

JOKER TK-308 AUTO MOBILE CB RADIO



POCC MY.MJ10.B01999



Win-Win



MADE IN MALAYSIA

USER'S MANUAL

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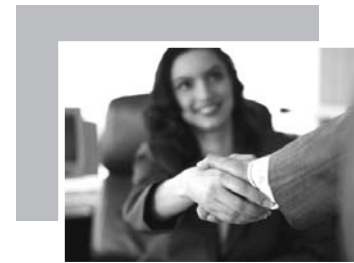
Thank you very much for purchasing this excellent Mobile CB Radio. We adopt the advanced technology, it has been tested carefully at our factory for your long term use.

Please read this manual completely to learn all functions. We made efforts to write this manual to be as comprehensive and easy to understand as possible. Please note that some of the operations may be explained in previous chapters. So if you read just one part of the manual, you may not understand the complete explanation of the function.



POCC MY.MJI10.B01999

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*Your need
is our service purpose!*

Please contact the local authorized dealer if you have any questions. We are not responsible for any typographical errors that may be in this manual. Standard accessories may change without notice, getting your understanding for any inconveniences.

FEATURES ----- 1
 Precautions ----- 1
ACCESSORIOS ----- 2
 Supplied accessories ----- 2
 Optional accessories ----- 2
PREPARATION ----- 3-4
 Mobile installation ----- 3
 DC power cable connection ----- 4
ACCESSORY CONNECTIONS ----- 5-7
 Replacing fuses ----- 5
 Antenna connection ----- 5-6
 External speaker ----- 7
 Microphone ----- 7
GETTING ACQUAINTED ----- 8-9
 Front panel ----- 8
 Display ----- 9
 Microphone ----- 9
 Rear panel ----- 9
OPERATING BASICS ----- 10-11
 Switching the Power ON/OFF ----- 10
 Adjusting the Volume ----- 10
 Adjusting the Squelch ----- 10
 Transmitting ----- 10
 Receiving ----- 10
 Memory operation ----- 10-11
 Dual watch function ----- 11
 Scan ----- 11
 Lock function ----- 11
 Unlock ----- 11
SERVICE INFORMATION ----- 12
 General Information ----- 12
 Service ----- 12
 Cleaning ----- 12
TROUBLE SHOOTING ----- 13
TECHNICAL SPECIFICATION ----- 14

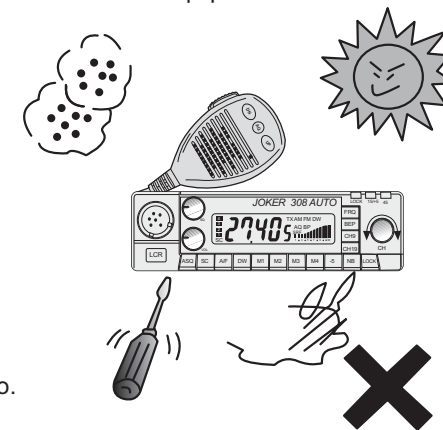
This new CB radio adopts some most advanced functions and reliable engineering features all over the world, which is accordance with our innovation and practicability principle, including **(some functions are supplied for E market only):**

- 240/270 channels, six channel-teams are programmed separately in "A, B, C, D, E, F", each band with 40 or 45 channels.
- There are two different display modes on a large LCD panel, Channel mode and Frequency mode.
- AM/FM mode
- EU/RU mode
- Scan function
- SQ&ASQ function
- Emergency call channel available (CH19, CH9)
- Four memory cells available
- External speaker
- RSSI: Receiving/ Transmitting Signal Strength Indication
- Dual Watch Function

PRECAUTIONS

Please observe the following precautions to prevent fire, personal injury, and/or transceiver damage:

- ⚠ Do not attempt to configure your transceiver while driving; it is simply too dangerous.
- ⚠ This transceiver is designed for a 13.8 V power source. Never use a 24 V battery to power the transceiver.
- ⚠ Do not place the transceiver in excessively dusty, humid or wet areas, nor on unstable surfaces.
- ⚠ Keep the transceiver away from TV, generator or other equipment when it is interfered.
- ⚠ Do not expose the transceiver to long periods of direct sunlight nor place it close to heating appliances.
- ⚠ If an abnormal odor or smoke is detected coming from the transceiver, turn OFF the power immediately. Ensure the transceiver is safe, then send it to the authorized and closest service station for inspection.
- ⚠ Do not transmit with high output power for a long time, it may overheat the radio.

