

# ABBREE®

## AR-M6 CB RADIO

### Instruction Manual



## 1. FUNCTIONS & FEATURES

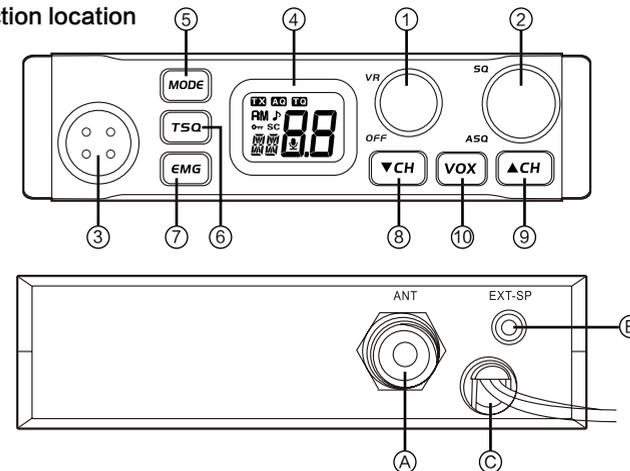
- ◆ AM and FM mode
- ◆ VOX
- ◆ CTCSS/DCS
- ◆ VOX
- ◆ SQ and ASQ Control
- ◆ Full Channel SCAN
- ◆ EMG Channel CH9/19

## 2. PRECAUTIONS

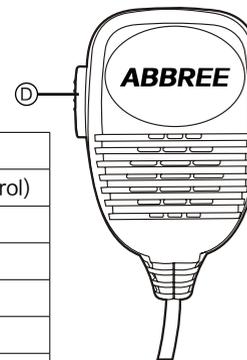
- 2.1** You are advised to check radio version first before connect power cable:
- ◆ **12V version radio:** Your radio must be supplied with a continued current of 12 volts.
- 2.2** Please install the antenna (connect to the location "B" on the back panel of the radio) and set the SWR (Standing Wave Ratio) before transmitting. Failure to do so may result in destruction of the power amplifier, which is not covered by the guarantee.

## 3. KNOW ABOUT THIS RADIO

### 3.1 Function location



1	POWER ON/OFF ~ VOLUME CONTROL
2	SQUELCH-ASQ (Automatic Squelch Control)
3	MICROPHONE JACK
4	LCD
5	MODE ~ KEYPAD LOCK
6	CTCSS/DCS ~ CTCSS/DCS SET
7	EMERGENCY CHANNEL ~ RESET
8	CHANNEL SELECTOR
9	CHANNEL SELECTOR
10	VOX ~ VOX SET
A	ANTENNA JACK
B	EXTERNAL SPEAKER JACK
C	POWER CONNECTION
D	PTT SWITCH



## 4. HOW TO USE THIS RADIO

- 4.1 Power On/Off the Radio** .....
- (1) Turn VOL knob ① clockwise to power on the radio, the LCD displays channel number.
  - (2) Turn VOL knob ① anti-clockwise, until hear "Ka Ta", the radio is powered off.
- 4.2 Volume Control** .....
- Turn VOL knob ① clockwise to increase volume, anti-clockwise to decrease volume.
- 4.3 ASQ / SQ Control** .....
- ※ **ASQ** (Automatic Squelch Control)
- Turn SQ knob ② anti-clockwise into ASQ position. LCD displays "ASQ". 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 again. "ASQ" disappears from LCD.
- ※ **SQ** (Manual squelch)
- Turn the SQ knob ② 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.
- 4.4 ▼CH/▲CH** .....
- ※ **Channel Selector** (short press)
- (1) These keys allow increasing or decreasing a channel. A beep sounds each time the channel changes.
  - (2) Hold ▼CH or ▲CH can fast change working channel.
- ※ **Scan** (very long press)
- (1) Press and hold the ▼CH or ▲CH key for 7 seconds or until a beep sounds to start scan function, LCD displays "SC".
  - (2) Short press ▼CH or ▲CH key to change scan direction during scan.
  - (3) Short press EMG or [PTT] key to exit scan function.

