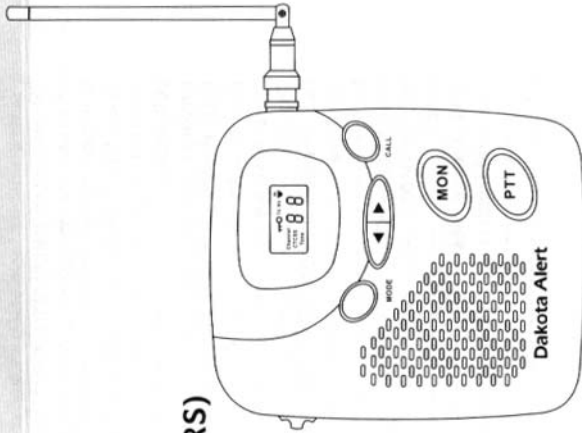


# Dakota Alert™

## Model: M538-BS

Multiple Use Radio Service (MURS)  
Base Station Transceiver

Owner's Manual



## TABLE OF CONTENTS

Warnings .....	3
Contents .....	4
Diagram .....	5
Power Supply .....	6
Transmit and Receive .....	6
LCD Display .....	7
Earphone .....	7
Relay Function .....	7
Operating Range .....	7
Power/Volume .....	7
Channels .....	7
Sub-Channels (CTCSS) .....	8
Call Tone .....	8
Lock .....	8
Push To Talk (PTT) .....	8
Monitor (MON) .....	9
MODE .....	9
MURS Frequencies .....	10
Technical Support .....	10
Warranty .....	11
Address .....	11

## WARNINGS

To maintain compliance with the FCC's RF exposure guidelines, this transmitter and its antenna must maintain a separation distance of at least 2 inches (5 centimeters) from your face. Speak in a normal voice, with the antenna pointed up and away from your face at the required separation distance. To transmit, hold the device away from your body and ensure that the antenna is at least 2 inches (5 centimeters) from your body when transmitting.

This transceiver must have the antenna connected while operating. Failure to connect the antenna can cause damage to the radio.

This device complies with Part 15 of the FCC rules, Operation of this device is subject to the following conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference, including interference that may cause undesired operation.

**CONTENTS:**

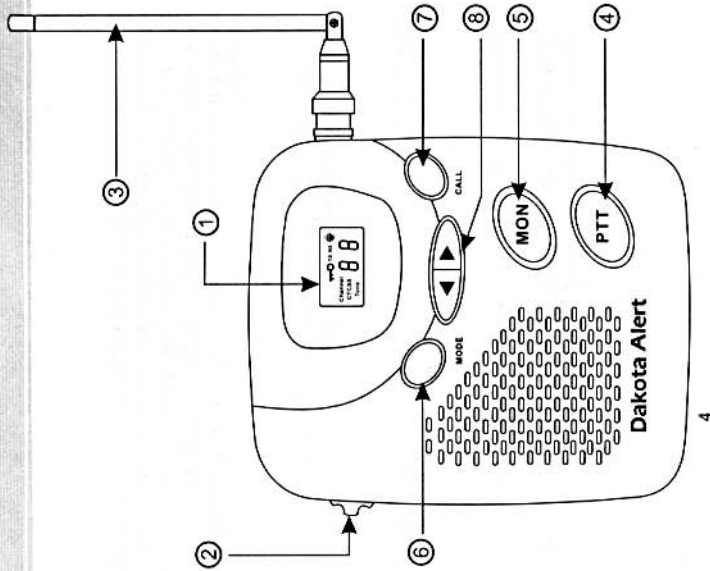
M538-BS

Antenna

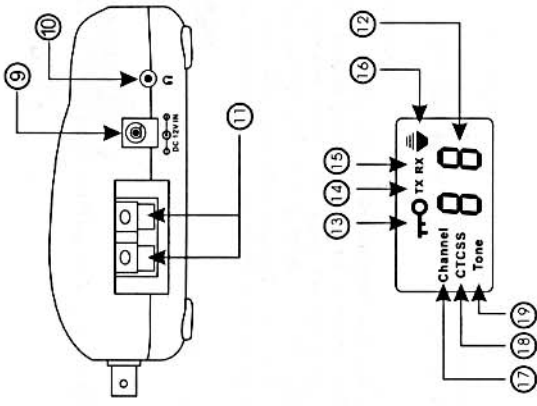
Plug in adapter

**DIAGRAM:**

1. Backlit LCD
2. Power, volume
3. Antenna
4. Push to talk (PTT)
5. Monitor (MON)
6. Mode
7. Up and Down arrow
8. Call



9. Charger port
10. Earphone jack
11. Relay output
12. Numeric display
13. Lock icon
14. TX
15. RX
16. Alert icon
17. Channel
18. CTCSS
19. Tone



**POWER SUPPLY:**

The M538-BS is powered by a transformer that will convert from 120 volt AC to 12 volt DC, with a current capacity of 900mA.

