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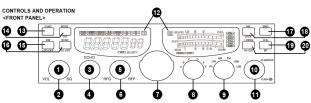
NOTICE

It is recommended to carefully read this owner's manual before using the product. This will also help the user to prevent using the radio in violation of the regulations valid in the country where the product is used, as well as to avoid any possible interferences with other services. This radio is an Annetisur Radio of If transceiver, designed to work on the 80 Met; frequency band reserved to Amateur Radio communication. This is transceiver has been manufactured and factory programmed, in order for the user to operate the radio immediately after purchase. The radio covers the 28 Met; (10 Meter) Amateur Radio Hif requesting band (frequency range 28 000-29 700 Met). The manufacturer is not responsible for any modification to the hardware or software of the product, which might possibly cause the radio to operate illegally and/or out of this frequency range.

Features, specifications, and availability of optional accessories are all subject to change without notice..

Our Thanks to You

Thank you for purchasing our radio. Properly used, this product will give you many years of reliable service. The radio is a is a 10-Meter band Amateur Radio transceiver using advanced hardware and software design radio which provides you with top performance. With the use of SMT technology to guarantee the best stability, reliability and unprecedented quality.



14 MODE

Press "MODE" key, the LCD display is able to swith between frequency and channel mode.

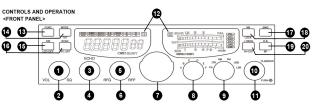
15. DW or LCD OFF

(1) The DW (Asal watch) knotion allows automate alternate monitoring of the channels. Reflet to the following procedures to enable this function. To enable the DW function, firely turn the SD control diclosines until the subsignound races in 6 out. Select the first channel to be monitored by using the CHANNEL SELECTOR knot or the channel selector keys on the microphone. Press the DW key and the DW is consell fished an the LCD display. Secondly, follow the above procedure to select second channel to be monitored. Finally, press the DW key again and the two monitoring channels with be attentiely indicated on the LCD. Rado will automatically start monitoring (scanning) the two channels. When a signal is detected on one of the channels, scanning stokes and to possible to listen the

communications on that channed. Press PTT is transmit on this channel. If there is no transmission or deleted signal on that channel with its second signal or deleted signal on that channel with its second signal or the programmed by PC software). Second will resure scanning can be programmed by PC software), and will resure scanning. When the DM function, press the DM key or the PTT key. The scan Type above is the DM function, press the DM key or the PTT key. The scan Type above is the DM function, press the DM key or the PTT key. The scan Type above is the DM function, press the DM key or the PTT key. The scan Type above is the DM function in deleted, the radio would still staff scanning when it is time to resume scanning, whether there is signal or not numeral channel.

(2) FUNC+DW

When this function is enabled, LCD display would be switched OFF(LCD OFF), Repeat this operation to switch ON/ OFF the function.



16. SCAN OR Scan.list

(1) SCAN

Automatic Scanning of busy channels.

Press the SGAN key 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 SCAN key, radio will submantically scan all channels continuously in the scan list and the SQ icon will appear on the

LCO. When a signal is defected on a channel, scenning stops on his channel. You can receive the calling, and also, can transmit on this channel by pressing PTT lay. If there is no transmission or detected signal on that channel with 5 second-title lor transmission or detected signal on that channel with 5 second-title lor transmission or greatered by PC Softwarel, Indio Wilst schanning again – set the SCAN function, press the SCAN level for the TEV set. The Sam Type above is the SD mode under the SCAN Selection in friction fewou. If most a selected and valid signal is detected, the radio would still start scanning when it is time to resurre scanning, whether there is sainted nor in current channel.

(2) FUNC+SCAN

SC.LIST (Scan ADD or Delete). Press FUNC+SCAN to delete current channel from scan list. The first digit on LCD would display. When Scan function is enabled, the radio would skip the deleted channel. Repeat this operation to Add or Delete channels from scan list.

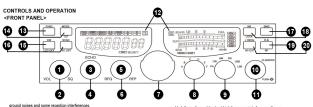
17. EMG

EMG realizes Emergency Channel Call. When emergent situation happens, the radio would switch to the channel set in adverse communicate immediately. Then the "EMG" icon would display on the LCD . Press EMG key again to return to previous channel.

