CRT FRANCE

SUPERSTAR
SAS au capital de 1000 000 euros
Route de Pagny
21250 SEURRE - France
TEL. 03 80 26 91 91 - FAX 03 80 26 91 00

E-mail : superstar@crtfrance.com
Web site : www.crtfrance.com

CRT® ALPHA

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

12/ 24V

OWNER'S MANUAL

CONTENTS

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 aera 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 directive RED 2014/53/EU documents n° 62368 - 1, EN 301 489 - 1/ - 13, EN 300 433, EN 62311.

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 13~24V DC power supply.

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 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

1. KNOW ABOUT THIS RADIO
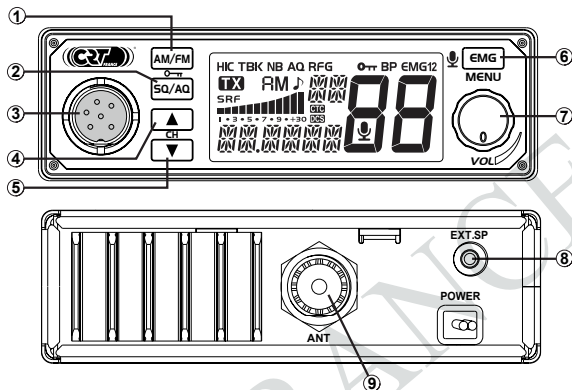
1	Mode/Keypad lock
2	Squelch control, SQ, ASQ switch key
3	Microphone Jack
4	Channel up selector
5	Channel down selector
6	Emergency channel
7	Power On/Off Volume control
8	External speaker Jack
9	Antenna Jack
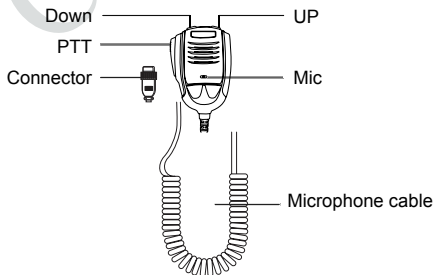
PIN 1 Modulation
PIN 2 Speaker
PIN 3 PTT
PIN 4 Up/Down
PIN 5 Ground
PIN 6 +12 Volt

2. LCD

RF Gain
Automatical Squelch
Noise Blanker
TALKBACK
HI-CUT
Roger Beep
TX
AM/FM mode
TX/RX S-meter
Channel/Frequency/Menu

