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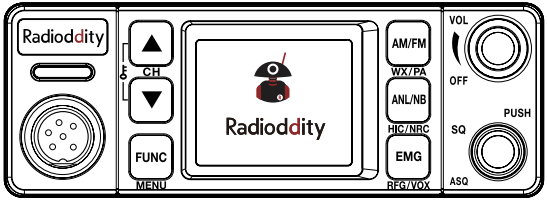
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Radioddity

CB-606PLUS

CB Radio

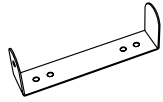


Instruction Manual

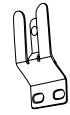
1. ACCESSORIES



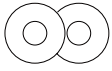
Microphone



Mobile Bracket



Microphone Hanger



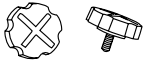
non−slip mat



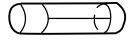
Pads



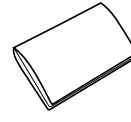
Tapping screws



Adjusting screws

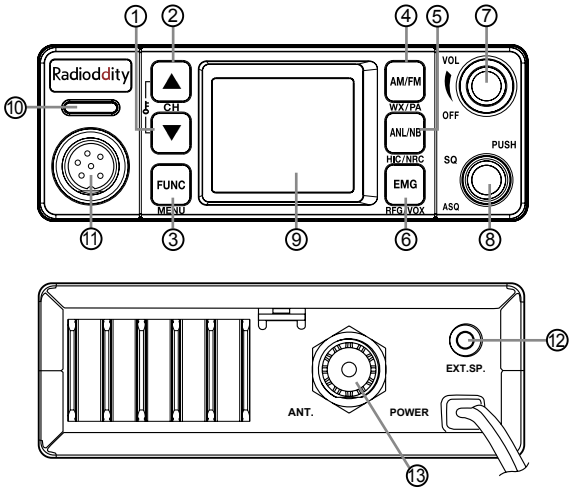


Spare Fuses
5A 250V

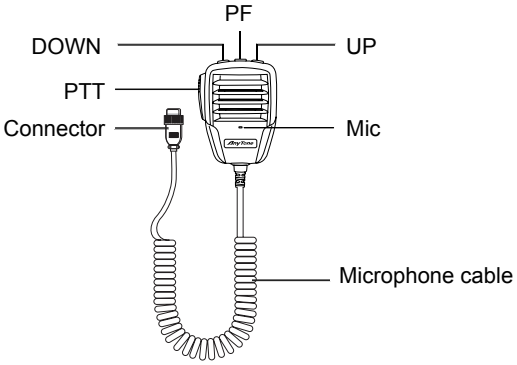


User Manual

2. KNOW ABOUT THIS RADIO



1	Channel Down Selector ~ Keypad Lock ~ Scan On
2	Channel Up Selector ~ Keypad Lock ~ Scan On
3	Func ~ Menu
4	Mode Select : AM/FM ~ CB/WX ~ PA
5	ANL/NB On/Off ~ HI-CUT On/Off ~ NRC On/Off
6	Emergency Channel ~ RF Gain Control ~ VOX On/Off
7	Power On/Off ~ Volume Control
8	ASQ (Automatic Squelch Control) ~ Squelch ~ Push
9	LCD Display
10	RX (Receive) LED Indicator
11	TX (Transmit) LED Indicator
12	Microphone Plug
13	External Optional Speaker Jack
14	Antenna Jack


PF
DOWN
UP
PTT
Connector
Mic
Microphone cable

3. HOW TO USE THIS RADIO

3.1 Power On/Off the Radio .....

Turn the **VOL** knob clockwise to power on the radio, the LCD displays the Norms and then displays channel number.

Turn the **VOL** knob anti-clockwise, until hear Ka Ta, the radio is powered off.

3.2 Volume Control .....

Turn the **VOL** knob clockwise to increase the volume, turn it anti-clockwise to decrease the volume.

3.3 ASQ ~ SQ Control ~ PUSH.....

※**ASQ (Automatic Squelch Control)**

Turn the **SQ** knob anti-clockwise into **ASQ** position. " **AQ** " appears on the LCD. No repetitive manual adjustment and a permanent improvement between the sensitivity and the listening comfort when **ASQ** is active. This function can be disconnected by turning the switch clockwise. In this case the squelch adjustment becomes manual. " **AQ** " disappears from the LCD.

※**SQ (Manual Squelch Control)**

Turn the **SQ** knob clockwise to the exact point where all background noises disappear. This adjustment should be done with precision as, if set to maximum (fully clockwise), only the strongest signals will be received.

※**PUSH**

In CB mode, short press **PUSH** knob to enter ASQ level settings, LCD shows " ASQ X " for 10 seconds which means ASQ level. Total is 9 levels. Short press ▲ / ▼ keys on the unit or **UP**/**DN** keys on the microphone to change ASQ level. Short press **PUSH** knob again to store and exit.