18. NB/ANL or LOCK

(1) Press NB/ANL key to enable NB/ANL function with "NB/ANL" icon appearing on the LCD display. Press the key repeatedly to switch on/ off the function.

Noise Blanker/Automatic Noise Limiter. These filters allow reducing back



ground noises and some reception interferences

(2) FUNC+NB/ANL

Press FUNC+NBIANL to realize the Keyboard Look function. When this function is enabled, all keys are invalid except PTT, BAND SWITCH, and MODE SWITCH. When pressing any key except PTT, BAND SWITCH, MODE SWITCH, the LOCK icon will display on the LCD. These situations indicate that the keyboard has been locked.

Press FUNC+NB/ANL repeatedly to switch on/off the function.

19 +10KHZ or HI-CUT

(1) +10KHZ Press this key to shift frequency up by 10khz.

When pressing this key, 10KHZ would appear on LCD and frequency of channels is shifted up by 10 KHZ. Repeat this operation to switch ON/OFF this function.

(2) FUNC+ +10KHZ

Press FUNC+10KHZ to realize HI-CUT function. Once this function is

enabled, the radio would cut out high frequency interference. Its use depends on reception conditions.

When this function is enabled, "HI-CUT" would appear on LCD. Repeat this operation to switch ON/OFF the function

20. ROGER BEEP OR BEEP FUNCTION

(1) RB

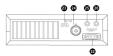
Press "RB" key to enable "ROGER BEEP" function with "RB" icon appearing on LCD display, Press the key repeatedly to switch onloff the function. When RB function is enabled, the radio will automatically transmit the audio signal at the end of your transmission. The listener can note easily that your transmission is over through the signal.

(2) FUNC+RB

Press FUNC+RB to realize BP Function. It is a prompting function with "BP" icon appearing on LCD display. Speaker would emit a BEEP for prompting when press any key, press FUNC+RB repeatedly to switch on/off the function.

Controls and Operation - Function Menu Setup

<REAR PANEL >



22 POWER

Accept 13 BVDC power cable with built-in fuse (10 Amp) to be connected. 23. PC program port

This port for PC program

24. ATTENNA

Accept 50 ohm coaxial cable with a type PL-259 plug to be connected.

25 CW KEY

This lack is for Morse code operation: to operate, connect a CW key to this jack and place the MODE switch in the CW position (LCD display icon "CW") 26 FYT SP or PA SP

FXT SP

Accept 4 to 8 ohm, 4 watt external speaker to be connected. When external speaker is connected to this lack, the built-in speaker is automatically disconnected.

PA SP

It is used to connect a PA speaker. Before operating PA, you must firstly connect a PA speaker to this lack.

FUNCTION MENU SETUP

The initial functions and parameter can be changed via the following settings and operations. Please read the following instruction before making any desired amendments

To enter Function Menu: under ON state, press and hold FUNC key for more than 2 seconds, and then release the FUNC key to enter into the Function Menu Setup, Under this condition, press FUNC key to select different functions menu. CHANNEL SELECTOR Switches to change the data of Function Menu

(1) STP (Frequency Tuning Step)



This menu is to set tuning step when adjusting frequency by CLARIFIER knob Options: 5 Hz, 100 Hz, 1 KHz, 10 KHz Default : 5 Hz

(2) CLA (CLARIFIER knob functions setting)

This menu is to set functions turned by CLARIFIER knob. Options are as follows:

FIN: Fine regulation. When this option is selected, users can fine tuning the receiving frequency by rotating the CLARIFIER knob. In tuning process, the transmitting frequency can not be regulated by the knoband "1" icon will appear on the LCD.

RT: When this option is selected, users can regulate the frequency of both transmitting and receiving. In tuning process, "2" icon will appear on the LCD. T: When this option is selected, users can only regulate the transmitting frequency. In tuning process, "3" icon will appear on the LCD.

Default: RT

(3) PUS (PUSH Function Setting)

This menu is to set functions realized via PUSH knob. Options are as

COA: When this option is selected, press PUSH and turn CLARIFIER knob to realize COARSE function.