Key lock
Beep sound
Emergency channel
BAND name
Channel

HIC TBK NB AQ RFG O‑‑ BP EMG12

TX AM ♪
SRF
1 • 3 • 5 • 7 • 9 • +30 CTC DCS
🎤

CTCSS DCS VOX
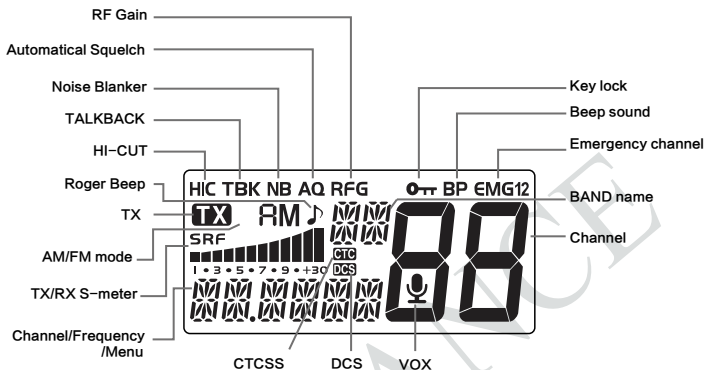
FUNCTIONS AND FEATURES

- AM : MODE AM/FM
- VOX FUNCTIONS (TRANSMIT WITHOUT PRESS PTT) (in Vox function , the squelch must be always engaged)
- AQ: SQ,ASQ FUNCTION
- RFG : RF GAIN FUNCTION – MENU : RFGAIN
- ROGER BEEP – MENU : ROGBP
- NB : NB FUNCTION
- BP: BEEP SOUND – MENU : KEyBP
- HIC : HI - CUT FUNCTION – MENU : HI.CUT
- EMG : EMG CALL – MENU : EMG1 and EMG2
- KEY LOCK FUNCTION
- CTCSS/DCS CODE : MENU : CdTSET
- TBK : TALBACK– MENU : TALBAK
- TX : INDICATES TRANSMISSION
- SRF : TX/RX S - METER
- CHANNEL DISPLAY
- Channel/Frequency/Menu
- LCD with seven background colors and 6 brightness levels (Menu
- Multi frequency norm
- Scan function – Menu : SCM
- ANL/NB function – Menu : ANL/NB
- TOT function – Menu : TOTSET
- Microphone sensivity – Menu : MISET
- Microphone type – Menu : MICTP
- Reset – Menu : RESET
- Automatic 12/24 V switch

3. HOW TO USE THIS RADIO

3.1 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.

3.2 Volume Control ....

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

3.3 Channel Control ....

(1) Short press [**UP**]/[**DN**] key to change channel by one step.

(2) Hold [**UP**]/[**DN**] can fast changed channel.

3.4 [SQ/AQ] ....

※Squelch level Control (short press)

(1) Short press [SQ/AQ] , until LCD displays "SQLSET 08", "08" stands for SQ/AQ level, the bigger value stands for high squelch level.

(2) Short press microphone [**UP**] or [**DN**] to change SQ/AQ level.

(3) Long press microphone [**UP**] or [**DN**] can fast change SQ/AQ level.

(4) Short press [SQ/AQ] or wait for 10 seconds to store and exit.

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

※ASQ Control (long press)

(1) Long press [SQ] , until LCD displays "**AQ**", the ASQ function turned on.

(2) Short press [SQ] , until LCD displays "ASQSET 06", "06" stands for ASQ level, the bigger value stands for high squelch level.

(3) Short press [**UP**]/[**DN**] to change ASQ level.

(4) Hold [**UP**]/[**DN**] can fast change ASQ level.

(5) Short press [SQ] or wait for 10 seconds to store and exit.

(6) Long press [SQ] key again to turn on SQL function.

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

3.5 AM/FM ....

※Mode Control (short press)

(1) Short press AM/FM , key to switch between AM / FM mode.

(2) The LCD displays the selected mode.

※Keypad Lock (long press)

(1) Long press AM/FM key for over 2 seconds to lock the keys, LCD displays
$\mathbf{O_{\pi}}$.

(2) Long press AM/FM key for over 2 seconds again to unlock the keys $\mathbf{O_{\pi}}$
disappears form LCD.

Note: In lock Mode all keys except PTT is valid.

3.6 EMG ....

※Emergency Channel (short press)

(1) First press EMG , key to choose the first programmed emergency channel,
LCD displays **EMG1**.

(2) Second press EMG , key to choose the second programmed emergency
channel.

(3) Third press EMG , key to return to last normal channel, LCD displays
EMG2.

Note: The default emergency channel are channel 9 and channel 19.
See menus Emergency Channel Set page 11 for the emergency channel
configuration.

※Functions (long press)

Long press key to enter in memu and set different function.

3.7 **Scan Function**...

(1) Hold [**UP**]/[**DN**] for over 5 seconds, when you hear /**di di**/, scan started.

(2) Short press [**UP**]/[**DN**] key to change scan direction.

(3) Short press [**AM**]/[**FM**] to change mode, short press EMG or [**PTT**] to exit
scan.

3.8 VOX function..

The VOX function allows transmitting by speaking into the original microphone without pressing the PTT switch.

Press [**PTT**] + [**EMG**] key to activate VOX function, LCD displays microphone icon, and then press [**PTT**] + [**EMG**] key to disable VOX function. The microphone icon disappeared.

Note: When turn on VOX, the mic icon flashes.

3.9 Talkback Level ....

This function allows you to adjust the volume of your walkie−talkie.

(1) Start the intercom function (see "**intercom**" on page 8).

