DF-101

FRS PLL FM TRASCEIVER

INSTRUCTION MANUAL

TABLE OF CONTENTS

I. FRS PRODUCT DESCRIPTION

The Family Radio Service(FRS) is the newest generation in personal two-way communication. FRS Radio operate in a license -free band (no FCC license for operation), on 14 license-free channels.

Deltacom's DF-101 is a lightweight, palmsized two-way radio that yuo can carry almost anywhere. Use it at shopping malls, sporting events, amusement parks, or any other activity where communications are needed for convenience or safety.

The radio provides about a 2miles range of communication-allowing you to keep in touch with family, friends or a neighborhood watch group.

The DF-101 is 14 channels model with the 38 CTCSS subchannels. You can talk to another person using any FRS Radio, provided that you can on the same frequency.

II. DESCRIPTION OF CONTROLS

1. PTT BUTTON
2. MONITOR BUTTON
3. CALL BUTTON
4. LOCK BUTTON
5. FUNCTION BUTTON
6. UP BUTTON
7. DOWN BUTTON
8. LCD DISPLAY
9. ANTENNA
10. POWER ON/OFF, VOLUME KNOB
11. EXTERNAL SPEAKER JACK
12. EXTERNAL MICROPHONE JACK
13. MICROPHONE
14. SPEAKER
15. BELT CLIP

SPEAKER   MIC

TOP VIEW
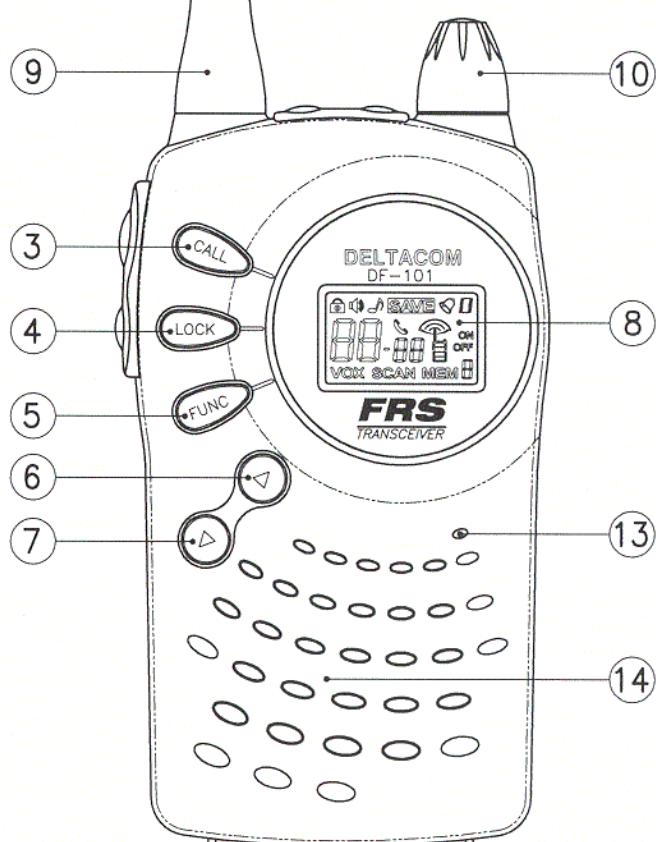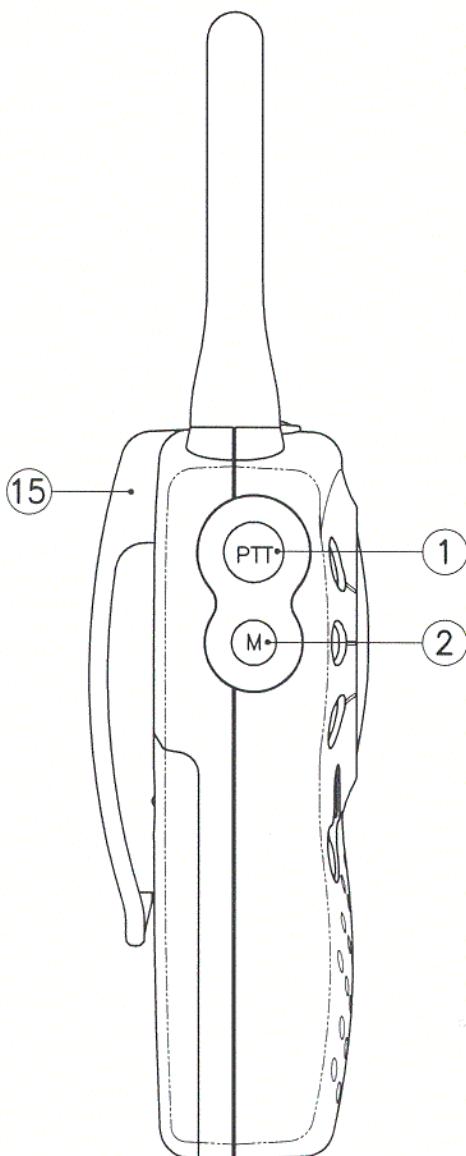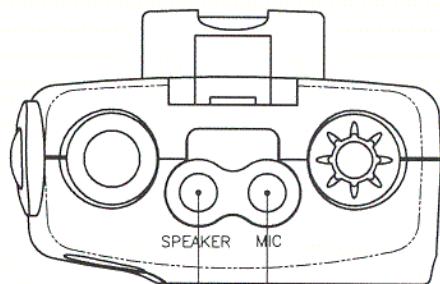
LEFT VIEW

