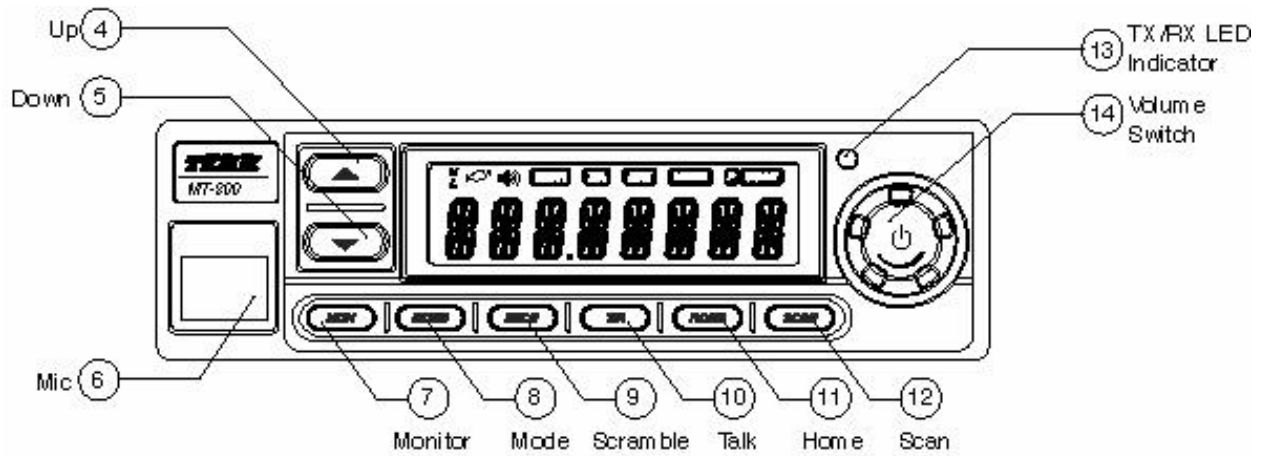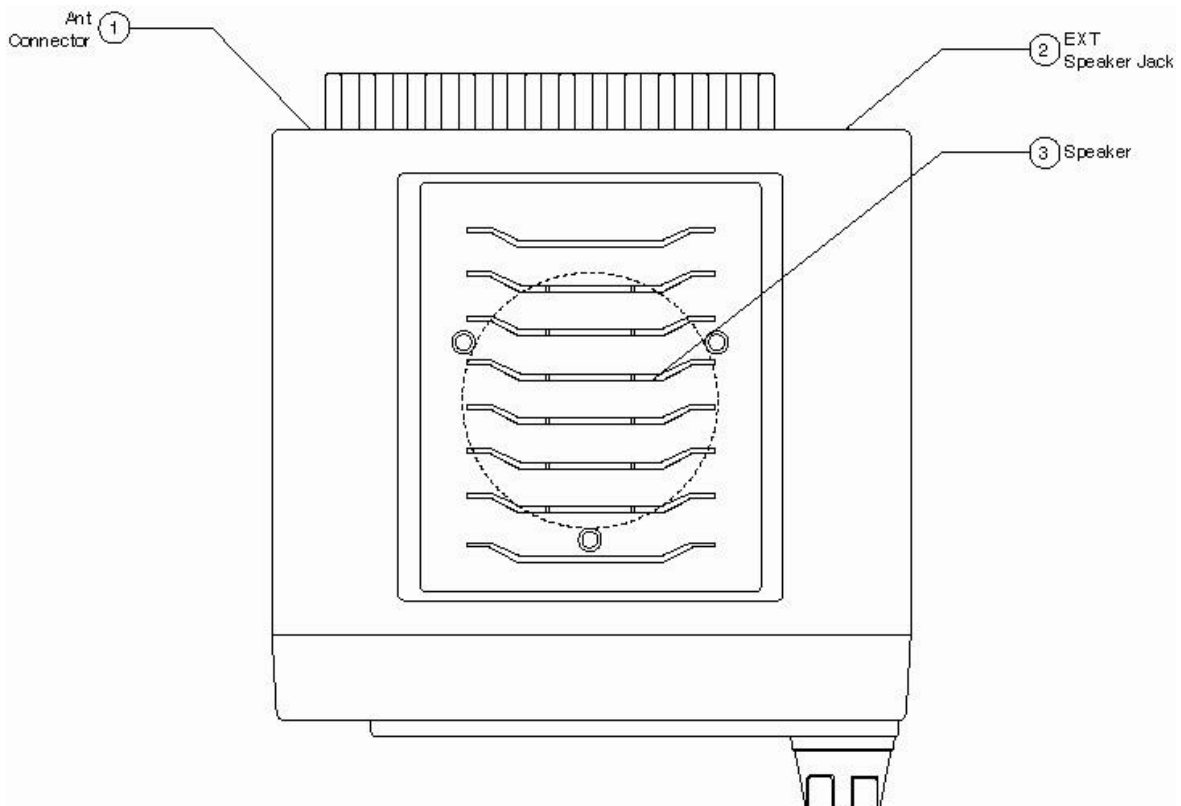# OPERATING FEATURE
1   DISCRIPTION OF CONTROLS
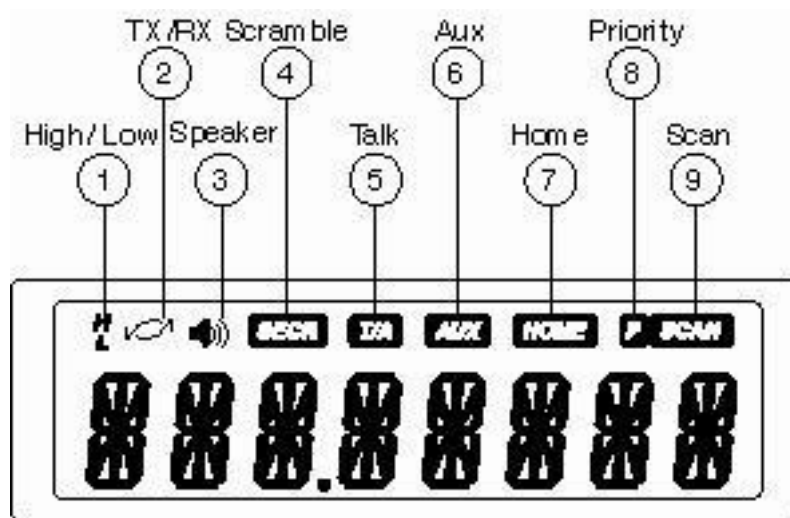

