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CRT® S 8040

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



OWNER'S MANUAL

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CE0678



SYMBOLS DESCRIPTION

Please carefully read the instructions



Information on recycling, 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



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 R&TTE 1999/5/CE documents n° EN 301 489-13 / EN 62 311 / EN 300 433 / EN 60 950.

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 $+60^{\circ}\text{C}$, 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 5A 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 guarantee



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WARNING

Please install the antenna (connect to the location (B) in the back panel of the radio) and set the SWR (Standing Wave Ratio) before transmitting. Otherwise it may result in destruction of the power amplifier, which is not covered by the guarantee.

Welcome to use

CRT S 8040 is a Multi-norms and multi-function CB radio which provides you with top performance.

With the use of SMT technology to guarantee the best stability, reliability and unprecedented quality, CRT S 8040 is a new step in personal communication and is surely the best choice for professional users of CB radios. Moreover, it adopts flash CPU in the radio, which makes CRT S 8040 ready for future upgrading and functions expanding. To ensure that you use the radio to the fullest, please read this manual carefully before installing.

RBSBT

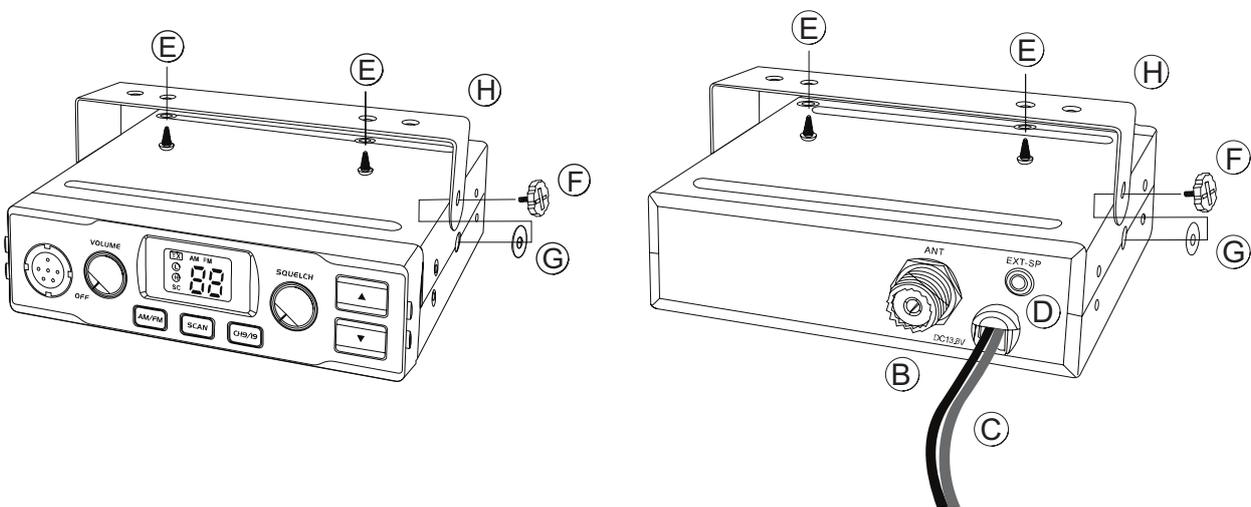
Hold key (7) [CH9/. 9] to power on the radio, it will reset and all channel data will resume factory default setting.



INSTALLATION

Where And How To Mount Your Mobile CB Radio

- A) You should choose the most appropriate setting from a simple and practical point of view.
- B) Your CB radio should not interfere with the driver or the passengers.
- C) Remember to provide different wires for the passing and protection (e.g.: power, antenna, accessory cabling) so that they do not in any way interfere with the driving of vehicles.
- A) To install your equipment, use the cradle (H) and the self-tapping screws (E) provided (drilling diameter 4 mm). Take care not to damage the vehicle's electrical system while drilling the dash board.
- E) Do not forget to insert the rubber joints (G) between the CB and its support as these have a shock-absorbing effect which permits gentle orientation and tightening of the set.
- F) Choose where to place the microphone support and remember that the microphone cord must stretch to the driver without interfering with the controls of the vehicle.
- G) As the transceiver has a frontal microphone socket, it can be set into the dash board. You will need to add external loud speaker to improve the sound quality of communications (connector ext. SP situated on the back panel (D)).
Ask your dealer for advice on mounting your CB radio.