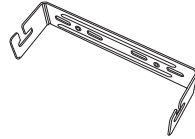
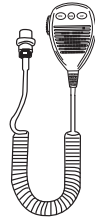


ACCESSORIES

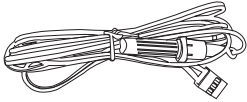
MOBILE CB RADIO

Carefully unpack the radio and confirm the following items except this manual:

- CB Radio
- Microphone
- Mounting bracket



- DC power cable



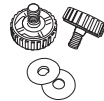
- MIC hanger



- Fuse



- Hardware kits for fixing bracket
- Hardware kits for fixing radio



The standard accessories may vary slightly depending on the version you have purchased. Standard accessories are subject to change without notice.

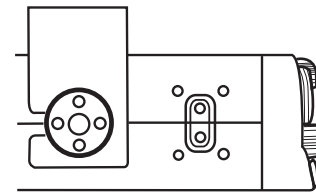
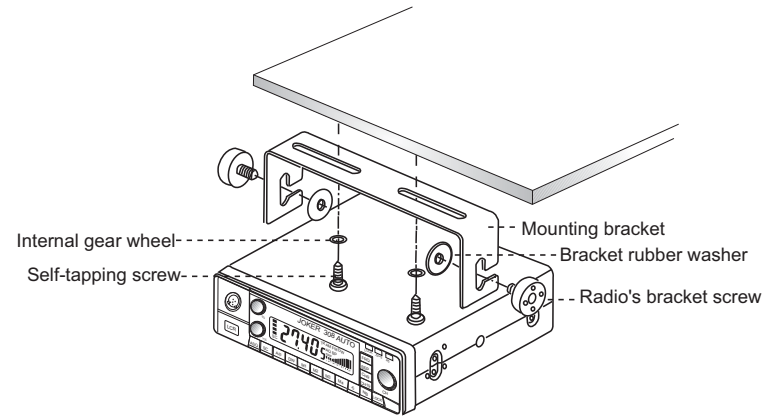
MOBILE CB RADIO

PREPARATION

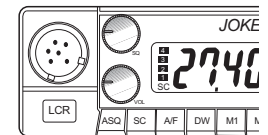
MOBILE INSTALLATION

To install the radio, select a safe, convenient location inside your vehicle that minimizes danger to your passengers and yourself while the vehicle is in motion. Consider installing the unit at an appropriate position so that knees or legs will not strike it during sudden braking of your vehicle. Try to pick a well ventilated location that is shielded from direct sunlight.

1. Install the mounting bracket in the vehicle using the supplied mounting bracket (1pc), self-tapping screw (2pcs) and internal gear wheel (2pcs).
 - Double check that all hardware are tightened to prevent vehicle vibration from loosening the bracket or transceiver.
2. After installing the mounting bracket, Position the transceiver, then insert and tighten the supplied radio's bracket screws (2pcs) and rubber washers(2pcs).
 - Double check that all hardware is tightened to prevent vehicle vibration from loosening the bracket or transceiver. (Determine the appropriate angle of the transceiver by the radio's bracket screw)



Profile

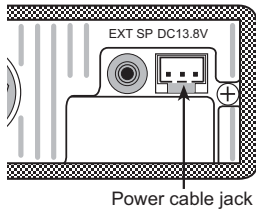


Front

DC POWER CABLE CONNECTION

Locate the power input connector as close to the radio as possible. The vehicle battery must have a nominal rating of 12 V. Never connect the radio to a 24 V battery. Be sure to use a 12 V vehicle battery that has sufficient current capacity. If the current to the transceiver is insufficient, the screen may darken during transmission, or transmit output power may drop excessively.