FRONT VIEW

DELTACOM CO., LTD.
FCC ID: NQ5DF-101
EXHIBIT #: 8D

III. OPERATING INSTRUCTION

1. LCD DISPLAY
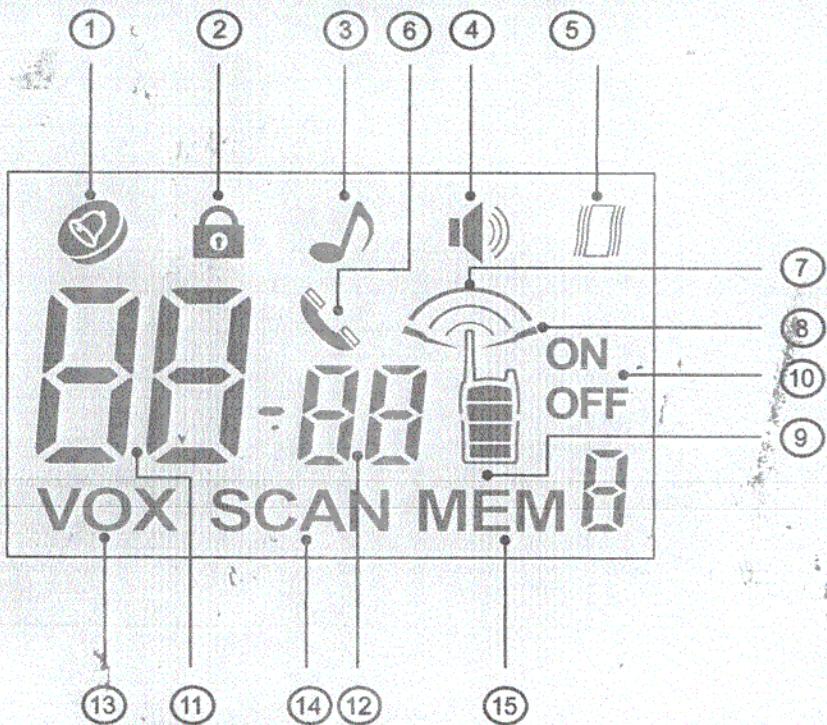
1. Roger Beep icon
2. Lock icon
3. key beep icon
4. Incoming call icon(tone)
5. Incoming call icon(motor)
6. Out going call icon
7. Receive icon
8. Transmit icon
9. Battery capacity & level icon
10. Function on/off icon
11. 2 digit channel display
12. 38 CTCSS subchannel display
13. Vox icon
14. Scan icon
15. Memory location indicator

2. Turning On Your DF-101

1) Insert four "AAA" batteries.
   Position batteries according to polarity markings.
2) Rotate on/off volume control knob clockwise.
   An audiable tone will indicate the unit is on and then the LCD will
   display all icon and then go to operational mode.