When pressing this key, "2" icon will appear on far left of the LCD.

Under this condition, rotate the CLARIFIER knob to change frequency of both transmitting and receiving.

T: When this option is selected, press PUSH and turn CLARIFIER knob to change transmitting frequency. When pressing this key, "3" icon will display on the far left of the LCD. Under this condition, rotate the

CLARIFIER knob to change the transmitting frequency only. STP: When this option is selected, PUSH function will change Frequency Tuning Step of CLARIFIER knob. Press this key, then the corresponding frequency bit would blink.

Default : STP (4) ASQ (Automatic Squelch Control)

ASQ control setting. It has same function with AQ button on the microphone.

(5) TOT (Transmitting Time-Out-Timer)



This menu is to set transmitting TOT time. When pressing PTT key at a single time longer than the due time setup in advance, the radio would stop

transmitting automatically and loudspeaker will emit voice prompt till PTT
key is released. Then, the radio can transmit again.

Options: 30-600s / Step: 30s

Default : 180s (6) SC Scanning Type Selection



This menu is to set Scan Type, Options are as follows :

SQ: When SQ is selected, scan would stop when a valid signal is detected. The radio would resume scanning after signal disappears

for 5s.

TI: When TI is selected, scan would stop when a valid signal is detected.

The radio would resume scanning 5 seconds later, whether signal disappears or not.

Default: SO

(7) TSR (Transmitting SWR Protection)



This menu is to choose whether to enable Transmitting SWR Protection function or not.

4

ON: When ON is selected, the oxide will detect the SNR of a sterious Once the SNR is beyond the SNR set in advance, the radio would probabl transmitting advantatelay and bodyposeler will ently voice prompt. Then, "115" from will disality on the LCD to sensel you that the advances SNR is sollow) beyon arterized not concert well. OFF: When OFF is selected, SNR Protection function is disabled. NOTE: To protect the root born long transmission under high SNR, the radio would subcombically start SNR Protection once the SNR.

(8) TDC (Power Supplied Voltage Protection)

Default : ON (SWR=<10:1)

This menu is to choose whether to enable Power supplied Voltage

ON: When ON is selected, the radio will detect the supplied voltage. Once the voltage surpasses the voltage setup in advance, the radio would display "DC LO" or "DC HI" to remind you that the voltage is not in normal state. Meanwhile, the radio will prohibit transmitting and emit been prompt.

OFF: When OFF is selected, the Power Supplying Voltage is disabled. Default: ON (DC 10.5V-16V)

(9) TLD (Content displayed on the LCD when transmitting)

This menu is to set the content displayed on the LCD when transmitting.

TF: When TF is selected, LCD would display transmitting frequency when transmitting.

SR: When SR is selected, LCD would display SWR value of antenna when transmitting, for example: "1.2" on the LCD.

BAT: When BAT is selected, LCD would display Supplied Voltage when transmitting, for example: "13.8DC" on the LCD.

TOT: When TOT is selected, LCD would display TOT remaining time when transmitting. And TOT would count down till remaining time is 0, for example: "170" displayed on the LCD display.

Default : TF

(10) RBF (ROGER BEEP Frequency Setting)



This menu is to select frequency of Roger Beep. The frequency range is 300KHz - 3KHz. The shift step is 10Hz. Default: 1050Hz

(11) RBT (ROGER BEEP Holding Time)

Function Menu Setup

This menu is to select Roger Beep Holding

Time from 50ms - 1000ms. The shift step is 50ms.

Default : 500ms

(12) CFR (CW Side Tone Frequency)



This menu is to select CW Side Tone

Frequency from 300Hz - 3KHz, the shift step is

10Hz. Default: 1050 Hz

(13) TON (Transmitting Single-Tone Frequency)



This menu is to select Transmitting Single-Tone

Frequency from 300Hz - 3KHz. The shift step is

10 Hz. Default: 1050Hz

(14) NOG



It refers to TX MON function. Users can set the volume and grade of the TX MON by software.