1. Route the DC power cable supplied with the transceiver directly to the vehicle's battery terminals using the shortest path from the transceiver.
 - If using a noise filter, it should be installed with an insulator to prevent it from touching metal on the vehicle.
 - We recommend you do not use the cigarette lighter socket as some cigarette lighter sockets leads an unacceptable voltage drop.
 - The entire length of the cable must be dressed so it is isolated from heat, moisture, and the engine secondary (high voltage) ignition system/cables.
2. After the cable is in place, wrap heat-resistant tape around the fuse holder to protect it from moisture and tie down the full run of cable
3. To prevent the risk of short circuits, disconnect other wiring from the negative (-) battery terminal before connecting the transceiver.
4. Confirm the correct polarity of the connections, then attach the power cable to the battery terminals; red connects to the positive (+) terminal and black connects to the negative (-) terminal.
 - Use the full length of the cable without cutting off excess even if the cable is longer than required. In particular, never remove the fuse holders from the cable.
5. Reconnect any wiring removed from the negative terminal.
6. Connect the DC power cable to the transceiver's power supply connector.



NOTE: If you use the radio for a long period when the vehicle battery is not fully charged, or when the engine is OFF, the battery may become discharged, and will not have sufficient reserves to start the vehicle. Avoid using the transceiver under these conditions.

REPLACING FUSES

If the fuse blows, determine the cause, then correct the problem. After the problem is resolved, replace the fuse. If newly installed fuses continue to blow, disconnect the power cable and contact your authorized dealer or an authorized service center for assistance.

Fuse location	Fuse current rating
Radio	5A
Supplied DC power cable	5A

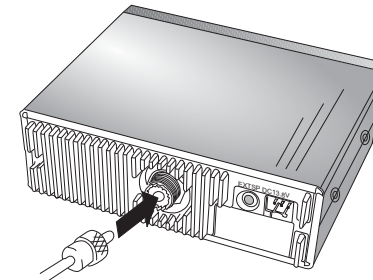
NOTE: Only use fuses of the specified type and rating; otherwise the transceiver could be damaged.

ANTENNA CONNECTION

Before operating, install an efficient, well-tuned antenna. The success of your installation will depend largely on the type of antenna and its correct installation. The transceiver can give excellent results if the antenna system and its installation are given careful attention.

Use a 50 Ω impedance antenna and low-loss coaxial feed line that has a characteristic impedance of 50 Ω , to match the transceiver input impedance. Coupling the antenna to the transceiver via feed lines having an impedance other than 50 Ω reduces the efficiency of the antenna system and can cause interference to nearby broadcast television receivers, radio receivers, and other electronic equipment.

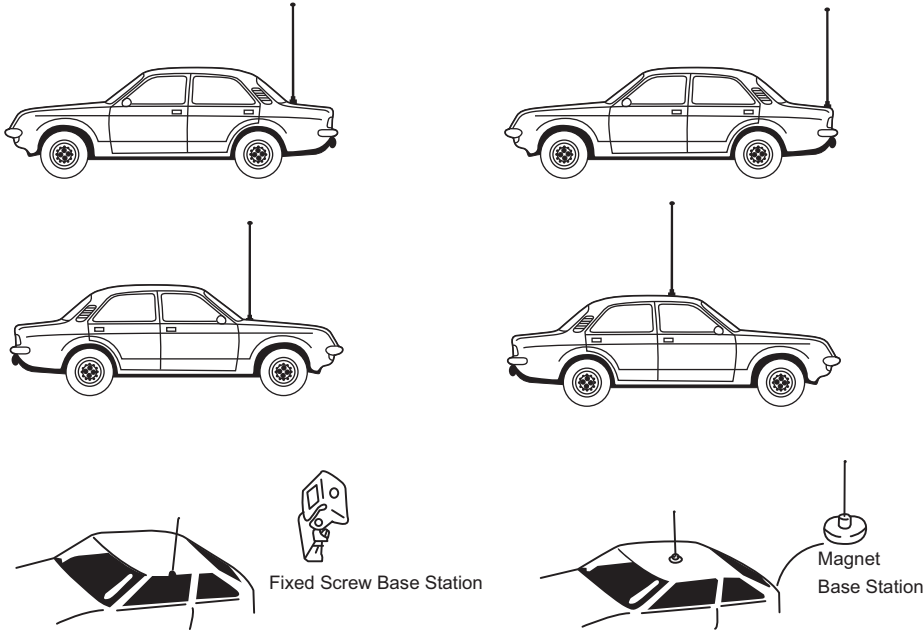
NOTE: Transmitting without first connecting an antenna or other matched load may damage the transceiver. Always connect the antenna to the transceiver before transmitting. All fixed stations should be equipped with a lightning arrester to reduce the risk of fire, electric shock, and transceiver damage.