Antenna Installation

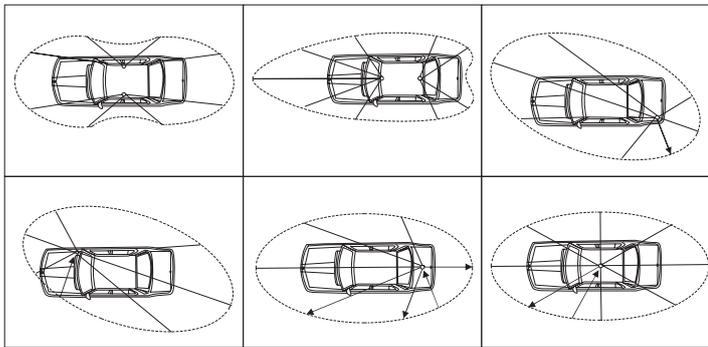


a) Choosing antenna:

- For CB radios, the longer the antenna, the better its results. Your dealer will help you with your choice of antenna.

b) Mobile antenna:

- Must be fixed to the vehicle where there is a maximum of metallic surface (ground plane), away from windscreen mountings.
- If you already have a radio-telephone antenna installed, the CB antenna should be higher than this.
- There are two types of antenna: Pre-regulated antenna which should be used on a good ground plane (e.g. car roof or lid of the boot), and adjustable antenna which offer a much larger frequency range and can be used on a smaller ground plane.
- For an antenna which must be fixed by drilling, you will need a good contact between the antenna and the ground plane. To obtain this, you should lightly scratch the surface where the screw and tightening star are to be placed.
- Be careful not to pinch or flatten the coaxial cable (as this runs the risk of break down and/or short circuiting).
- Connect the antenna to location (B).



Output Radius Patterns

c) Fixed antenna:

A fixed antenna should be installed in a space as spacious as possible. If it is necessary for you to fix the antenna to a mast, you need to keep it as per the requirements of the laws in force (please turn to professional advice).

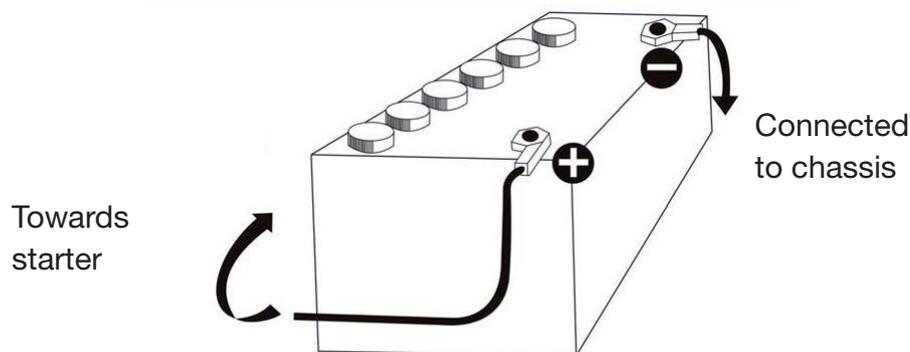
Power Connection



This is protected against an inversion of polarities. However, before switching it on, you are advised to check all the connections. Your equipment must be supplied with a continued current of 12 volts (A). Today, most cars and lorries are negative earth. You can check this by making sure that the negative terminal of the battery is connected either to the engine block or to the chassis. If this is not the case, you should consult your dealer.

WARNING: Lorries generally have two batteries to supply a voltage of 24V. In this case it will be necessary to insert a 24V/12V converter into the electrical circuit. The following connection steps should be carried out with the power cable disconnected from the set

- a) Check whether the battery is of 12 volts.
- b) Locate the positive and negative terminals of the battery (+ is red and – is black).
Should it be necessary to lengthen the power cable, please use the same or a superior type of cable.
- c) It is necessary to connect your CB to a permanent (+) and (–). We advise you to connect the power cable directly to the battery (as the connection of the CB cable to the wiring of the car-radio or other parts of the electrical circuit may, in some cases, increase the possibilities of interference).
- d) Connect the red wire (+) to the positive terminal of the battery and the black (–) wire to the negative terminal of the battery.
- e) Connect the power cable to your CB radio.



