



# CRT ONE v

MOBILE CB TRANSCEIVER  
AM- FM CITIZEN BAND  
EUROPEAN MULTI-NORMS



**OWNER'S MANUAL** Page 1-10  
**NOTICE D'UTILISATION** Page 11-27  
**Manual in limba romana** Page 28-36  
**INSTRUKCJA OBSŁUGI** Page 37-40



CRT® and SUPERSTAR® are registered and protected brands.  
English owner's manual Copyright CRT France 2017

## SYMBOLS DESCRIPTION

Please carefully read the instructions	
<b>Information on recycling</b> , not throwing your material in the trash at the end of life, bring it to special area to be recycling	
DC using	
Keep dry	
Shield symbol	
CE conformity symbol	
Warning	
Restrictions	

## STORAGE , TRANSPORT, USING

Storage : Classe 1 -30/85% (°humidity)

Transport : -30/85% (°humidity)

Operating temperature 30 à + 50°

Using cycle TX 10%/RX 90%



### Warned before use

This transceiver corresponds to the requirements of European directives RED 2014/53/EU documents n° EN 301 489-1 -13 / EN 62 311 / EN 300 433 / EN 62 368.

Thank you for choosing this CRT vehicle transceiver CRT always provides high quality products. Though friendly design for user, this transceiver is technically complicated and some features may be new to you. Consider this manual to be a personal tutorial from the designers, allow the manual to guide you through the learning process now, then act as a reference in the coming years.

### Precautions

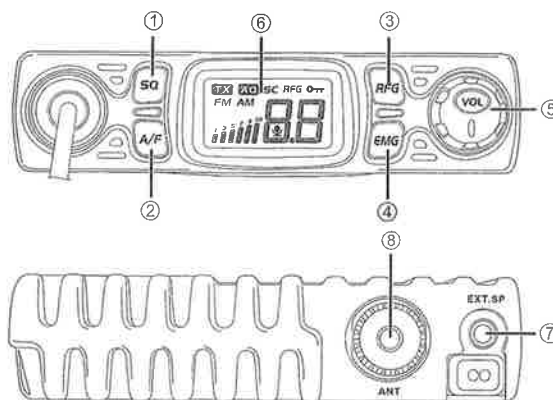
- Please observe the following precautions to prevent fire, personal injury, or transceiver damage.
- Do not attempt to configure your transceiver while driving, it is dangerous.
- This transceiver is designed for a 13.8V DC power supply. Don't use a 24V battery to power on the transceiver.
- Do not place the transceiver in excessively dusty, humid or wet areas, nor unstable surfaces.
- Do not connect the antenna while transmission, risk of burn or electric shock.
- Please keep it away from interferential devices (such as TV, generator etc.) devices (such as TV, generator etc.)
- For those fitted with pacemakers are advised to move away from the antenna during transmission, mainly in high power, and especially do not touch it.
- Never allow metal objects or son electrical contact with the part or internal electrical connection to the risk of electric shock.
- Avoid exposing the transceiver to temperatures below -30 ° C. and above +60 ° C, the temperature of the dashboard inside a vehicle can sometimes exceed 80 ° C, which can damage irreparable damage to your machine in case of prolonged exposure. Not exposed to prolonged direct sunlight or place it near heaters.

- ⚠ Do not place anything on top of the apparatus that would interfere with cooling.
- ⚠ Check that your battery is sufficiently charged to avoid rapidly exhausting its resources.
- ⚠ It is important to turn off your device before starting the vehicle to avoid damage caused by spikes in the ignition.
- ⚠ When replacing the fuse, you **must** use a fuse 2A 250V type F. In no case a higher value!, Otherwise a fire hazard.
- ⚠ If an **abnormal** odor or smoke is detected coming from the transceiver, turn OFF the power **immediately**. Contact an CRT service station or your dealer.
- ⚠ Do not transmit with high output power for extended periods; the transceiver may overheat.
- ⚠ Keep out from children.

#### Attention :

- Before using your transceiver please connect an antenna on the connector PL on back side then check the SWR before emitting. A too important SWR can entail the destruction of the transistors of power which are not flatware by the guaranteee

## ■ KNOW ABOUT THIS RADIO



1	Squelch control, SQ, ASQ switch key
2	Mode/Scan key
3	RF Gain control
4	CH9/CH19/Keypad lock /VOX control/Vox setting
5	Power On/Off, Volume control
6	LCD
7	External speaker Jack 3.5
8	Antenna connector UHF SO239

## ■ HOW TO USE THIS RADIO

### ✕ Power On/Off the radio

1. Turn VOL switch clockwise to power on the radio, the LCD displays the Norms and then displays channel number.
2. Turn VOL switch anti-clockwise, until hear Ka Ta, the radio is powered off.

### ✕ Volume control

Turn clockwise to increase volume, anti-clockwise to decrease volume.

4

5

### ✕ Channel Control

1. Short press microphone [UP] or [DN] to change working channel.
2. Hold microphone [UP] or [DN] can fast change working channel.

### ✕ Squelch level control(O.F to 2.8 level available)

1. Short press [SQ], until LCD displays SQ and then displays X.X, X.X stands for SQ level, the bigger value stands for high squelch level.
2. Short press microphone [UP] or [DN] to change SQ level
3. Hold microphone [UP] or [DN] can fast change SQ level.
4. Hold [SQ] or wait for 3 seconds to store and exit.