The higher grade goes to louder TX MON. 64 grades in total (OFF, 0-63). Default : 31 $\,$





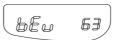
This menu is to adjust the side voice of CW SIDE VOL CW. 64 grades in total. Default: 31.

(16) ICG



This menu refers to MIC GAIN function. Users can set the value by software. The higher value goes to higher sensitivity. 64 grades in total (OFF, 0-63). Default: 31

(17) BEU



This menu is to set the volume of prompt voice. 64 grades in total (OFF,0-63). Default: 31

(18) PA



This menu is to set the volume of prompt voice. 64 grades in total (OFF,0-63). Default: 31

Specifications

| GENERAL | | RECEIVER | | |
|-------------------------|---|--|---|--|
| Frequency | 28.000 - 29.700 MHz (24.500 - 30.105 MHz) (*) | Sensitivity (12dB Sinad) | SSB: 0.25µV for 10dB (S+N)/N at greater | |
| Frequency Bands | A/B/C/D/E/F | | than 1/2W of audio output | |
| Channels | 80 Channels (programmable) in each band | | AM: 1.0µV for 10 dB (S+N)/N at greater | |
| Frequency Control | Phase-Locked-Loop Synthesizer | | than 1/2W of audio output | |
| Frequency Step | 5 Hz - 100 Hz - 1 KHz - 10 KHz | | FM: 1.0+µV for 20 dB (S+N)/N at greater | |
| Frequency Tolerance | 0.005% | | than 1/2W of audio output | |
| Frequency Stability | 0.001% | Selectivity | AM/FM: 6dB at 3 KHz / 50dB at 9KHz | |
| Temperaure Range | -30°C to +50°C | | SSB: 6dB at 2.1 KHz / 60dB at 3.3KHz | |
| Microphone | Plug-in Dynamic with PTT / UP / DN | IF Frequency | AM/FM: 10.695 MHz 1st IF, 455 KHz 2nd IF | |
| | switch and coiled cord | | SSB: 10.695 MHz | |
| Input Voltage | 13.8V normal / 15.9V max. / 11.7V min. | Adjacent Channel | 60dB AM/FM / 70dB SSB | |
| Current | Drain 5A (TX AM Full Mod.) / 9A (SSB 30W PEP) | RF Gain Control | 45dB adjustable for optimum signal reception | |
| | 0.6A (RX Squelched) | Autom. Gain Control (AGC) | Less than 10dB change in audio output | |
| Size / Weight | 28 x 26 x 6 cm / 2.8 Kg. | | for inputs from 10 to 100,00 µV | |
| Antenna Connector | UHF, SO239 | Squelch Adjustable; | threshold less than 0.5µV. | |
| TRANSMITTER | | Automatic Squelch Control | (AM/FM only) 0.5µV | |
| RF output power | AM/FM/CW 15W, SSB 25W | ANL | Switchable | |
| Modulation | High and Low level Class B | Noise Blanker | RF Type, efective on AM/FM and SSB | |
| | Amplitude Modulation : AM | Audio Output Power | 3W into 8 Ohm | |
| | Varied Capacitance Frequency Modulation : FM | Frequency Response | 300 to 2800 Hz | |
| Inter-modul, Distorsion | SSB: 3rd order, more than -25dB | Built-in Speaker | 8 Ohm, round. | |
| | 5th order, more than -35dB | External Speaker | 8 Ohm; disables internal speaker when connected | |
| SSB Carrier Suppr. | 55dB | | (not supplied) | |
| Unwanted Sideband | 50dB | | | |
| Frequency Response | AM and FM; 450 to 2500Hz | (*) M-8800E (INTERNATIONAL VERSION) 24.500 - 30.105 MHz (not available for Europe) | | |
| Impedance | 50 Ohm, unbalanced | | | |

Notice

IMPORTANT

READ ALL INSTRUCTIONS

Carefully and completely before using the transceiver.

SAVE THIS INSTRUCTION MANUAL

This instruction manual contains important oper ating instructions for the T-RANSCEIVER.