Connect coaxial feed line to radio

ACCESSORIES CONNECTIONS MOBILE CB RADIO

There are many possible antenna locations on a car. Four of the most popular locations are shown and discussed as following:

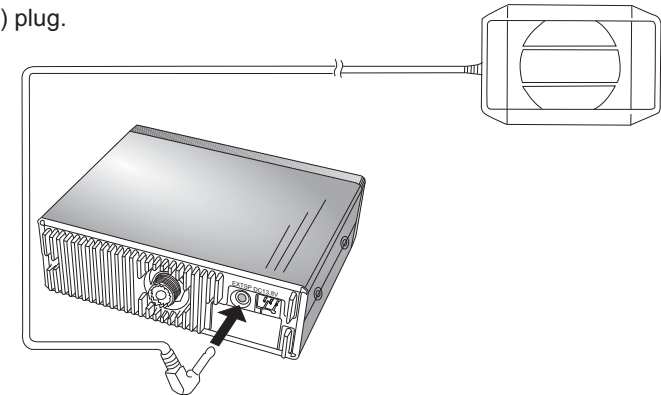


NOTE: After antenna installation, ensure that you may have the best SWR. High RF environments may cause severe interference to the unit. Ensure that you are not in a high RF environment when operating the radio.

MOBILE CB RADIO ACCESSORIES CONNECTIONS

EXTERNAL SPEAKER

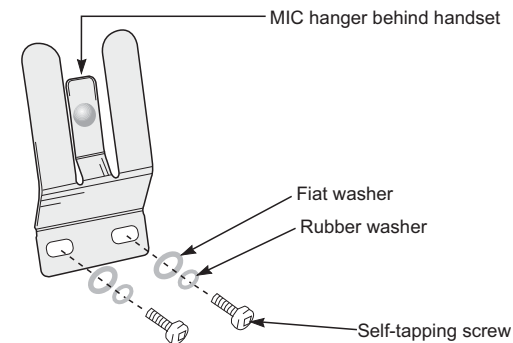
If you plan to use an external speaker, choose a speaker with an impedance of 8 Ω . The external speaker jack accepts a 3.5 mm (1/8") mono(2-conductor) plug.



MICROPHONE

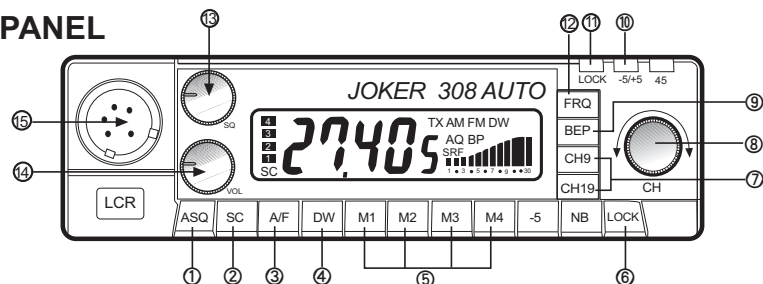
For voice communications, connect a microphone equipped with an 6-pin modular plug into the modular socket on the front of the main unit, then lock the locked circle firmly in clockwise.

Install the supplied microphone hanger in an appropriate location using the screws included in the screw set.



NOTE: This section only describes the main functions of the front panel controls. Explanations for functions not described here are provided in the appropriate sections of this instruction manual.