WARNING: Never replace the original fuse (5A) by one of a different value.

Basic Operations

- a) Connect the microphone.
- b) Check the antenna connections.
- c) Turn the set on by turning the volume knob clockwise.
- d) Turn the squelch knob to minimum (Full-anti clockwise).
- e) Adjust the volume to a comfortable level.
- f) Go to channel 20@EC by using either the [▲] or [▼] key.



Adjustment Of SWR (Standing Wave Ratio)

WARNING: This must be carried out when you use your CB radio for the first time (and whenever you re-position your antenna). The adjustment must be carried out in an obstacle-free area

Adjustment should be operated with external SWR meter.

a) To connect the SWR meter

Connect the SWR meter between the CB radio and the antenna as close as possible to the CB radio (use a maximum of 40cm cable)

b) To adjust the SWR meter

- Set the CB to channel 20@EC band in FM
- Put the switch on the SWR meter to position CAL or FWD
- Press the <<Push-To-Talk>> switch on the microphone to transmit.
- Bring the index needle to ▼ by using the calibration key.
- Change the switch to position SWR (reading of the SWR level)

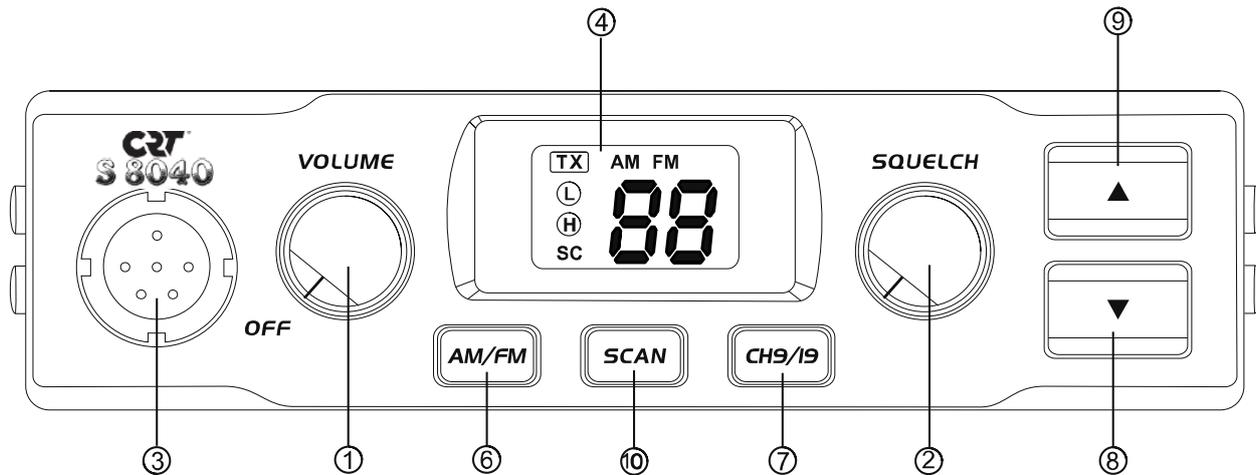
The reading on the meter should be as near as possible to . . If this is not the case, re-adjust your antenna to obtain a reading as close as possible to . .

(An SWR reading between . and . .8 is acceptable).

HOW TO USE YOUR CB RADIO



Front panel



.) OFF/VOLUME

- a) To turn the set on, turn the knob (.) clockwise.
- b) To increase the sound level, turn the same knob further clockwise.

2) SQUELCH

Manual Squelch: Turn the Squelch knob (2) clockwise to the exact point where all background noise disappears. Please note that this control is fine regulation, if you set this Squelch control to the maximum (fully clockwise), the radio can only receive the strongest signal.

