

PUXING

PX-2R Professional
FM Transceiver
MINI COMPACT RADIO

USER'S MANUAL



To Customers

Thank you very much for using our FM VHF/UHF Two Way Radio. This radio of modern design is reasonable structure with stable functions. It is designed to meet customer's needs for the high quality with easy operation and perfect capability.

We believe you are pleased with the finished shape and the reasonable price.

This manual is suitable for using the model of PX-2R.

| | | | | | |
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- Before use this radio may need get local government authorization.
- DO NOT operate the radio without a proper antenna attached, as this may damage the radio and may also exceed exposure limits
- Refer service to qualified technicians only.
- Turn off the radio while taking on fuel or while parked in a gasoline service station.
- Do not expose the radio to long periods of direct sunlight, nor place it close to heating appliances.
- If it appears that the radio diffuses peculiar smell or smoke, please shut off its power immediately, then contact with the nearest dealer.
- Don't keep the radio transmitting too long .It may be too hot to hurt body or damage the radio itself.
- Please turn off the radio before entering the inflammable and explosive environment.


02 CHECKING EQUIPMENT

Welcome to use our radio. Please check if any damage to the packing box before use. Carefully unpacks the radio. We recommend that you identify the items listed in the following table. If any items are missing or have been damaged during shipment, please inform the seller.



SUPPLIED ACCESSORIES

| ITEMS | QUANTITY |
|---------------------|----------|
| Radio | 1 |
| Rubber Antenna | 1 |
| Li-ion Battery pack | 1 |
| Adaptor | 1 |
| USB Cable | 1 |
| Belt Clip | 1 |
| Users' Manual | 1 |
| Warranty Card | 1 |



Charging Operation

If the radio indicator displays , it means the battery pack is out of power, please charge it.

Please always use the original charger. The charger's indicator shows the charging status below.

| INDICATOR DISPLAY | STATUS |
|---|-----------|
|  TWINKLING | CHARGING |
|  FULL | COMPLETED |

Please charge the battery pack as follow:

- Put the plug of the transformer into the AC socket.
- Connected the DC connector of the transformer into DC hole of radio
-  is twinkling, it means the radio begins to charge.
-  shows full and not twinkling again, it means charging is completed.

- Don't carry the radio by the antenna or microphone directly.
- Use a soft, clean, dry cloth to clean the radio.
- Please cover the speaker/microphone jacks with the supplied cover when the radio is not in used.
- The keypad, knobs and case will become dirty after long use; you can use the soft detergent and cloth to clean it.

INSTALLING / REMOVING THE BATTERY PACK

Match the three metal pins of the battery pack with the corresponding guides on the back of the radio then slide it (image 1). Push the back cover until a click sounds (image 2).

Turn off radio's power before remove the battery pack. Push down the release latch (image 3) and slide the back cover away from the radio (image 4). And then take out battery pack