FRONT PANEL

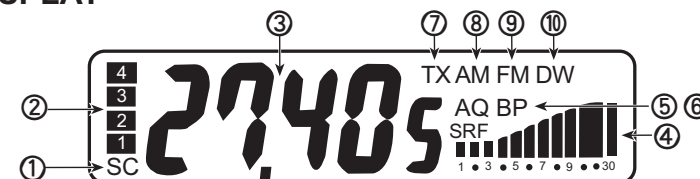


FUNCTIONS AND FEATURES OF KEYS

NO	BUTTON	FUNCTION
1	ASQ	Automatic squelch control Selecting ASQ makes receiving base noise auto-adjust to best, but it could not receive weak signal. "AQ" will appear on the screen by pressing, and will disappear if press once again. Same function as "AQ" on the microphone.
2	SC	Channel scan or frequency scan.
3	A/F	AM/FM switch key Press to switch AM/FM model. LCD indicates accordingly.
4	DW	Dual watch function key
5	M1、M2、M3、M4	Data storage keys, also called memory function key
6	LOCK	Keyboard Lock
7	CH9、CH19	Emergency calling key Press to switch to the relevant channel immediately, and it gleams. In this case, press CH9/CH19 again to exit, otherwise the other keys can not work as they have been locked.
8	Channel SWITCH (CH)	Turn clockwise to higher band, and counter-clockwise to lower band.
9	BEP	Beep sound key When the screen displays "BP", press any key, the speaker will beep.
10	-5/+5 indicator	EU/RU system indication
11	LOCK indicator	Keys lock indicator
12	FRQ	Press to switch between the Channel mode and Frequency mode. For example, if it displays 27.405, it is 27.405MHz; if it displays 40d, it is on the 40th channel in "D" band.
13	SQ	SQUELCH KNOB "SQ" manual adjusting knob. If it displays "AQ" on LCD, this knob will fail to work
14	VOL	VOLUME/POWER ON/OFF Turn counter-clockwise to make volume down and switch off, clockwise up and switch on.
15	—	Mic Port

Note: Some functions only supply in E market.

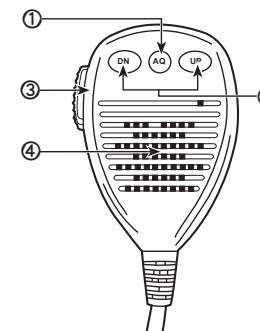
LCD DISPLAY



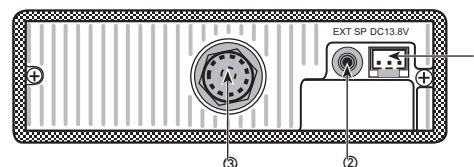
NO	ICON	FUNCTION
1	SC	Appears when using scan function
2	1 2 3 4	Data storage area codes. They are M1、M2、M3 and M4
3	27.405	Frequency or channel(MHz) name displaying area. If it displays "40d", it is on the 40th channel of frequency bandd, and its frequency is 27.405 MHz
4	TX	Appeas when transmitting
5	AM	Appears when receiving or transmitting in Amplitude modulation
6	FM	Appears when receiving or transmitting in Frequency modulation
7	DW	Appears when using dual-watch function
8	AQ	Appears when automatic squelch control works
9	BP	Appeas when Beep sound works
10	SRF	Received and transmited Signal Strength Indication (RSSI)

MICROPHONE

- "AQ" Auto squelching function, Press this key the LCD displays "AQ", press again, it will disappear. Same function as "ASQ" on the panel.
- "UP" and "DN" are for changing channel up and down, same as function of "CH" knob on panel
- Transmitting key
- MIC



REAR PANEL



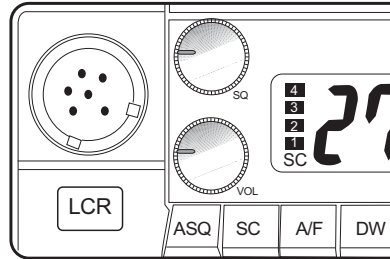
- Electric Outlet**
Connect a 13.8V DC power source here
- External speaker jack**
Jack for optional external speaker
- Antenna connector**
Using for connecting the 50 ohms coaxial cable to antenna

SWITCHING THE POWER ON/OFF

Turn the Volume knob clockwise until a click appears to turn on the radio and counterclockwise until a click appears to turn off the power.