(2) Hold down the PTT switch, then the [up] key increases or the [down] key decreases the Talkback Level

(3) Release PTT switch and save Talkback Level.

3.10 Norms Control ....

(1) Hold AM/FM to power on radio, until LCD displays the norms.

(2) Short press ▲ or ▼ or microphone [UP]/[DN].

(3) Power off and power on again.

MODE	FM	AM	--
EU	40 Ch (4W)	40 Ch (4W)	BE,BG,CH,CY,DK,EE, ES,FI, FR,GB,EL,IE,IS,IT,LT,LU,LV,NO,PT,RO,SE
PL	-5 KHz 40 Ch (4W)	-5 KHz 40 Ch (4W)	PL
DE	80 Ch (4W)	40 Ch (4W)	DE
CE	40 Ch (4W)	-	AT,CZ,HU,MT,SI,SK
U	CEPT 40 Ch +ENG 40 Ch (4W)	-	GB
IN	27 Ch (4W)	27 Ch (4W)	IN
I2	36 Ch (4W)	36 Ch (4W)	IT

🛈

3.11 Install External Speaker ....

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

3.12 Menu Operations ....

(1) Long press **EMG** key to enter menu list.

(2) Short press microphone [**UP**] or [**DN**] or **▲** or **▼** to choose menu to be.

(3) Short press **EMG** key to enter function setting parameter of the chosen function, the parameter blinks on LCD.

(4) Short press microphone [**UP**] or [**DN**] or **▲** or **▼** to choose wanted setting.

(5) Short press **EMG** key to validate the mode and exit setting.

(6) Long press **EMG** key or wait 10 seconds to store exit MENU.

NO.	LCD display	Function detail	Setting details
1	CdTSET	CTCSS/DCS encode/decode	oF: CTCSS/DCS is OFF; CT: 67.0Hz~250.3Hz; DT: D023N~D754N; **Note:** This function is optional.
2	KEYBP	Beep sound	on: turn on beep sound oF: turn off beep sound Default: on
3	SCM	Scan type setting	Sq: squelch scan tl: time scan Default: SQ
4	HICUT	HI-CUT setting	oF: turn off HI-CUT function on: turn on HI-CUT function Default: oF
5	MICSET	Microphone gain	1~9, Total 9 levels Default: 6
6	MIC TP	Microphone type	EL: Electronic dy: Dynamic Default: EL **Note:** Speak into microphone and watch the S-meter to choose wanted mic gain.
7	VOX L	VOX Sensitivity	1~9: total 9 levels Default: 3

NO.	LCD display	Function detail	Setting details
8	$VOX\ T$	VOX Time	1~9: Total 9 levels Default: 4
9	$TAL\ BAK$	Talkback level control	oF, 1~9 Default: oF
10	ANL/NB	Noise blanker	oF: turn off ANL/NB function On: turn on ANL/NB function Default: oF
11	$RF.GAIN$	RF gain level control	Level AU 03,06,09~48 Default: oF Note: If the AUTO RFG function is on, the radio will turn on the automatic RFG function.
12	$ROG\ BP$	RB sound setting	oF, 1-5 oF: turn off RB sound function. Default: oF
13	$COLOR$	Backlight color setting	OR: Orange gr: Green bL: Blue Cy: Cyan yE: Yellow PU: Purple CL: White Default: OR
14	$BRIGHT$	Backlight brighless	Level 1~6 Default: 4
15	$TOTSET$	Time out timer	oF, 1~10Min Default: 1
16	$EMG1$	Priority channel 1	Select a channel (9)
17	$EMG2$	Priority channel 2	Select a channel (19)
18	$RESET$	Reset to factory preset	

[ⓘ]

3.13 Band Name Setting ....

(1) Choose a band to be modified.

(2) Long press [EMG] key to enter menu list.

(3) Short press microphone [**UP**] or [**DN**] or [▲] or [▼] to choose BAND name function memu, LCD displays *ON CONFM*.

(4) Short press [EMG] key, the first digit blinks on LCD.