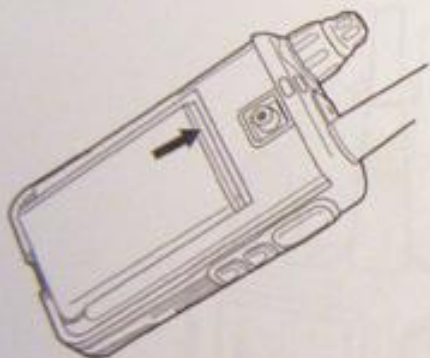


Image 1

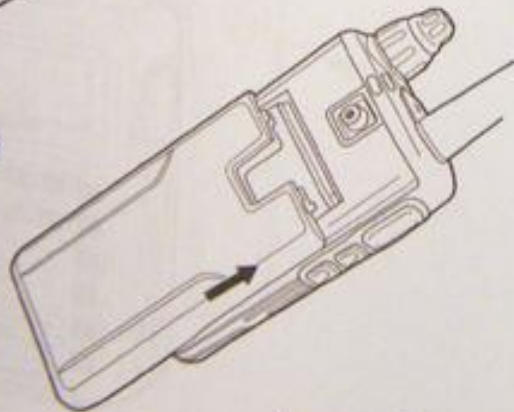


Image 2



Image 3

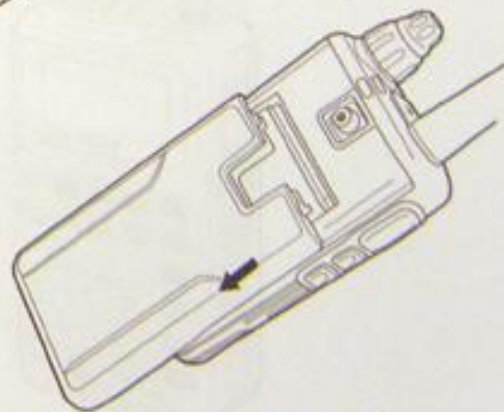


Image 4

06 INSTALLING ACCESSORIES AND OPTIONAL

INSTALLING/REMOVING THE ANTENNA

Screw the antenna into the connector on the top of the radio by holding the antenna at its base and turning it clockwise until secure (image 5).



Image 5

Turning or spiraling the antenna counterclockwise to remove the antenna. (image 6).



Image 6

INSTALLING/REMOVING THE BELT CLIP

Fix the belt clip by using the supplied screws. You can unscrew it to remove the belt clip (image 7).



Image 7

INSTALLING THE SPEAKER/ MICROPHONE

Open the cover of the speaker/microphone jack and insert the speaker/microphone plugs into the jacks. (image 8).



Image 8

08 INSTALLING ACCESSORIES AND OPTIONAL

INSTALLING THE WRIST STRAP

You can install a wrist strap to the back of the radio.



Image 9

INTRODUCTION

ANTENNA

A rubber antenna used to receive and transmit signal.

LED INDICATOR

Lights red while transmit;
Lights green while receiving.

LCD DISPLAY

Display the status when the radio working.

KEYPAD

To input the frequency and setting function.

POWER SWITCH / VOLUME CONTROL

Turn clockwise to switch ON the radio. To switch OFF the radio, turn counterclockwise until a click sounds. Rotate to adjust the volume level.

CHANNEL ENCODER

Turn clockwise or counterclockwise to change the channel.

SPEAKER / MICROPHONE JACK

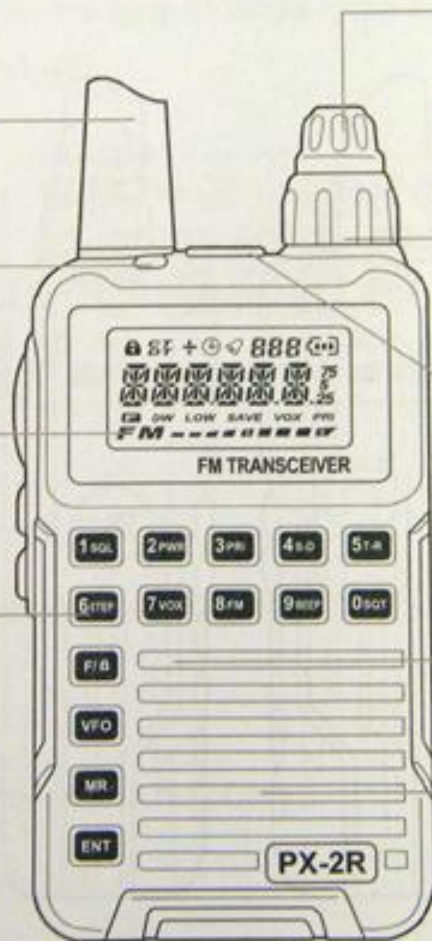
Jack for speaker microphone or programming cable.

MICROPHONE

Input the sound

SPEAKER

Output the sound



**PTT (Push-To-Talk)
SWITCH**

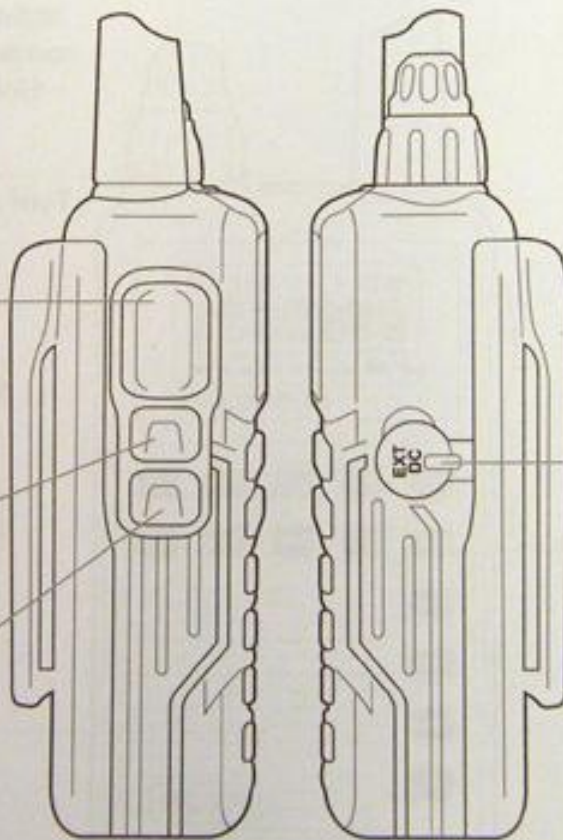
Press PTT then speak into the microphone to call and lights red. Release PTT to receive signal and lights green.