**FUNCTION:**

The M538-BS will operate as a transceiver, meaning it will both transmit and receive messages from other MURS radio units. The M538-BS is equipped to operate on 5 channels, with 38 sub channels. In order to communicate with another MURS radio, the channel and the sub channel must be set alike. The M538-BS also has 4 separate call tones that can be used to page other users before starting a conversation. The M538-BS can also receive an alert signal from the MURS ALERT transmitter. This will notify you of activity at the location of the MURS Transmitter.

The LCD will display channel, CTCSS, Tone, TX, RX, Lock icon ( ), and Alert icon ( ). When the base station is powered up, it will return to the same channel, CTCSS, and tone that it had when it was turned off.

**Earphone.** The M538-BS is equipped with a jack for an earphone.


**Relay Function.** The red and black push button terminals on the back of the base station are a Normally Open (NO) relay. The relay will make closure for several seconds when an alert signal is received from the MURS Alert transmitter. The relay has a capacity of 5A @ 28V DC.


**Operating range.** The M538-BS is capable of communicating up to 2 or more miles. This will vary depending on the local terrain.


**Operation:**

**Power/Volume.** With the transformer plugged into an outlet, you can turn the power on or off by rotating the volume dial on the left side of the base station. This will also control the level of the volume.

**Channels.** You can select the proper channel by pressing the up or down key. The Lock icon ( ) must be deactivated before you can change the channel.

**Sub Channels (CTCSS).** You can select the proper sub channel by pressing the mode button once. This will cause the CTCSS display to flash. You can then select the proper sub channel by pressing the up or down key. The Lock Icon (  ) must be deactivated before you can change the sub channel.

**Call Tone.** You can select between 4 different call tones. You can select the proper call tone by pressing the mode button twice. This will cause the Tone display to flash. You can then select the proper call tone by pressing the up or down key. The Lock Icon (  ) must be deactivated before you can change the call tone. The call tone can be used to initiate a conversation. In order to send a call tone, simply press and release the CALL button. a



**Lock.** The Lock Icon (  ) will indicate that the unit is locked and the channel, sub channel and tone will not be able to be changed. To lock the unit, press and hold the MODE button for 2 seconds. To unlock the unit, press and hold the MODE button for 2 seconds.


**PTT.** The PTT (push to talk) button is used so that you can send a message to another unit. Simply press the PTT button and speak with a clear voice into the base station. When you are done speaking, release the button.

When the PTT is pushed, the TX display will show on the LCD. This means that you are transmitting.

**Monitor.** The MON button will allow you to monitor the channel that you are using. When the MON button is pressed, you will be able to hear an conversations that are occurring on any sub channels. This can be used so that you do not talk over others that are trying to use the channel.

**MODE.**

a. The MODE button is used to control the Channel, CTCSS, Call tone, Lock Icon (  ) and Alert Icon (  ). To lock or unlock the controls, you must press and hold the MODE button for 2 seconds. If the lock icon is not displayed, you can use the MODE button to toggle through the Channel, CTCSS, and Tone functions

b. If the base station has received an alert signal from the MURS ALERT transmitter, the Alert Icon (  ) will be displayed in the LCD. To remove the alert icon, press the mode button for 1 second

**MURS FREQUENCIES:**

Channel	Frequency
1	151.820MHZ
2	151.880MHZ
3	151.940MHZ
4	154.570MHZ
5	154.600MHZ

**TECHNICAL SUPPORT:**

Thank you for your purchase of this Dakota Alert product. If you encounter any difficulty in the operation of this product after reading the manual, please contact us. You can reach us by phone at 605-356-2772 from 8:30 AM to 5:00 PM Monday through Friday (Central Standard Time). We will be happy to answer your questions and help you in any way we can.

**WARRANTY:**

Dakota Alert warrants this product to be free of defects in material and workmanship for a period of one year from the date of purchase. This warranty does not cover damage resulting from accident, abuse, act of God or improper operation.

If this product does become defective, simply return it to Dakota Alert. Please include a note describing the troubles along with your name and return address as well as the original sales receipt. If the product is covered under warranty it will be repaired or replaced at no charge. If it is not covered by warranty, you will be notified of any charges before work is done.

**PLEASE SHIP TO:**

Dakota Alert, Inc.  
112 W. Main St.  
PO Box 130  
Elk Point, SD 57025  
Phone: 605-356-2772  
FAX: 605-356-2584