(5) Short press microphone [**UP**] or [**DN**] or [▲] or [▼] to choose the character of the first digit.

(6) Short press [EMG] key to validate the first digit. The second digit blinks on LCD.

(7) Short press microphone [**UP**] or [**DN**] or [▲] or [▼] to choose the character of the second digit.

(8) Short press [EMG] key to validate the second digit and exit setting.

(9) Long press [EMG] key or wait 10 seconds to store exit MENU.

3.14 Emergency Channel Setting ....

(1) Long press [EMG] key to enter menu list.

(2) Short press microphone [**UP**] or [**DN**] or [▲] or [▼] to choose EMG function memu, LCD displays **EMG1--09 on** or **EMG2--19 on**.

(3) Short press EMG key, the character "on" or character "oF" blinks on LCD.

(4) Short press microphone [**UP**] or [**DN**] or [▲] or [▼] to choose the emergency channel is valid.

 OFF: stands for turn off current emergency channel.

(5) Short press [EMG] key, the band name blinks on LCD.

(6) Short press microphone [**UP**] or [**DN**] or [▲] or [▼] to choose the frequency band.

(7) Short press [EMG] key to validate the frequency band,and the channel blinks on LCD.

(8) Short press microphone [**UP**] or [**DN**] or [▲] or [▼] to choose the channel.

(9) Short press ⟨EMG⟩ key to validate the channel,and the mode blinks on LCD.

(10) Short press microphone [**UP**] or [**DN**] or ⟨▲⟩ or ⟨▼⟩ to choose the mdoe AM or FM.

(11) Short press ⟨EMG⟩ key to validate the mode and exit setting.

(12) Long press ⟨EMG⟩ key or wait 10 seconds to store exit MENU.

3.15 Resume Factory Default ....

(1) Long press ⟨EMG⟩ key to enter menu list.

(2) Short press microphone [**UP**] or [**DN**] or ⟨▲⟩ or ⟨▼⟩ to choose reset function memu, LCD displays $RE\ SET$.

(3) Short press ⟨EMG⟩ key to enter menu selection, $RE\ SET$ falshes in the LCD.

(4) Long press ⟨EMG⟩ key key until LCD only displays $RE\ SET$.

(5) Release ⟨EMG⟩ key, the radio automatically reseted.

📖 CTCSS/DCS codes

No.	Freq. (Hz)	No.	Freq. (Hz)	No.	Freq. (Hz)	No.	Freq. (Hz)
1	67.0	11	97.4	21	136.5	31	192.8
2	71.9	12	100.0	22	141.3	32	203.5
3	74.4	13	103.5	23	146.2	33	210.7
4	77.0	14	107.2	24	151.4	34	218.1
5	79.7	15	110.9	25	156.7	35	225.7
6	82.5	16	114.8	26	162.2	36	233.6
7	85.4	17	118.8	27	167.9	37	241.8
8	88.5	18	123.0	28	173.8	38	250.3
9	91.5	19	127.3	29	179.9		
10	94.8	20	131.8	30	186.2		

1	D023N	27	D152N	53	D311N	79	D466N
2	D025N	28	D155N	54	D315N	80	D503N
3	D026N	29	D156N	55	D325N	81	D506N
4	D031N	30	D162N	56	D331N	82	D516N
5	D032N	31	D165N	57	D332N	83	D523N
6	D036N	32	D172N	58	D343N	84	D526N
7	D043N	33	D174N	59	D346N	85	D532N
8	D047N	34	D205N	60	D351N	86	D546N
9	D051N	35	D212N	61	D356N	87	D565N
10	D053N	36	D223N	62	D364N	88	D606N
11	D054N	37	D225N	63	D365N	89	D612N
12	D065N	38	D226N	64	D371N	90	D624N
13	D071N	39	D243N	65	D411N	91	D627N
14	D072N	40	D244N	66	D412N	92	D631N
15	D073N	41	D245N	67	D413N	93	D632N
16	D074N	42	D246N	68	D423N	94	D654N
17	D114N	43	D247N	69	D431N	95	D662N
18	D115N	44	D252N	70	D432N	96	D664N
19	D116N	45	D255N	71	D445N	97	D703N
20	D122N	46	D261N	72	D446N	98	D712N
21	D125N	47	D263N	73	D452N	99	D723N
22	D131N	48	D265N	74	D454N	100	D731N
23	D132N	49	D266N	75	D455N	101	D732N
24	D134N	50	D271N	76	D462N	102	D734N
25	D143N	51	D274N	77	D464N	103	D743N
26	D145N	52	D306N	78	D465N	104	D754N

