or
- You are out of the repeater range, but you can directly talk to other transceiver.

To toggle Talk-around ON or OFF, your dealer must program a **Side Button** for the "**Repeater/Talk-around**" function.

Pressing the **Repeater/Talk-around** button, if you hear the **Positive Beep**, your transceiver is without using a repeater. Others, for the **Negative Beep**, your transceiver is using a repeater.

SETTING SQUELCH LEVEL

Squelch acts as a kind of filtering system, which control the amount of signals the transceiver receives. Setting the transceiver to the **Tight Squelch**, you can avoid some unwanted signals or noise. But you may not receive a weak signal far from you. So you should select the **Normal Squelch** for it.

Pressing the **Squelch** button to select the squelch level between **Tight** and **Normal**.

- The **Positive** Beep means your transceiver is **Normal Squelch.**
- The **Negative Beep** means your transceiver is **Tight Squelch**.

SELECTING OUTPUT POWER

Each channel independently programmed for either low power or high output power. However, you can change the output power by yourself.

- With high output power, your signal may transmit farther.
- Selecting low power conserves the battery if you can reliably communicate with others.

Advanced Operations

Each time you pressing the **Power Button**, the output power is toggle between **LOW** and **HIGH**.

- The **Positive Beep** means output power is **HIGH**.
- The **Negative Beep** means output power is **LOW**.

HANDSFREE TRANSMISSION (VOX)

VOX (Voice Operated eXchange) is an automatic system witch allows you to automatically switch the transmission in hands free mode just by speaking in the built-in microphone of a headset.

VOX OPERATIONS

To set your transceiver to VOX model, you have to:

1. Turn OFF your radio, then
2. Switch on the radio keeping pressed the **Side Button 1**.
3. Connect the optional headset with built-in microphone to the microphone connector located on the transceiver's side.
4. Ensure that the headset's built-in microphone is located close to the side of your mouth.

None: **PTT** button is disabled during VOX.

SELECTING VOX SENSITIVITY

To change the VOX sensitivity between low and high, you should

1. Turn OFF your radio, then
2. Switch on the radio keeping pressed the **Side Button 2**.

Advanced Operations

SCAN

Scan operation tells the radio to monitor a number of channels where are some activities. Your dealer can program more than 16 channels on the scan list.

When scanning, the transceiver checks each channel for activity and only stops on a channel if a signal is present.

SCAN OPERATION

To toggle scan ON/OFF by using the **Side Button** which programmed for "**SCAN**".

1. Press the "**SCAN**" button to begin scanning.
2. Press the "**SCAN**" button to stop scanning while the radio works at scan model.

Note: The **LED Indicator** flashes the GREEN when scanning.

TALKBACK

If the "Talkback" function is active, direct you can communicate with others who call you just before the scan resume time finish. Your dealer may tell you more detail about this function.

DELETE A NUISANCE CHANNEL

When the transceiver scans to a channel that you do not wish to hear, you can temporarily remove the channel from the scan list using the Nuisance Channel Delete feature.

Advanced Operations

 While the transceiver locked onto unwanted channel, press the "**Nuisance Delete**" Button until you hear two beeps.

 Note: If the **priority** function is active by your dealer, you cannot remove the priority channel from the scan list. The last channel cannot delete from the scan list too.

Note: To add a deleted nuisance channel back into the scan list, you must restart the radio.

PRIORITY FUNCTION

 The priority function would spend more time to monitor the priority channel during scanning. Your dealer can program the priority function using the CPS software.

PRIORITY FUNCTION	SCAN SEQUENCE
Activity	ch1 ➞ ch2 ➞ ch3 ➞ ch4 … ch1
Inactivity	ch1 ➞ ch2 ➞ ch1 ➞ ch3 ➞ ch1 ➞ ch4 ➞ ch1