EXPLICIT DEFINITIONS

| WORD | DEFINITION | | |
|-------------------------------------|---|--|--|
| △WARNING | Personal injury, fire hazard or electric shock may occur. | | |
| CAUTION Equipment damage may occur. | | | |
| NOTE | If disregarded, inconvenience only. No risk of personal injury, fire or electric shock. | | |

PRECAUTIONS

WARNING! NEVER connect the transceiver to an AC outlet. This may pose a fire hazard or result in an electric shock.

WARNING! NEVER operate the transceiver while driving a vehicle. Safe driving requires your full attention—anything less may result in an accident.

NEVER connect the transceiver to a power source of more than 13.8 V DC. This will damage the transceiver.

NEVER connect the transceiver to a power source using reverse polarity. This will damage the transceiver.

NEVER cut the DC power cable between the DC plug and fuse holder. If an incorrect connection is made after cutting, the transceiver may be damaged.

NEVER expose the transceiver and microphone to rain, snow or any liquids. The transceiver and microphone may be damaged.

NEVER operate or touch the transceiver and microphone with wet hands. This may result in an electric shock or damage the transceiver and microphone.

NEVER place the transceiver where normal operation of the vehicle may be hindered or where it could cause bodily injury.

DO NOT push the PTT when not actually desiring to transmit.

DO NOT allow children to play with any radio equipment containing a transmitter.

DO NOT operate the transceiver for extended periods without running the vehicle's engine. The transceiver's power consumption may soon exhaust the vehicles battery.

DO NOT use or place the transceiver in direct sunlight or in areas with temperatures below –10°C or above +60°C.

DO NOT set the transceiver in a place without adequate ventilation. Heat dissipation may be affected, and the transceiver may be damaged.

DO NOTt use the chemical agents such as benzine or alcohol when cleaning, as they can damage the transceiver's surfaces.

1 WHERE AND HOW TO MOUNT YOUR RADIO

- a) You should choose the most appropriate setting from a simple and practical point of view.
- b) Your radio should not interfere with the driver or the passengers.
- c) Remember to provide different wires for passing and protection. (e.g.:power, antenna, accessory cabling) so that they do not in any way interfere with the driving of vehicles.
- d) To install your equipment, use the cradie (1) and the self-tapping screws [2] provided (drilling diameter 5 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 [3] between the radio and its sup-
- port 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 m
- c) Choose where to place the microphone support and remember that the m icrophone cord must stretch to the driver without interfering with the controls of the vehicle.

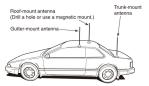


ANTENNA INSTALLATION

Antenna location

To obtain maximum performance from the transceiver, select a high-quality antenna and mount it in a good location.

A non-radial antenna should be used when using a magnetic mount



ANTENNA INFORMATION

For radio communications, the antenna is of critical importance, to maximize your output power and receiver sensitivity. The transceiver accepts a 50 Ω antenna and less than 11.5 of Voltage Standing Wave Ratio (VSWR). High SWR values not only may damage the transceiver

Connection

Antenna connector

The antenna uses a PL-259 connector



(1) Slide the coupling ring down. Strip the cable lacket



2 Strip the cable as shown at left. Soft solder the center



onto the connector body

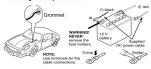
NOTE: There are many publications convering proper antennas and their installation. Check with your local dealer for more information and recommendations. Connects a 500 antenna with a PL-259 connector and a 50 0 coaxial cable

Battery connection

WARNING NEVER remove the fuse holders from the DC power cable.

DO NOT use the cigarette lighter socket for power connection. Attach a rubber grommet when passing the DC power cable through a metal plate to prevent a short circuit.

Connecting to a DC power source



DC power supply connection

WARNING NEVER remove the fuse holders from the DC power cable.

Use a 13.8 V DC power supply with at least 10 A capacity. Make sure the ground terminal of the DC power supply is grounded.

Connecting to a DC power supply



Packaging and Reset and Band

CONTENT OF THE PACKAGING

Please check that all the following items are contained in the packaging :

Main unit (transceiver)

>DC power cord with fuse holder and fuse

>Dynamic microphone

>Car mounting bracket >Car mounting bracket accessories (hardware, knobs, etc.)