## 4.HOW TO USE THIS RADIO

### 4.5 MODE .....

※**Mode Control** (short press)

- (1) Short press **[MODE]**, key to switch between **FM / F M** mode.
- (2) The LCD displays the selected mode.

※**Keypad Lock** (long press)

- (1) Long press **[MODE]** key for over 2 seconds to lock the keys, LCD displays "🔒".
- (2) Long press **[MODE]** key for over 2 seconds again to unlock the keys "🔒" disappears form LCD.

▲ » *In lock Mode all keys except PTT is valid.*

### 4.6 TSQ .....

※**CTCSS/DCS** (short press)

- (1) Short press **[TSQ]** key to enable/disable CTCSS tone or DCS code, LCD displays "🔒" when the TSQ function is enabled.

▲ » *This function is only enabled in FM mode.*

※**CTCSS/DCS Setting** (long press)

- (1) Long press **[TSQ]** key enter the CTCSS/DCS function setting, "🔒" flashes in the LCD.
- (2) Short press **[TSQ]** key to select CTCSS tone or DCS code.  
C: stands for CTCSS tone.  
D: stands for DCS code.
- (3) Short press **[▼CH]** or **[▲CH]** key to set desired CTCSS tone or DCS code. There are 38 CTCSS tones from 001 to 038 and 104 DCS codes from 001 to 104.
- (4) Long press **[TSQ]** key to store and exit setting.

### 4.7 EMG .....

※**Emergency Channel** (short press)

- (1) Short press **[EMG]** key to choose CH9, the channel number flashes.
- (2) Short press **[EMG]** key again to choose CH19, the channel number flashes.
- (3) Short press **[EMG]** key third time to return to last normal channel.

## 4.HOW TO USE THIS RADIO

### 4.8 VOX .....

※**VOX** (short press)

Short press **[VOX]** key to enable/disable the VOX function. The LCD displays "🎤" when the VOX function is enabled.

※**VOX Setting** (long press)

- (1) Long press **[VOX]** key enter the VOX function setting, "🎤" flashes in the LCD.
- (2) Short press **[VOX]** key to choose wanted setting.

**LE:** stands for sensitivity level.allows the adjustment of the microphone for an optimum transmission quality. Adjustable level from 1 (high sensibility) to 9 (low sensibility)

**TI:** stands for delay time.allows avoiding the sudden cut of the transmission by

adding a delay at the end of speaking. The level is adjustable from 1 (short time delay) to 9 (long time delay)

- (3) Short press **[▼CH]** or **[▲CH]** key to set desired level.

- (4) Long press **[VOX]** key to store and exit setting.

### 4.9 Install external speaker .....

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

### 4.10 Resume Factory Default .....

- (1) Hold press **[EMG]** key to power on radio, until the LCD displays "🔒", the resume work finish.

- (2) All channel and function setting will resume factory default after above operation.

## 5. SPECIFICATION

GENERAL		
Modulation Mode	AM/FM	
Frequency Range	26.965-27.405MHz	
Frequency Tolerance	± 5.0ppm	
Input Voltage	13.8V	
Dimensions	140x161.5x41mm	
Weight	608g	
Operating Temperature Range	-20°C to +50°C	
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	1Watts at 8Ω less than 10% distortion	
Frequency Response	300-3000Hz	

**FCC Compliance Statements:**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

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.

**RF Exposure and Separation Distance:**

For safe operation, the minimum separation distance should be 35.8cm.

**WARNING:**

**MODIFICATION OF THIS DEVICE TO RECEIVE CELLULAR RADIOTELEPHONE SERVICE SIGNALS IS PROHIBITED UNDER FCC RULES AND FEDERAL LAW.**