3) Microphone Jack

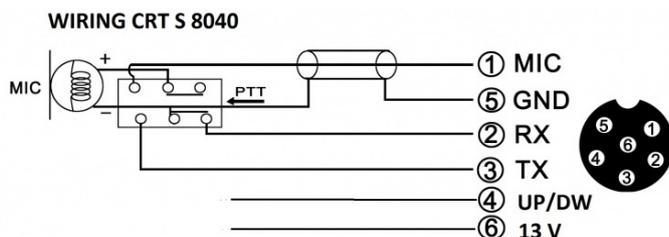
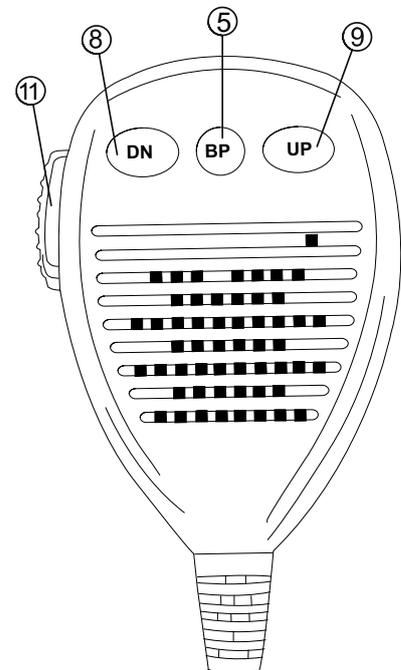
Connect a six pin microphone supplied with radio.

4) LCA

Display for channel, RX/RX status, mode, H/L power, etc.

5) BP (on the Microphone)

If press the call key (5) [BP] while holding the transmit key (. .) [PTT], a calling tone will be transmitted and can be heard by other participants, provided their radio is set to the same channel and the same modulation type.





6) **AM/FM**

Modulation Mode selection: This key (6) [AM/FM] allows selecting the AM or FM modulation. Your modulation mode has to correspond to the one of your correspondent.

With the version Full Multi Norm in the norm UK, you can switch between the EU band and the UK band, which is indicated by symbol "EU" or "UK", by pressing the key (6) [AM/FM]. The CB band EU consists of the 40 CEPT channels.

The CB band UK consists of 40 channels starting from 27.60. 25 MHz to 27.99. 25 MHz.

7) **CH9/19**

It contains the priority channels 9 and . 9, press the key (7) [CH9/. 9] once to select priority channel 9, press the key (7) [CH9/. 9] again to set priority channel . 9.

8) **[▼] key** (DN key on the microphone)

Channel down; selected channel downward.

9) **[▲] key** (UP key on the microphone)

Channel up; selected channel upward.

All channels can be selected by channel selector keys (8) or (9). The selected channel is displayed on the LCD. In communication both transceivers (the receiving and transmitting party) need to be in the same channel and under same modulation type.

. 0) **SCAN**

Press the key (. 0) [SCAN] to enable the SCAN function. Before enabling the SCAN function, firstly turn the SQ control clockwise till the background noise is cut out.

Then press the key (. 0) [SCAN], radio will automatically scan all channels and the SC icon will appear on the LCD.

When a signal is detected on a channel, scanning stops on this channel. You can receive the calling, and also, can transmit on this channel by pressing PTT key. If there is no transmission or detected signal on that channel within 5 seconds, radio will start scanning again. To exit the SCAN function, press the SC key or the PTT key.

. .) **PTT** (on the microphone)

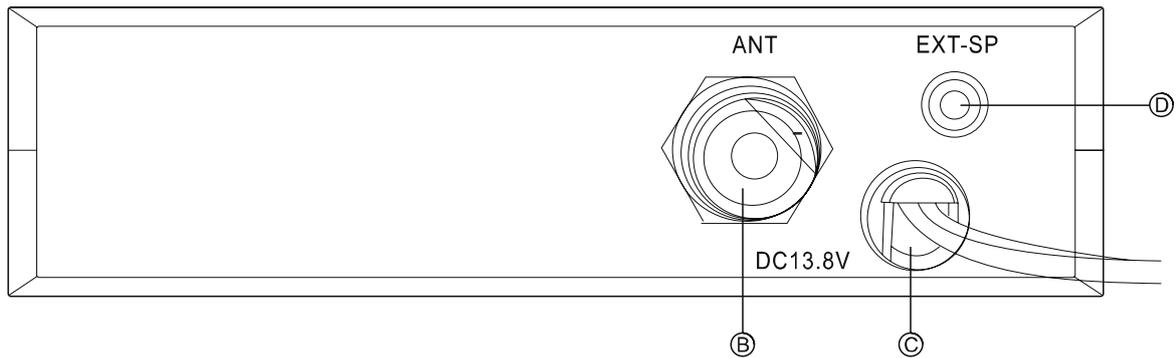
To transmit, press and hold the key (. .) [PTT] and the TX icon will appear on the LCD.