>Microphone bracket

>Owner's manual

RESET FUNCTION (Resume Factory Default)

This Radio introduces RESET FUNCTION to prevent accidents and provide a solution for customers who changed some functions unconsciously and do not know how to resume normal settings. The Radio will resume factory default once this function is activated.

How to Operate:

Step 1: Power off the radio.

Step 2: Press and hold FUNC and SCAN keys at the same time, followed by powering on the radio.

Step3: Release the two keys when LCD displays "RES". All former settings would be replaced by Factory Default value when LCD displays "REND" it will take about 10 seconds.

WARNING: All former settings would be replaced by Factory Default value after operating the RESET FUNCTION.

RAND

Band 1: 25.615 to 30.105MHz

Band 2: 28,000 to 29,700MHz Band 3: 24,500 to 25,615MHz

Band 4: 24 890 to 24 990MHz

Noted: Only Band 2 allow use in Europe



How to select Band

- 1. Press "R.B" key and turn on the radio then enter the band select system
- 2. Rotate "7" switch to select from Band 1 to Band 4

Functions and Features and operations

FUNCTIONS AND FEATURES

- 1 PA CW AM FM USB USB modes
- 2. SWR METER AND DUAL-DIGITAL TUBE FOR CHANNEL DISPLAY
- USE TCXO technology
 Two Big LCD which displays frequency and all kinds of information
- 5. 6 bands in total, with 80 channels at most in each band to be programmed.
- 6. Frequency Tuning Step can be 5Hz, 100Hz, 1KHz or 10KHz.
- 7. Multiple CLARIFIER Operating Modes
- 8. Flexible menu functions and PC programming software to meet varied demands
- 9. ECHO Function
- 10. MIC GAIN AND RE GAIN AND RE PWR ADJUSTMENT
- 10. MIC GAIN A
- 11. SCAN FUNCTION 12. RR FUNCTION
- 13 NB/ANI FUNCTION
- 14 DW DUAL-WATCH FUNCTION
- 15. BEEP VOICE PROMPT
- 16. +10KHZ Function
- 17. SWR, S/RF, DC Voltage display function
- 18. TOT function
- 19. HI-CUT FUNCTION
- 20. EMG CALL 21. SWR PROTECTION
- 22 POWER SUPPLIED VOLTAGE PROTECTION
- 23. Key-Lock Function
- 24 SQ, ASQ Function (FM and AM mode only)
- 25 El front panel
 - D EL front pane

BASIC OPERATIONS TO BE CARRIED OUT BEFORE USING YOUR SET FOR FIRST TIME (without transmitting or using

the <<Push-To-Talk>> switch on the microphone)

- a) Connect the microphone: b) Check the antenna connections:
- $\boldsymbol{c})$ Turn the set on by turning the volume knob clockwise; $\boldsymbol{d})$ Turn the squelch knob to
 - minimum; e) Adjust the volume to a comfortable level; f) Go to channel 20@D band by using either the UP or DN key on the microphone or the rotary knob.

ADJUSTMENT OF SWR (Standing Wave Radio)

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

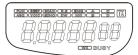
- Adjustment with a built-in SWR meter or external SWR meter
- a) To connect the SWR meter

ree area

- Connect the SWR meter between the radio and the antenna as close as possible to the radio (use a maximum of 40cm cable).
- b) To adjust the SWR meter
- Set the radio to channel 20@D 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).
- It will be necessary to re-calibrate the SWR meter after each

adjustment of the antenna.

CONTROLS AND OPERATION



<LCD 1 DISPLAY>

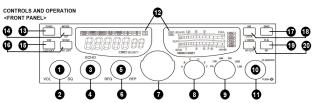
- 1. Seven digits display frequency and any other information.
- 2. FUNC : Appears after pressing FUNC key.
- 3. BEEP : Appears when BEEP function is started (enabled).
- 4. SCAN : Appears after pressing SCAN key.
- 5. R.B.: Appears after pressing R.B. key.
- 6. EMG : Appears after pressing EMG key...
- 7. ASQ: Appears after pressing ASQ key.
- 8. ECHO: Appears after turn on ECHON knob.
- 9. DW : Appears after pressing DW key.
- 10 10K Appears after pressing +10K key 11. TX: Appears when transmit the radio.
- 12. BUSY: Appears when the channel is busy
- 13. The first decimal point : Appears when current channel is edited with SCAN DEL
- 14. A. Appears when CLARIFIER function is FINE operation.
 - B. Appears when CLARIFIER FUNCTION is COARSE operation or RT operation.