European Restrictions

PAYS	CB	RESTRICTIONS	REGLAGE		
GERMANY	YES	80 ch – 4W FM – free use	EC	D	EU
		40 ch – 4 W AM - free use			
		40 ch – 4 W FM – free use			
UK	YES	Cept 40 ch – 4 W FM	EC		
		+ ENG 40 ch – 4 W FM –	UK		
		40 ch 4 W AM-FM			EU
AUSTRIA	YES	40 ch – 4 W FM	EC		
		AM : Not authorized			
BELGIUM	YES	40 ch – 4 W FM - free use	EU	EC	
		40 ch – 4 W AM - free use			
BULGARIA	YES	40 ch – 4 W FM - free use	EC		
		40 ch – 4 W AM - free use		EU	
CYPRUS	YES	40 ch – 4 W FM - free use	EU	EC	
		40 ch – 4 W AM - free use			
CROATIA	YES	40 ch – 4 W FM - free use	EC		
		AM : Not authorized			
DANEMARK	YES	40 ch – 4 W FM - free use	EC		
		40 ch – 4 W AM - free use		EU	
SPAIN	YES	40 ch – 4 W FM – individual license required	E	EC	EU
		40 ch – 4 W AM – individual license required			
		12 W pep BLU/SSB			
ESTONIA	YES	40 ch – 4 W FM - free use	EU	EC	
		40 ch – 4 W AM - free use			
FINLAND	YES	40 ch – 4 W FM - free use	EU	EC	
		40 ch – 4 W AM - free use			
FRANCE	YES	40 ch – 4 W FM - free use	EU	EC	
		40 ch – 4 W AM – free use			
GREECE	YES	40 ch – 4 W FM - individual license required	EU	E	EC
		40 ch – 4 W AM - individual license required			
HUNGARY	YES	40 ch – 4 W FM - free use	EC		
		AM : Not authorized			
IRELAND	YES	40 ch – 4 W FM – free use	EC		
		40 ch – 4 W AM – free use		EU	
ISLAND	YES	40 ch – 4 W FM - free use	EC		
		40 ch – 4 W AM - free use		EU	
ITALY	YES	40 ch – 4 W FM – general autorisation required	E	EC	EU
		40 ch – 4 W AM - general autorisation required			
		12 W pep BLU/SSB			
LATVIA	YES	40 ch – 4 W FM - free use	EU	EC	
		40 ch – 4 W AM - free use			
LITHUANIA	YES	40 ch – 4 W FM - free use	EC		
		AM : Not authorized			
LUXEMBOURG	YES	40 ch – 4 W FM - free use	EC		
		40 ch – 4 W AM - free use		EU	

MALTA	YES	40 ch – 4 W FM - AM : Not authorized	EC	
NORWAY	YES	40 ch – 4 W FM - free use AM : Not authorized	EC	
NETHERLAND	YES	40 ch – 4 W FM - free use		EC
		40 ch – 4 W AM - free use	EU	
POLAND	YES	40 ch – 4 W FM - free use		EC
		40 ch – 4 W AM/FM - free use	PL	
		12 W pep BLU/SSB		
PORTUGAL	YES	40 ch – 4 W FM - free use		EC
		40 ch – 4 W AM - free use	EU	
CZECH	YES	80 ch – 4 W FM - free use	EU	
ROMANIA	YES	40 ch – 4 W FM - free use		EC
		40 ch – 4 W AM - free use	EU	
SLOVAKIA	YES	40 ch – 4 W FM - free use AM : Not authorized	EC	
SLOVENIA	YES	40 ch – 4 W FM - free use	EC	
		40 ch – 4 W AM - free use		EU
SWEDEN	YES	40 ch – 4 W FM - free use		EC
		40 ch – 4 W AM - free use	EU	
SWITZERLAND	YES	40 ch – 4 W FM – free use		EC
		40 ch – 4 W AM -free use		
			EU	
LIECHTENSTEIN	YES	40 ch – 4 W FM – AM : Not authorized	EC	