In VHF mode, short press **PUSH** knob, the frequency is blinking, press ▲ / ▼ keys on the unit or **UP**/**DN** keys on the microphone to adjust frequency according to the MENU VHF Freq Step settings. Press **PUSH** knob again to select frequency adjustment step size.

3.4 Channel Selector .....

Short press ▲ / ▼ keys on the unit or **UP**/**DN** keys on the microphone to change channels by one step.

Hold ▲ / ▼ keys on the unit or **UP**/**DN** keys on the microphone can fast changed channels.

3.5 SCAN

Short press [▲] or [▼] keys on the unit after the short press [FUNC] key to activate the scan function. The scanning stops as soon as there is a busy channel.

In scanning mode, press [▲] / [▼] keys on the unit or **UP**/**DN** keys on the microphone to change scan direction.

3.6 Key Lock

Long press simultaneously [▲] and [▼] keys on the unit to activate / deactivate the KEY LOCK function. When the function is active, "**OFF**" appears on the LCD.

3.7 AM/FM ~ CB/WX ~ PA

※**AM/FM (short press)**

Short press [AM/FM] key to modify the modulation mode **AM** or **FM**.

Corresponding mode is appears on the LCD.

※**CB/WX (long press)**

Long press [AM/FM] key to alternate between CB or WX mode.

※**PA (PTT + AM/FM or FUNC + AM/FM)**

Press and hold the PTT switch and short press [AM/FM] key or short press [AM/FM] key after the short press [FUNC] key to alternate between **CB** and **PA** mode.

When the **PA** mode is activated, the modulation of the microphone and the received signal are transmitted to the internal loudspeaker or external optional loudspeaker connected to jack EXT.SP. " PA " blinks alternate with the modulation mode (AM or FM).

Turn the **VOLUME** knob to adjust the **PA** volume

3.8 ANL/NB ~ HI-CUT ~ NRC

※**Channels Scan (short press)**

The **ANL** filter is enable only in **AM** mode.

Short press [ANL/NB] key to activate / deactivate the filters function. The activated filter is shown on the display.

※**HI-CUT (long press)**

Long press [ANL/NB] key to activate / deactivate the **HI−CUT** function. " **HIC** " is displayed when the function is active.

※**NRC (PTT + SCAN or FUNC + SCAN)**

Press and hold the PTT switch and short press [ANL/NB] key or short press [ANL/NB] key after the short press [FUNC] key to activate / deactivate the **NRC** function. " **NRC** " is displayed when the function is active.

3.9 Emergency Channels ~ RF Gain ~ VOX .....

※Emergency Channels (short press)

Press the [EMG] key, the radio automatically tune to emergency channel 1.

Press the [EMG] key again, the radio automatically tune to emergency channel 2.

Press the [EMG] key third time to return to the previous channel.

※RF Gain (long press)

Long press [EMG] key to enter the RF Gain setting, the current value appears on the LCD.

Short perss [▲] / [▼] keys on the unit or **UP/DN** keys on the microphone to modify the value.

Short press the other keys to validate and exit the setting.

" **RFG** " is displayed when the function is active.

※VOX (PTT + EMG or FUNC + EMG)

Press and hold the PTT switch and short press [EMG] key or short press [EMG] key after the short press [FUNC] key to activate or deactivate the VOX function, " **VOX** " appears on the LCD when the function is active.

3.10 Frequency Band Selection .....

Hold the [AM/FM] key to power on radio, the symbol corresponding to the current configuration is blinking.

Press the [▲] / [▼] keys on the unit or **UP**/**DN** keys on the microphone to change the configuration.

When the configuration is selected, switching off the radio and the switching it on again to confirm the selection.

3.11 Install External Speaker .....

Choose a 8Ω external optional speaker with 3.5 mm mono connector.

3.12 Resume Factory Default .....

Turn on the power while pressing the [EMG] key to reset to the factory settings.

4. MENU OPERATIONS

Long press [FUNC] key to enter the menu function setting.

Short perss [▲] / [▼] keys on the unit or **UP/DN** keys on the microphone to select the menu to set.

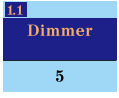
Short press [FUNC] key to validate, the parameter blinks on the LCD.

Short perss [▲] / [▼] keys on the unit or **UP/DN** keys on the microphone to modify the value of the parameter.

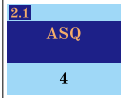
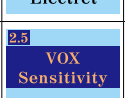
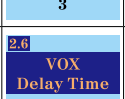
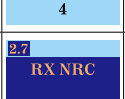
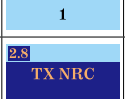
Short press [FUNC] key again to store the chosen value and return to the previous level to set another menu.

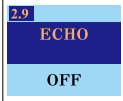
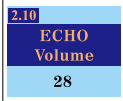
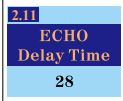
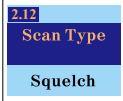
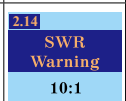
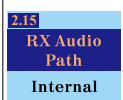
Press **PTT** switch or long press [FUNC] key or wait for 10 seconds to store and exit **MENU**.