MONITOR KEY

Hold down to open squelch, release to exit.

LAMP KEY

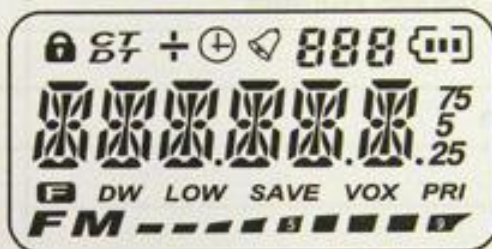
Press to illumine the LCD backlight and keypad backlight.

**CHARGING SOCKET**

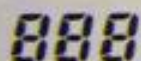
Connect to the adaptor for charging.

LCD DISPLAY

You can see various icons displaying on the screen while radio is working. The following table can help you identification the icon which display on LCD.



Shows the working frequency, channel numbers and menu etc.






Shows the memory channel numbers or menu numbers.





Shows the transmit/received signal strength.

12 GETTING ACQUAINTED





Icon Display And Function Description:

| NO. | Icon | Function Description | Operation |
|-----|---|-------------------------|----------------|
| 1 |  | Keypad locked | Hold on [F] 2s |
| 2 | 888 | Memory Channel Number | [MR] |
| 3 |  | Beep | Meun 9 |
| 4 | - | Shift down | [F] + [4] |
| 5 | + | Shift up | [F] + [4] |
| 6 | CT | CTCSS | [F] + [0] |
| 7 | DT | DCS | [F] + [0] |
| 8 | LOW | Low power | [F] + [2] |
| 9 | SAVE | Save power supply | Meun 16 |
| 10 | VOX | VOX activated | [F] + [7] |
| 11 |  | Battery power indicator | ----- |
| 12 | FM | Fm radio activated | [F] + [8] |
| 13 | PRI | Priority channel scan | [F] + [3] |

1. [F]+[1], Adjust the Squelch from 0-9 level;
2. [F]+[2], Adjust the low/high power;
3. [F]+[3], Set priority scan;
4. [F]+[4], Set repeater shift;
5. [F]+[5], Set frequency reverse;
6. [F]+[6], Set channel step;
7. [F]+[7], Set VOX on/off;
8. [F]+[8], Set FM radio;
9. [F]+[9], Set the keypad beep on/off;
10. [F]+[0], Set CTCSS/DCS;
11. VFO key define: Back to frequency mode from channel mode by pressing [] key one time, hold down two seconds to scan from current frequency through all the frequencies; Scan from low frequency to high frequency by rotating encoder knob clockwise; Scan from high frequency to low frequency by rotating encoder knob anticlockwise.
12. MR key define: Back to channel mode (display the frequency & channel number at the same time) by pressing [] key one time, hold down two seconds to channel scan; Scan from low frequency to high frequency by rotating encoder knob clockwise; Scan from high frequency to low frequency by rotating

14 SHORTCUT OPERATION

encoder knob anticlockwise.

13. Hold down [] and turn on the power at the same time to enter the " **RESET ?** ", press the [] key to enter the reset mode, rotate the encoder knob to select " **VFO/FULL ?** " Select the VFO to clear the setting on frequency mode, select FULL (clear all the setting), it means clear all the setting on both frequency mode and channel mode.
14. Hold down [] for two seconds to lock the keypad.
15. Hold down [] and turn on the power: the radio can switch between frequency mode and channel mode.