4. SPECIFICATION

GENERAL		
Modulation Mode		AM/FM
Frequency Range		26.965−27.405MHz
Frequency Tolerance		±5.0ppm
Input Voltage		12/24V
Dimensions		185x124x38mm
Weight		620g
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

FREQUENCIES TABLE

| Channel	IN	D		EU	EC	PL	UK
	1-27	1-40	41-80	1-40	1-40	1-40	1-40
	FM=4W	FM=4W	FM=4W	FM=4W	FM=4W	FM=4W	FM=4W
	AM=4W	AM=4W		AM=4W		AM=4W	
1	26.965	26.965	26.565	26.965	26.965	26.960	27.6013
2	26.975	26.975	26.575	26.975	26.975	26.970	27.6113
3	26.985	26.985	26.585	26.985	26.985	26.980	27.6213
4	27.005	27.005	26.595	27.005	27.005	27.000	27.6313
5	27.015	27.015	26.605	27.015	27.015	27.010	27.6413
6	27.025	27.025	26.615	27.025	27.025	27.020	27.6513
7	27.035	27.035	26.625	27.035	27.035	27.030	27.6613
8	27.055	27.055	26.635	27.055	27.055	27.050	27.6713
9	27.065	27.065	26.645	27.065	27.065	27.060	27.6813
10	27.075	27.075	26.655	27.075	27.075	27.070	27.6913
11	27.085	27.085	26.665	27.085	27.085	27.080	27.7013
12	27.105	27.105	26.675	27.105	27.105	27.100	27.7113
13	27.115	27.115	26.685	27.115	27.115	27.110	27.7213
14	27.125	27.125	26.695	27.125	27.125	27.120	27.7313
15	27.135	27.135	26.705	27.135	27.135	27.130	27.7413
16	27.155	27.155	26.715	27.155	27.155	27.150	27.7513
17	27.165	27.165	26.725	27.165	27.165	27.160	27.7613
18	27.175	27.175	26.735	27.175	27.175	27.170	27.7713
19	27.185	27.185	26.745	27.185	27.185	27.180	27.7813
20	27.205	27.205	26.755	27.205	27.205	27.200	27.7913
21	27.215	27.215	26.765	27.215	27.215	27.210	27.8013
22	27.225	27.225	26.775	27.225	27.225	27.220	27.8113
23	27.255	27.255	26.785	27.255	27.255	27.250	27.8213
24	27.235	27.235	26.795	27.235	27.235	27.230	27.8313
25	27.245	27.245	26.805	27.245	27.245	27.240	27.8413
26	27.265	27.265	26.815	27.265	27.265	27.260	27.8513
27	27.275	27.275	26.825	27.275	27.275	27.270	27.8613
28		27.285	26.835	27.285	27.285	27.280	27.8713
29		27.295	26.845	27.295	27.295	27.290	27.8813
30		27.305	26.855	27.305	27.305	27.300	27.8913
31		27.315	26.865	27.315	27.315	27.310	27.9013
32		27.325	26.875	27.325	27.325	27.320	27.9113
33		27.335	26.885	27.335	27.335	27.330	27.9213
34		27.345	26.895	27.345	27.345	27.340	27.9313
35		27.355	26.905	27.355	27.355	27.350	27.9413
36		27.365	26.915	27.365	27.365	27.360	27.9513
37		27.375	26.925	27.375	27.375	27.370	27.9613
38		27.385	26.935	27.385	27.385	27.380	27.9713
39		27.395	26.945	27.395	27.395	27.390	27.9813
40		27.405	26.955	27.405	27.405	27.400	27.9913