ADJUSTING THE VOLUME

Turn the Volume knob clockwise to increase volume and counterclockwise to decrease volume.



ADJUSTING THE SQUELCH

The purpose of Squelch is to keep the speaker mute when no signals are presented. If manual squelch has been selected, you can set the squelch voltage by turning the squelch knob (SQ). If the selected squelch level is too high, it can not hear weaker signals; if the selected squelch is too low, the background noise will appear. Switch clockwise can raise the squelch level, switch anticlockwise can reduce the squelch level. The appropriate squelch level depends on the ambient RF conditions.

TRANSMITTING

1. To transmit, hold the microphone approximately 5 cm (2 inches) from your mouth, then press and hold Mic [PTT] and speak into the microphone in your normal tone of voice.
2. After finishing speaking, release Mic [PTT]

RECEIVING

Release Mic [PTT], radio automatically get into receiving state. When radio has received signals whose strength is enough to reach squelch level, radio opens speaker and sounds the voice from opposite party.

MEMORY OPERATION

Four data storage keys "M1-M4", also called memory function key (saving when turning off the radio). Default: M1 stores channel "1"; M2 stores the channel "9"; M3 stores channel "19"; M4 stores channel "40".

Call stored data: press memory key (<2 seconds) to call the stored data accordingly.

For example, when the screen indicates "18 channel or any data", press M1 less than 2 seconds, it will directly show the stored channel number in M1. If the stored channel number is "8", it will show "8". The other memory codes M2, M3, M4 work in the same way.

Store new data: Press and hold memory key (>2 seconds) to store current data accordingly to memory cell.

For example: The previous channel is "8" in M1; You need to store "28" into M1 storage area. After calling-out channel "28", press and hold M1 more than 2 seconds. After screen has flashed, it will store the channel number "28" into M1 key, and replace previous data. Next time, when press M1, it will display channel number "28", but not "8". M2, M3 and M4 operate the same as M1.

DUAL WATCH FUNCTION

When pressing "DW" key (dual watch function key), the screen will show "DW" and glitter, switch to new channel within 3 seconds, then press this key again, the DW will stop glitter and the radio will scan between the current channel and the previous channel. Dual watch function will be null when automatic squelch or manual squelch is selected and has got signal. For example, the current channel is "9", press "DW" key once, then switch to channel "13" by "CH" knob, press the "DW" key again, the radio will scan jumpily between the channel "9" and channel "13", also glitter. Press any keys, the radio will exit the "DW".

SCAN

Press "SC" key, LCD shows "SC" and starts scanning from channel "1" to channel "40". It goes round and round, if receiving a signal, it will stop scanning until the signal disappears, and it restarts to scan after 5 seconds. (If the ASQ starts, this function is ineffective).

LOCK FUNCTION

After pressing "LOCK" key, all key buttons are locked. Now except key PTT, SQUELCH, VOLUME, CH9, CH19, the other keys are disabled. Synchronously the "LOCK" indicator light lights on top right corner, indicating it has been locked, if press other keys, speaker sounds error prompting tone.

UNLOCK

To unlock, press "LOCK" again to enable all keys, and indicator light dies.

GENERAL INFORMATION

This product has been factory aligned and tested to specification before shipment. Under normal circumstances, the transceiver will operate in accordance with these instructions. All adjustable trimmers, coils, and resistors in the transceiver were preset at the factory. They should only be readjusted by a qualified technician who is familiar with this transceiver and has the necessary test equipment. Attempting service or alignment without factory authorization can avoid the transceiver warranty.

When operating properly, the transceiver will provide years of service and enjoyment without requiring further realignment. The information in this section gives some general service procedures requiring little or no test equipment.