For best quality, please speak normally at a distance of 2 - 4 inches.

Speaking too loudly will cause distortions and make the signal difficult to understand.

On completion of the transmission release the PTT key and the radio will revert to receiving mode.

Rear panel



B) **ANT**

Plug (PL-259) for connecting the antenna with an 50 Ohms coaxial cable.

C) **AC13.8V**

. 3.8 V DC power cord with 5 A fuse.

D) **EXT-SP**

The radio is equipped with a 3.5 mm jack socket (D) at the rear panel to connect an external speaker of 4 - 8 ohm impedance.

At 4 ohms the speaker load can be 4 watts. When the external speaker is connected, the internal speaker will be switched off.

Norm Selection

The version Full Multi Norm can be set by the user to the following norms:



MODE	FM	AM	--
<i>EU</i>	40 Ch (4W)	40 Ch (4W)	BE, BG, CH, CY, DK, EE, ES, FI, FR, GR, IE, IS, IT, LT, LU, LV, NL, NO, PT, RO, SE
<i>PL</i>	-5 KHz 40 Ch (4W)	-5 KHz 40 Ch (4W)	PL
<i>d</i>	80 Ch (4W)	40 Ch (4W)	DE
<i>EC</i>	40 Ch (4W)	—	AT, CZ, HU, MT, SI, SK
<i>U</i>	CEPT 40 Ch (4W) + ENG 40 Ch (4W)	—	GB
<i>In</i>	27 Ch (4W)	27 Ch (4W)	IN

To change current norm, please hold the key (6) [AM/FM] while turning the radio on. In the display, the symbol of the current norm appears, please select the norm by pressing the channel selector key (8) or (9). To verify your selection, turn the radio off and on again, the radio automatically returns to the selected operation mode.

NOTE: The norm is internally set to 40 channels FM, 4 watts only.

Reset

Hold key (7) [CH9/. 9] to power on the radio, it will reset and all channel data will resume factory default setting.



TECHNICAL CHARACTERISTICS

GENERAL

Frequency ranges	26.565 to 27.405MHz
Modulation modes	AM/FM
Antenna impedance	50 Ohms
Power supply	. 3.2V
Dimensions (in mm)	. 50x. 40x4.
Weight	76. g

TRANSMISSION

Carrier power	4W
Frequency error	$\pm 300\text{Hz}$
Emitted power in the adj. channel	inferior to $20\mu\text{W}$
Transmission interference	inferior to 4nW (-54dBm)
Audio response	300Hz to 3kHz in AM/FM
Microphone sensitivity	3mV
Maximum current	max 3A
Modulated signal distortion	inferior to 5%

RECEPTION

Max sensitivity at 20dB sinad	$0.8\mu\text{V}$ to . . 3 dB FM; . $.5\mu\text{V}$ to . 03 dBm AM
Frequency response	300Hz to 3kHz in AM/FM
Adjacent channel selectivity	60dB
Maximum audio power	3W
Squelch sensitivity	Minimum $0.2\mu\text{V}$, -. 20 dBm; Maximum . mV, -47 dBm
Maximum current	0.3A nominal/. .2A maximum



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.

DECLARATION OF CONFORMITY

CE 0678

We hereby declare under our responsibility that the product :

BRAND : CRT

Model : S 8040

Description : Mobile transceiver

**Satisfies all the technical regulations applicable to the product within the scope of
directive R .TTE 1999/5/CE european standarts**

EN 60950-1 +A11

EN 301 489-1

EN 301 489-13

EN 300 433-1

EN 300 433-2

EN 300 135-1

EN 300 135-2

Update : EMF : EN 62311

**The object of the declaration described above is in conformity with the relevant Union harmonization
legislation: Directive 2004/108 / EC (until April 2016) Directive and 2014/30 / EU (from 20 April 2016)**

Notified Body : EMCC DR Rasek GmbH Germany

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Mr CELESTRANO PHILIPPE

GERANT

Le 04/11/2016



RoHS
compliant