| Item | Description | Settings |
|------|---|-------------------------|
| 1 | SQL (Squelch level setting) | 0-9 LEVEL |
| 2 | POW (power level setting) | LOW/HIGH |
| 3 | PRI (priority channel scan) | ON/OFF |
| 4 | S-D (repeater shift) | 0/+/- |
| 5 | T-R (transmit/receive frequency reversed) | ON/OFF |
| 6 | STEP (frequency step) | 12.5KHz/25KHz |
| 7 | VOX (VOX setting) | OFF, 1-9 level |
| 8 | FM (FM radio) | ON/OFF |
| 9 | BEEP (key-touch tone) | ON/OFF |
| 10 | R-CDC (receive CTCSS/DCS) | OFF/50 CTCSS/104 DCS |
| 11 | LAMP (backlight control) | OFF/CONT/KEY |
| 12 | SCANS (scan type) | TO/CO/SE |
| 13 | TOT (time-out timer) | OFF, 1-7 MINS |
| 14 | DIFFR (repeater offset) | UHF (00.000-69.9875MHz) |
| 15 | W/N (wide/narrow band) | WIDE/NARROW |

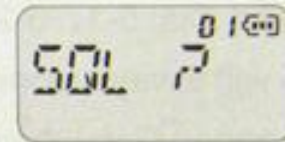
16 MENU LIST

| Item | Description | Settings |
|------|-------------------------------|----------------------|
| 16 | SAV (save power) | ON/OFF |
| 17 | NM SET (edit channel name) | Edit by user |
| 18 | NAME (frequency display mode) | FREQ/ALPHA |
| 19 | T-CDC (transmit CTCSS/DCS) | OFF/50 CTCSS/104 DCS |

Squelch (SQL)

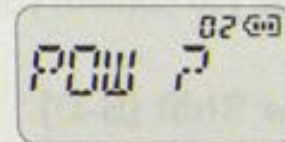
The Squelch function is to mute the speaker's background noise until received a signal. When the squelch level adjusted correctly, you will hear the voice while receiving a signal.

On frequency mode, press [**F/B**]+[**1SQL**] key, " **SQL ?⁰¹** " displays on LCD , press [**ENT**] key until Squelch level displays, turn the encoder knob to select the desired squelch level (9 levels are available), press [**ENT**] to confirm your selection and press twice [**VFO**] to exit.



Power Level (POW)

Press [**F/B**]+[**2POW**] key, " **POW ?⁰²** " displays on LCD , press [**ENT**] key until current power level displays, turn the encoder knob to select your desired power level, press [**ENT**] to confirm your selection and press twice [**VFO**] key to exit.








★ " LOW ": low power; " HIGH ": high power.

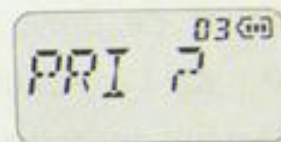
18 MENU SETTING

Priority Scan (PRI)

This function is use for scan the channel you frequently used. Your dealer can set the priority channel by software. On channel mode, when this function is set ON and the priority channel is 5, the radio will scan like this: 5-1、5-2、5-3、5-4、5-5、5-6



The radio will always monitor the priority channel even it locks on non-priority channel. Once the priority channel is active, it will jump to this priority channel.


On channel mode, press []+[] key, " PRI ? ⁰³ " displays on LCD, press [] key and then turn the encoder knob to select ON/OFF, press [] to confirm your selection and press twice [] key to exit.



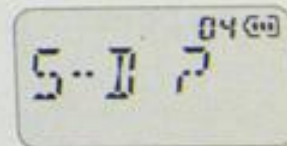
Repeater Shift (S-D)

To select this function, follow these steps:

1. In frequency mode, press []+[] key, " S-D ? ⁰⁴ " displays on LCD.

2. Press [] ;

3. Turn the encoder knob and select the Shift. You can choose amongst



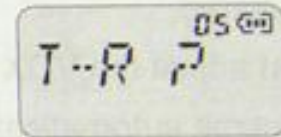
Shift Down (-), Shift Up (+), Or None (0).

4. Press [**ENT**] again;
5. Press twice [**VO**] to exit.

Receive/Transmit frequency reverse

To select this function, follow these steps:

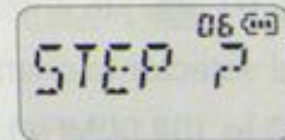
1. Press [**F/B**]+[**St**] to enter the TX/RX frequency reverse.
2. Press [**ENT**] to confirm.
3. Turn the encoder knob to select on/off.
4. Press [**ENT**] once again to confirm and exit.