SERVICE

If it is ever necessary to return this equipment to your dealer or service center for repair, pack it in its original box and packing material. Include a full description of the problems experienced. Include your telephone number, fax number, and e-mail address (if available) along with your name and address in case the service technician needs to call you for further information while investigating your problem. Do not return accessory items unless you feel they are directly related to the service problem.

You may return this product for service to the authorized dealer from whom you purchased it, or any authorized service center. A copy of the service report will be returned with the transceiver. Please do not send subassemblies or printed circuit boards; send the complete transceiver. Tag all returned items with your name and call sign for identification. Please mention the model and serial number of the transceiver in any communication regarding the problem.

SERVICE NOTE

If you desire to correspond on a technical or operational problem, please make your note short, complete, and to the point. Help us help you by providing the following:

- Model and serial number of equipment
- Question or problem you are having
- Other equipment in your station pertaining to the problem
- Meter readings
- Other related information (menu setup, mode, frequency, key sequence to induce malfunction, etc.)

Do not pack the equipment in crushed newspapers for shipment! Extensive damage may result during rough handling or shipping.

CLEANING

The keys, controls, and case of the transceiver are likely to become soiled after extended use. Remove the controls from the transceiver and clean them with a neutral detergent and warm water. Use a neutral detergent (no strong chemicals) and a damp cloth to clean the case.



Avoid using impregnant, like benzene, alcohol etc, they may damage the surface of the transceiver.

The problems described in the following tables are commonly encountered operational malfunctions. These types of difficulties are usually caused by improper hook-up, accidental incorrect control settings, or operator error due to incomplete programming. These problems are usually not caused by circuit failure. Please review these tables and the appropriate section(s) of this instruction manual before assuming your transceiver is defective.

PROBLEM	PROBABLE CAUSE	CORRECT ACTION
The transceiver will not power up after connecting a 13.8V DC power supply and pressing the [VOL](power)switch. Nothing appears on the display	1.The power cable was connected backwards. 2.One or more of the power cable fuses are open	1.Connect the supplied DC power cable correctly, Red (+),Black (-). 2.Look for the cause of the brown fuse(s), After inspecting and correcting any problems, install a new fuse(s) with the same ratings.
The display is too dim	The supplied voltage is too low	The supplied voltage requirement is 13.8V, DC \pm 15%(11.7V-15.8V DC) If the input voltage is outside this range ,adjust your regulated power supply and or check all power cable connections.
You can not transmit even through you press Mic[PTT]	The microphone plug was not inserted completely into the front panel connector.	Switch off the power, then insert the microphone plug and fasten it by locking the exterior fixed screws.

TECHNICAL SPECIFICATION **MOBILE CB RADIO**

GENERAL		
EU frequency range	A:25.615~26.055MHz B:26.065~26.505MHz C:26.515~26.955MHz D:26.965~27.405MHz E:27.415~27.855MHz F:27.865~28.305MHz	
RU frequency range	A:25.610-26.050MHZ B:26.060-26.500MHZ C:26.510-26.950MHZ D:26.960-27.400MHZ E:27.410-27.850MHZ F:27.860-28.300MHZ	
Channels	240/270	
Antenna impedance	50Ω	
Temperature	-20°C ~+60°C	
Power supply	13.8VDC ± 15%(11.7~15.8V)	
Grounded method	Cathode	
Current	Transmitting (max)	2.6A
	Receiving	600mA
Dimensions (L x W x H)	158X138X48mm	
Weight	833g	
TRANSMITTER		
Output power	8W	
Frequency tolerance	± 5ppm	
Spurious Radiation	≤-70dB	
Max current	2A	
AM modulation	90% ± 5%	
Max. deviation	± 2KHz	
RECEIVER		
Sensitivity	0.8uv(AM) 0.5uv(FM)	
Squelch level	0.5uv~1000uv	
Audio output power	1W 8Ω (10%)	
Audio distortion	5%	
Audio frequency	0.4 ~ 2.4KHz	
First intermediate frequency	10.695MHz	
Second intermediate frequency	455KHz	
Noise	45dB	

NOTE: No further advise for changing the specification.