- C. Appears when CLARIFIER FUNCTION is transmitting frequency regulated.
- D. The radio is TCXO minimal step 5Hz version, when D apears, mean that the frequency's last number is 5, or it is 0,

<LCD 2. DISPLAY>

- 1. RX : Appears when the radio is receiving.
- 2. NB/ANL: Appears when NB/ANL function is started (enabled).
- 3. HI-CUT : Appears when HI-CUT function is started.
- 4. SWR: Appears when SWR is used.
- 5 RF : Annears when RF is used
- 6. PA. CW. AM. FM. USB. LSB: Indicate different operating modes.



1. OFF/ON/VOLUME (Inner Dual Concentric)

Turn clockwise to switch on the radio and set desired volume level. Under normal operating state, the VOLUME control is used to adjust the output volume obtained either by the transceiver speaker or the external speaker or the external PA speaker, if used.

2. SQUELCH (Outer Dual Concentric)

2. Source: Let (outer utous concentries) the control is used to out off or eliminate receive background noise in the absence of an incoming signal. For maximum receive sensitivity, it is desired that froe control be adjusted only to the point where the receive background noise or ambient background noise a eliminated. Turn fully with a suit of the control of the control of the control of the control of the suit and control of the control of the control of the control of the possibility of the control of the control of the control of the Christian Control of the which a signal must overcome in order to be heard. Only strong signals will be heard at a maximum clocked seation.

3. ECHO (Inner Dual Concentric)

This switch is used to control echo effect.

TONE (Outer Dual Concentric)

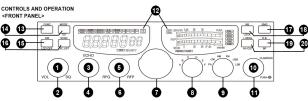
This switch is used to control intervals of echo sound.

5. RF GAIN (Inner Dual Concentric)

This switch is for adjusting sensitivity during reception. For long distance communications RF GAIN should be set to maximum. RF GAIN can be reduced to avoid distortion, when your correspondent is close by and when he does not have RF POWER. The normal setting of this function is on maximum (fully clockwise).

6. RF POWER (Inner Dual Concentric)

Adjustment of the output power is for AM and FM mode only. Reducing the power is allowed when communicating with a person who has no RF GAIN. The normal position of this function is set to maximum, fully clockwise.



7 CHANNEL SELECTOR

Rotate this switch to select any desired channel from eighty citizens band channels

8. BAND SELECTOR

Rotate this switch to select A. B. C. D. E. F band of operation

9. MODE (PA/CW/AM/FM/USB/LSB)

This switch allows selecting the modulation mode PA, CW, AM, FM, LSB or USB. Your modulation mode has to correspond with the one of your correspondent. The mode selector changes the mode of operation of both transmitter and receiver simultaneously.

Frequency Modulation/FM: for nearby communications on a flat open field. Amplitude Modulation/AM: Communication on a field with relief and obstacles in middle distance (the most used).

Upper and Lower Side Band/USB-LSB: Used for long distance communications (according to the propagation conditions).

10 CLARIFIER

This is frequency tuning knob which can be set as different modes (refer to CLA Specifications in Functions Menu for more details).

11. PUSH

This is PUSH Key which can be set as different modes (refer to PSH specifications under Functions Menu for more details)

Display frequency, all kinds of information and icons.

12 LCD DISDLAY 13 FUNC

This is functional key. Press and hold this key for 2 seconds to enter into

Functions Menu Setup (refer to Functions Menu for more details). Press FUNC key and other individual key to realize the second functions silk-screened under the button. For example, press FUNC key followed by pressing RB key to realize the BP function. Press FUNC key followed by DW

to realize the LCD OFF function