**Note:** The higher SQ level selected, the stronger signal required to open speaker and hear the calling.

### ✕ ASQ control(A.1-A.9 level available)

1. Hold [SQ] key, until LCD displays AQ, the ASQ function turned on. The LCD will display "A.X", X stands for the ASQ level, the bigger value stands for high squelch level.
2. Short press microphone [UP] or [DN] to change ASQ level
3. Hold microphone [UP] or [DN] can fast change ASQ level.
4. Hold [SQ] or wait for 3 seconds to store and exit.

**Note:** The higher ASQ level selected, the stronger signal required to open speaker and hear the calling.

### ✕ Mode control

1. Short press [A/F] key to switch between AM /FM mode.
2. The LCD displays the selected mode.

### ✕ RF Gain control

1. Short press [RFG] key, LCD displays R and the present RF gain level flashes.
2. Short press microphone [UP] or [DN] to change level.
3. Short press [RFG] key to exit RF gain level control.

**Note** When RFG function is on the LCD displays R if RFG level is 6 means the attenuation is 6 dBm.

### ✕ Emergency Channel

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.

### ✕ Keypad Lock

1. Hold EMG key for over 2 seconds to lock the keys, LCD displays "LC".

6

2. Hold EMG key for over 2 seconds again to unlock the keys, LCD displays OF. **Note In lock Mode all keys except PTT is valid.**

### ✕ VOX control

1. Press and hold [PTT] switch;
2. Short press [EMG] key to activate or deactivate the VOX function. "☺" is displayed when the function is active.

▲ **Note:** The VOX function allows transmitting by speaking into the original microphone without pressing the PTT switch. In order to prevent the VOX function from being triggered by mistake, the radio will automatically turn off the VOX function after it is powered off. In vox mode, the squelch must always be activated.

### ✕ VOX setting

1. Turn on the power while pressing [EMG] key to enter VOX function setting. "☺" flashes in the LCD.
2. Short press [EMG] key to choose wanted setting.
  - LX: stands for sensitivity level, allows the adjustment of the microphone for an optimum transmission quality. Adjustable level form 1 (high sensibility) to 9 (low sensibility)
  - TX: 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 form 1 (short time delay) to 9 (long time delay)
3. Short press microphone [UP] or [DN] to set desired level.
4. Hold [EMG] key to store and exit setting.

### ✕ Scan function

1. Hold [A/F] to start scan function, "SC" flashes in the LCD;
2. Press microphone [UP] or [DN] to change scan direction during scan;
3. Press [A/F] or [PTT] key to exit scan function.

### ✕ Norms control

1. Hold [A/F] to power on radio, until LCD displays the norms;
2. Press microphone [UP] or [DN] to choose wanted norms;
3. Power off and power on again.

### ✕ Install external speaker

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

### ✕ Resume factory default

1. Hold [SQ] key to power on radio, until the LCD displays RT, the resume finish.
2. All channel and function setting will resume factory default after above operation.

7

■ SPECIFICATION

GENERAL		
Modulation Mode	AM/FM	
Frequency Range	26.965-27.405MHz	
Frequency Tolerance	0,005%	
Input Voltage	13.2V	
Dimensions(In mm)	10,2 x 10 x 2,5cm	
Weight	470g	
Ferquency Control	PLL Synthesizer	
Operating Temperature Range	-20°C to +50°C	
Current Drain	Transmit	2A MAX
	Receive	Squelched 0,3A
	VOL Max	0,8A
Antenna Connector	UHF,SO-239	

TRANSMITTER	
Power Output	4 Watts FM/AM
Transmission interference	inferior to 4nW(-54dBm)
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
Frequency Response	300-3000Hz

**CONDITIONS OF GUARANTEE**

Our transceivers CRT SUPERSTAR are guaranteed on 2 year. The other equipments: 6 months.

Any abnormality of functioning must be indicated to your retailer, who will intervene or will send it to our technical service for control.

The spare parts of our devices are the object of no sending under guarantee.

Are excluded of the guarantee:

- The damages caused by accidents, shocks, natural elements (lightning, thunderstorm, static electricity etc.)
- The transistors of power, the microphones, the fuses, the bad uses: badly adjusted antenna (too excessive), inversion of polarity, surge, bad connection etc. recognized by our technical service.
- The interventions having modified the standards of approval of the device.

**PROCEDURE ON RETURNING TO THE AFTER-SALES SERVICE CRT**

- If you send back a radio under guarantee for repair: You must pay the freight costs to go. CRT will pay the freight costs return.

If the radio is not under guarantee postal charges are at your expense.

- Each device must be sent accompanied with a photocopy of the invoice as well as with a descriptive note of the noticed defect.

If our AFTER-SALES SERVICE estimates the repair more expensive than the value of the device, this one will send you an estimate which must have returned to him accepted or refused. If the estimate is refused, the device will have carriage forward return.

8

9



**DECLARATION OF CONFORMITY No 200204**



We hereby declare under our responsibility that the product :

BRAND : CRT  
 Model : ONE  
 Description : Mobile CB Radio

Satisfies all the technical regulations applicable to the product within the scope of directive RED 2014/53/EU european standarts

EN 62368-1:2020/A11:2020 EN IEC 62311:2020 ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-13 V1.2.1 ETSI EN 300 433 V2.1.1
--

C.R.T. FRANCE INTERNATIONAL S.A.S.  
 Route de Pagny - 21250 SEURRE - FRANCE  
 Capital de 1 300 000 euros  
 Tél. 03 80 26 91 91 - Fax: 03 80 26 91 00  
 E-mail : superstar@crfrance.com  
 Web site : www.crfrance.com

M. CELESTRANO E.  
 PRESIDENT  
 Le 22.03.2022



RoHS