4.1 Functions Menu Setting.....

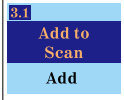
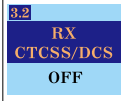
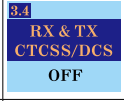
NO.	LCD display	Function detail	Setting details
1.1		Backlight brightness setting	1 ~ 5 Default : 5
1.2		Key beep volume setting	OFF , 1 ~ 5 Default : 1
1.3		Microphone self define PF key function	NRC / ECHO / RF GAIN / CTCSS/ DCS / KEY BEEP / RB / MIC GAIN / VOX / ANL/NB / HI-CUT / SCAN / DIMMER / SCAN SKIP / ALERT Default : ECHO
1.4		Reset	All : restore all factory parameters. Scan Skip : erase all the channels stored on the SCAN SKIP memory.

4.2 Common Parameters Setting .....

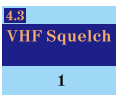
NO.	LCD display	Function detail	Setting details
2.1		ASQ level setting	1 ~ 9 Default : 4
2.2		Roger beep sound setting	1 ~ 6 Default : 1
2.3		Microphone gain control	1 ~ 9 Default : 5
2.4		Microphone type setting	Electret (default) Dynamic
2.5		VOX sensitivity level setting	1 ~ 9 Default : 3
2.6		VOX delay time setting	1 ~ 9 Default : 4
2.7		RX noise reduction level setting	OFF , 1 ~ 9 Default : 1
2.8		TX noise reduction level setting	OFF , 1 ~ 9 Default : 1

NO.	LCD display	Function detail	Setting details
2.9		ECHO function control	OFF : turn off ECHO function ON : turn on ECHO function Default : OFF
2.10		ECHO volume level setting	1 ~ 32 Default : 28
2.11		ECHO delay time setting	1 ~ 32 Default : 28
2.12		Scan type setting	Squelch scan Time scan Default : Squelch
2.13		Time out timer setting	OFF , 1 ~ 10 Min Default : 3
2.14		SWR warning	OFF , 2:1 ~ 10:1 Default : 10:1
2.15		RX audio path control	Internal : the VOL knob affects the internal speaker volume. (default) Mic Plug : the VOL knob affects the microphone built-in speaker volume. Both : the VOL knob affects both the internal speaker and microphone builtin speaker volume.

4.3 CHannel Parameters Setting .....

NO.	LCD display	Function detail	Setting details
3.1		Scan skip setting	Add : add the current channel to the scan list (default) Skip: skip scanning the list for the current channel
3.2		CTCSS/DCS decode setting	OFF : no genre (default) CTCSS : 01-67.0 ~ 38-250.3 DCS : 001-023 ~ 104-754
3.3		CTCSS/DCS encode setting	OFF : no genre (default) CTCSS : 01-67.0 ~ 38-250.3 DCS : 001-023 ~ 104-754
3.4		CTCSS/DCS decode & encode setting	OFF : no genre (default) CTCSS : 01-67.0 ~ 38-250.3 DCS : 001-023 ~ 104-754
3.5		EMG 1 channel setting	Allows to set the channel and mode for Priority Channel 1 Default : channel 9 AM
3.6		EMG 2 channel setting	Allows to set the channel and mode for Priority Channel 2 Default : channel 19 AM

4.4 WX / VHF Parameters Setting.....

NO.	LCD display	Function detail	Setting details
4.1		WX ALERT function setting	OFF : turn off ALERT filter ON : turn on ALERT filter Default : OFF
4.2		VHF channel setting	OFF : deactivate the VHF channel ON : activate the VHF channel Default : OFF
4.3		VHF squelch level setting	1 ~ 6 Default : 1
4.4		VHF frequency adjustment step setting	2.5KHZ / 5KHZ / 6.25KHZ / 10KHZ / 12.5KHZ / 20KHZ / 25KHZ / 30KHZ / 50KHZ Default : 2.5KHZ

5. SPECIFICATION

GENERAL		
Modulation Mode		AM/FM
Frequency Range		26.965−27.405MHz
Frequency Tolerance		±5.0ppm
Input Voltage		12/24V
Dimensions		140x165x41mm
Weight		601g
Operating Temperature Range		−20℃ to +50℃
Current Drain	Transmit	3A MAX
	Receive	Squelched 0.3A
	VOL Max	0.7A
Antenna Connector		UHF, SO−239
TRANSMITTER		
Power Output		4 Watts FM/AM
Transmission interference		inferior to 4nW
Frequency Response		300−3000Hz
Modulated signal distortion		inferior to 5%
Output Impedance		50 ohms
RECEIVER		
Sensitivity		Less than 1uV for 10dB(S+N)/N
Image Rejection		70dB
Adjacent Channel Rejection		60dB
IF Frequencies		1st 10.695MHz
		2nd 455KHz
Automatic Gain Control(AGC)		Less than 10dB change in audio
		Output for inputs from 10 to 50000uV
Squelch		less than 1uV
Audio Output Power		2Watts at 8Ω less than 10% distortion
Frequency Response		300−3000Hz