Frequency Step (STEP)

To select this function, follow these steps:

1. On frequency mode, Press [**F/B**]+[**6STEP**], "STEP ? 06" displays on LCD.
2. Press [**ENT**] and turn encoder knob to select frequency step: 12.5KHz or 25KHz.
3. Press [**ENT**].
4. Press twice [**VO**] to exit.



VOX (VOX)

This function activate transmitting when speaks to microphone without pressing PTT button. It stops transmitting automatically once you stop speaking.

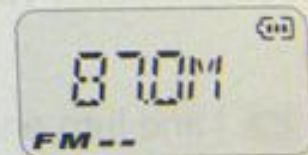
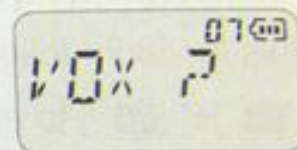
Press [**F/A**]+[**7 VOX**] to open/close this function. VOX icon is displays when it activated.

- You must adjust the VOX gain level before use VOX.
- It will transmit automatically when you speak to microphone.
- It will stop transmitting automatically and wait to receive when you stop speaking.

Press [**ENT**] to confirm your selection, then press twice [**VFO**] to exit.

FM RADIO Receiver (FM)

Press [**F/A**]+[**8 FM**] to enter the FM RADIO receiver function, rotate the channel selector to change the RADIO station (frequency range from 87.000 to 108.00MHz). Press [**F/A**]+[**8 FM**] once again or turn off the radio to exit the FM RADIO function.

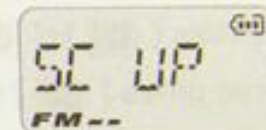
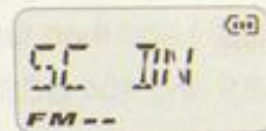


■ FM RADIO Scan

In the mode of FM RADIO, press once [**VFO**] key to switch to frequency mode from channel mode, " **SC DN** " displays on LCD, it indicates all frequencies scan is processing, you can turn the encoder to switch to " **SC UP** ".

★ SC DN indicates scan from high frequency to low frequency;
SC UP indicates scan from low frequency to high frequency.

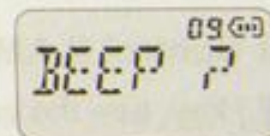
★ Press [**MR**] key to switch from frequency mode to channel mode.



Beep ON/OFF (BEEP)

Radio will sound beep when you press a key on keypad. You can press [**F/A**]+[**9/MP**], then press [**ENT**] to confirm, it will show the current status on LCD.

Turn the encoder knob to enable or disable this function, press [**ENT**] to confirm your selection, press twice [**VFO**] to exit.

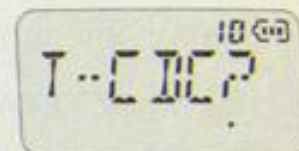
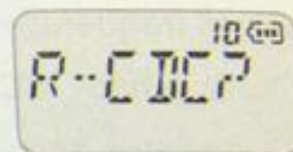


CTCSS/DCS

① **R-CDC:** Press [**F10**]+[**0901**] key, " R-CDC ? ¹⁰ " displays on LCD, press [**ENT**] and then turn the encoder knob to select the sub tone 50 CTCSS and 104 DCS, press [**ENT**] to confirm then press twice [**VFO**] to exit.

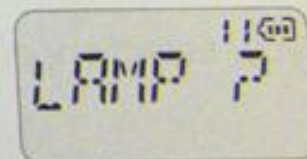
② **T-CDC:** Press [**F10**]+[**0901**] key, " R-CDC ? ¹⁰ " displays on LCD, press three times [**ENT**] until " T-CDC ? ¹⁹ " displays on LCD, then press [**ENT**] and turn the encoder knob to select the sub tone 50 CTCSS and 104 DCS , press [**ENT**] to confirm then press twice [**VFO**] to exit.

★ You can press [**F10**] key to switch to invert CTCSS/DCS.



**Backlight Control (LAMP)**

Press [**F10**] key, turn the encoder knob to item eleventh until " LAMP ? ¹¹ " displays on LCD, press [**ENT**] and turn the encoder knob to select, there are three options:

1. OFF means lamp of keypad and LCD is always illumine
2. KEY means the lamp of keypad and LCD is illumine and keep for



five seconds. The lamp will be cut off automatically while there is no operation for five seconds. The lamp will keep illumine for five seconds again while operating. You can also cut off the lamp by pressing [**LAMP**] key.