FRONT COVER

TOP COVER

1 **ANTENNA CONNECTOR**

2 **EXTERNAL SPEAKER JACK**

3 **INTERNAL SPEAKER**

4 **UP KEY**

5 **DOWN KEY**

6 **MIC**

7 **MONITOR KEY**

8 **MODE KEY**

9 **SECR KEY**

10 **T/A KEY**

11 **HOME KEY**

12 **SCAN KEY**

13 **DUAL LED INDICATOR**

14 **VOLUME SWITCH**

15 **DISPLAY**

LCD DISPLAY

FUNCTIONS

CTCSS/CDCSS

The MT-900 series in the conventional mode will be capable of all 38 TIA/EIA CTCSS tones, plus up to 11 non-standard CTCSS tones. The MT-900 series will be capable of all TIA/EIA CDCSS codes, normal and inverted.

Channels

The radio will be programmable for up to 32 channels. How the channels are distributed is dependent on Dealer PC Programming.

Talk Around

Talk around is accomplished via the "T/A" button. This feature is dealer programmable on a per channel basis if T/A is to be used or recalled during radio power up.

External Option Port/Connector

The MT-900 series will be capable of sending and receiving data information via a high density 15 connector located at the back of the radio. The high density 15 is to be wired to the option interface internal to the radio and have the following ports:

1. Audio Output
2. TX Tone
3. Busy/SQ
4. Call
5. Monitor
6. PTT
7. RX_Audio_In
8. Alert Tone
9. Call LED
10. MIC Control
11. Audio Mute
12. TX Enable
13. Ground
14. SWB+_Out
15. Horn

P/C Programming

The MT-900 series will be capable of PC programming through the microphone jack for radio operational parameters.

2-Tone Decode

The 2-tone decode capability shall be done in software and will not require an external option board. The Motorola and GE format shall be used. This option shall be available on the dealer PC programming.

ANI

The Automatic Number Identification (ANI) capability shall be done in software and will not require an external option board. The ANI function will be capable of being programmed per each individual conventional System. The ANI DTMF will be up to 16 digits, numbers 0-9 and characters ?, #. The ANI will be programmable to be sent upon PTT or release of PTT.

Time-Out Timer

The MT-800 series is to have a programmable transmit time out timer. Five seconds before time out occurs, the radio sounds an alert tone and be displayed as " TOT". Five seconds later, another alert tone is heard, this time disabling the transmitter. When TX inhibit is used in conjunction with the time out timer, the radio will not be able to transmit for a programmed period of time after time out occurs. An alternating high and low tone is heard if PTT is depressed while in TX inhibit mode. When TX inhibit time has expired, an alert tone is heard and TX can resume. The TX time-out timer is programmable from 10 to 990 sec.

Public Address Mode (PA)

Allows operator to enable an external speaker and transmit microphone audio only. If feasible this option should perform an intercom mode between multiple control heads, microphone audio only.

Programmable Hook

The microphone is to be dealer programmable for hook function by mechanical ground or software.

Nuisance Delete

A channel can be temporarily deleted by entering the monitor key for conventional operation while topped on the channel to be deleted. The channel will remain inactive until radio power is reset.

Busy Channel Lock-Out/Marked Idle

When enabled and the channel is busy a transmission will not be allowed until the channel is clear. When marked idle is enabled if the correct programmed tone is received in conjunction with busy channel lock out a transmission will be allowed. This is for conventional radio operation only.

Minimum/Maximum Volume/Alerts

All audible tones and alerts are to be variable with the volume control of the radio.

FCC Information

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC RF Exposure Compliance

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference. This unit does not contain any user serviceable parts and repairs should only be made by authorized service personnel.

This equipment complies with FCC RF radiation exposure limits set forth for controlled and uncontrolled environments. It is required that the radiating antenna be mounted out of range of personnel (at least 46 centimeters from users and 102 centimeters from the general population) to conform to the requirements of ANSI/IEEE C95.1-1992 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields. This separation distance requires the radiating antenna be mounted to the center of the roof top of vehicles. In addition to this, the operator must cease transmissions when persons are within the safe distance of the antenna.

Power listed for this device is conducted. This device must be restricted to work related operations in an Occupational/Controlled RF exposure Environment. End-Users must be provided with the specific training information. All qualified end-users of this device must have the knowledge to control their exposure conditions and/or duration to comply with Occupational/Controlled limit and requirements.