Supplied Accessories

Carefully unpack the Radio, and confirm the following items in addition to this manual:
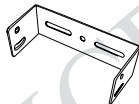
- CB Radio

- Microphone
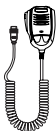
- Mobile installing bracket

- Hardware kits for radio

- Fuse

- Manual

- Microphone bracket

Mobile Installation

Safety and convenience are the primary consideration for munting any piece of mobile equipment.All controls must be readily available to the operator without interfering with the movements necessary for safe operation of the vehicle.Be sure all cables are clear of the brake,clutch and accelerator.Also,thought must be given to the convenience and comfort of passengers.

Refer to the figures as follow:
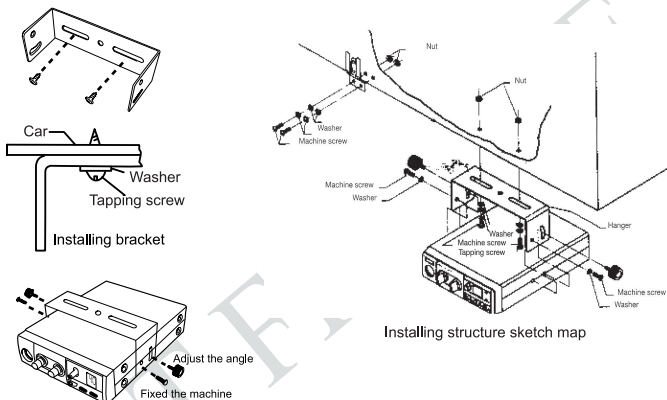
The transceiver may be installed in any position in your car, where the monitor and microphone are easily accessible and it does not interfere with the safe operation of the vehicle. If your vehicle is equipped with airbags, be certain your radio will not interfere with their extension. If you are not certain about where to install the unit, contact your vehicle's manufacturer.
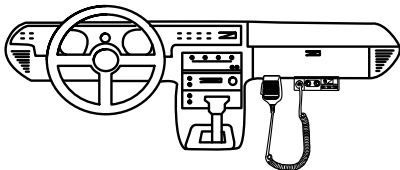
ANTENNA INSTALLATION

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).

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

The voltage has to be 13,8V or 24 V DC with negative grounding. Ensure that the positive (+, red) and negative (-, black) polarity is correct, before you connect the radio. The wiring has to be done by an authorized technician.

Connect the power cable directly with the battery. Do not use a cigarette lighter adapter because this kind of connectivity might not provide enough current for a proper operation of the radio. Pay special attention to the correct polarity, when connecting the cable into the battery.

CAUTION : please ensure proper polarity - check the fuse before first use of the radio.

Missed or defect fuses need to be replaced before operation of the radio.

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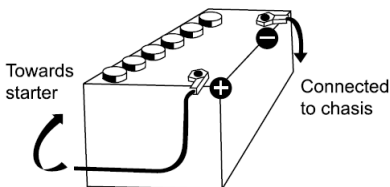
BASIC OPERATIONS

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 reposition 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 1. If this is not the case, re-adjust your antenna to obtain a reading as close as possible to 1.(An SWR reading between 1 and 1.8 is acceptable).

CONDITIONS OF GUARANTEE

This transceiver **CRT SUPERSTAR** is guaranteed on 2 years.
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 (tos excessive), inversion of polarité, 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 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 returned.

DECLARATION OF CONFORMITY N° 200240

$C\,\epsilon$

We hereby declare under our responsability that the product :

Brand : CRT
Model : ALPHA
Description : Mobile transceiver

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

EN 62368-1 :2014+A11 :2017
EN 301 489-1 V2.2.1
EN 301 489-13 V1.2.1
EN 300 433 V2.1.1
EN 62311 :2008

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

RoHS
compliant
ISO9001
ISO14001

M. CELESTRANO F.
Président
Le 19.08.2019