3. CONT means the lamp is always illumine even if there is no operation. then press [] to confirm, press twice [] to exit.

Scan Type (SCANS)

You have to select one of scan types before using of scan function

You can choose one of there modes as follow:

① Time-operated scan (TO)

After radio lock in a busy channel about five seconds, the radio begins scanning other channel even the signal is receiving.

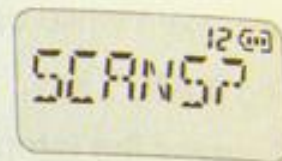
② Carrier-operated scan (CO)

The radio will lock in one busy channel until there is no activity, and then it begins scan other channels. There are two sec. delay between signal disappears and scan again.

③ Search scan (SE)

The radio stops on a busy channel and exits the scan mode.

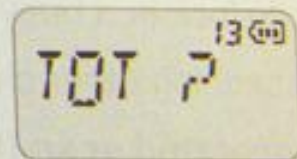
Press [**F/A**] key, turn the encoder knob to the item twelfth until " **SCANS ?** ¹² " displays on LCD, press [**ENT**] and turn the encoder knob to select the scan type (TO/CO/SE), press [**ENT**] to confirm your selection, press twice [**VFO**] to exit.



Time Out Timer (TOT)

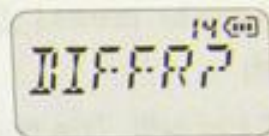
To prevent accidental prolonged transmission to damage the radio. You can set 1-7 minutes timer, it will stop transmitting and sound a alert tone when the period end.

On frequency mode, Press [**V/B**] key ,turn the encoder knob to the item thirteenth until " **TOT ?** ¹³ " displays on LCD, press [**ENT**] and turn the encoder knob to select, then press [**ENT**] to confirm your selection, press twice [**VFO**] to exit.



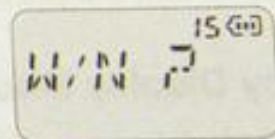
Repeater Offset (DIFFR)

1. On frequency mode, press [**F/R**] key and turn the encoder knob to the item fourteenth.
2. Press [**ENT**] key and turn the encoder knob to change the offset.
And you can also select the offset step, 12.5KHz and 1MHz are option.
Range from 00.000 to 69.9875 MHz
3. Press twice [**VFO**] to save and exit.



Wide/Narrow band (W/N)

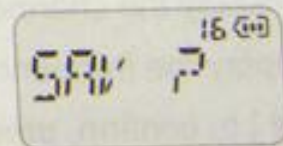
On frequency mode, press [**F/R**] and turn encoder knob to item fifteenth until " **W/N ?** ¹⁵ " displays on LCD, press [**ENT**] and turn the encoder knob to select, press [**ENT**] to confirm and press twice [**VFO**] to exit.



Save Power Supply


This function is use to save battery power in case of no signal, and to extend the usage time. This function canceled when squelch opened or keys pressed.


On frequency mode, press [**F/R**] key and turn the encoder knob to item sixteenth until " **SAV ?** ¹⁶ " displays on LCD, press [**ENT**] and turn the encoder knob to select, press [**ENT**] to confirm, press twice [**VFO**] to exit.





Channel Name Edit (NM SET)


To edit channel name (five alphanumeric at most).

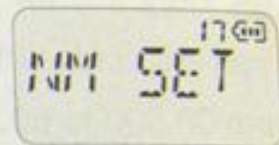
on channel mode, press [] key, turn the encoder knob to item seventeenth.

Press [] to edit. The first character is blinking, and turn encoder knob to select " 0 " ~ " 9 ", " A " ~ " Z ", " _ (space) ".



Press [] to edit the second character.

Repeat the step 2, 3 until 5, then press [] to finish.

To delete or re-edit the previous character, press and hold on [] .





Frequency Display Mode (NAME)

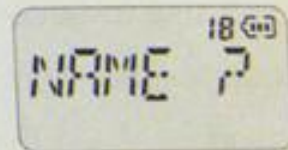
On channel mode, press [] key and turn the encoder knob to item eighteenth until " NAME ? 18 " displays on LCD, press [] to enter,

then turn the encoder knob to select the type you need, two options are available as follow:

ALPHA: Display the channel name you edited;

FREQ: Display the frequency;

Press [] to confirm, press twice [] to exit.



PUXING

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