3. Select Main Channel.

1) Rotate on-off volume control knob clockwise.
2) Select channel by pushing and releasing up/down key.
   note. Both the calling and receiving units must be on same channel
          and subchannel for the call function to work.

4. Calling Another Party

To alert another party that you wish to communicate
1) Push CALL button.
2) The call icon and RX icon will appear until releasing CALL button.

5. To trasmit

1) Hold the radio 2~3 inches from your mouth, press the
   Push-To-Talk button on the radio side, and speak clearly into
   the microphone area of the radio.
2) When your transmission is complete, release the PTT button and
   listen for response.
3) When not using the radio, conserve battery power by turning
   the unit off.
   Rotate the POWER/VOLUME knob counter-clockwise to detent.

6. LOCK Function

1) To avoid changing channel push LOCK button for 2 secs.
2) LOCK icon will apear.
3) To unlock push LOCK button for 2 secs again.
4) LOCK icon disappears.

7. Normal Function Mode

To enter various functions as following sequence, push Func button for 2 secs, then go to 'select 38 CTCSS subchannel' and the next functions by pushing Func button shortly.

1) Select 38 CTCSS subchannel.
   ① Select channel by pushing and releasing UP/DOWN buttons.
   ② Small digit numbers flash next to channel display on LCD.
      where, OF means not to set any subchannel.

2) Scaning.
   ① Push and release UP/DOWN button SC displayed on LCD, and the unit will begin scanning the main channel.
   ② Unit will continue to scan all main channels and stop, if an incoming transmission is detected.

3) Set Time-Out-Timer.
   ① Push and release UP/DOWN buttons.
   ② The tine-out-timer is selectable for 1 min to 60 mins, in 1 min increment/decrement tt displayed on LCD and can also be selected as disabled.
   ③ This functions lock-out-timer that inhibits the unit transmitter for a specified time after time-out-time expires.

4) Set busy channel lockout
   ① Push and release up/down buttons bL displayed on LCD.
   ② ON and OFF icon will flash.
   ③ If in enable the unit will not transmit during a received signal.

5) Select key beep on/off
   ① Push and releaseup/down buttons bP displayed on LCD.
   ② ON and OFF icon will flash.
   ③ An audiable tone will indicate with beep icon the key beep is on.

6) Select roger beep on/off
   ① Push and releaseup/down buttons ro displayed on LCD.
   ② ON and OFF icon will flash.
   ③ Roger beep icon will appear when the roger beep is on.
   ④ Your listener will hear an audiable tone when you release the PTT button.
   ⑤ This alerts the other party that you are finished talking and it's OK for them to begin talking.

7) Select VOX on/off

   ① Push and releaseup/down buttons VO displayed on LCD.

   ② ON and OFF icon will flash.

   ③ If external VOX is detected, external voice transmits to your
party as if PTT is pushed.

   ④ This function is optional.

8. Memory function mode

1) Select memory channel location

   ① To enter memory function mode, push FUNC button shortly, then MEM
icon will appear.

   ② Select memory location you wish to change by pushing and releasing
up/down buttons.

2) Select main channel

   ① Push and release FUNC button until MEM icon and main cahnnel flashes

   ② Select desired main channel you wish to store by pushing and releasing
up/down buttons.

3) Select subchannel

   ① Push and release FUNC button which sets main channel in memory and moves
to subchannel begins flashing. The MEM icon will remain flashing.

   ② Select desired subchannel you wish to store(OF~38) by pushing and releasing
up/down buttons.

4) Scan Memory channel.

   ① Push and release up/down button until SCAN icon appear. The MEM icon will
remain flashing.

   ② Push and release up/down buttons and the unit will begin scanning
the memory channel.

   ③ Unit will continue to scan all memory channels and stop, if an incoming
transmission is detected.

4) Set Time-Out-Timer.

   ① Push and release UP/DOWN buttons.

   ② The tine-out-timer is selectable for 1 min to 60 mins, in 1 min
increment/decrement tt displayed on LCD and can also be selected
as disabled.

   ③ This functions lock-out-timer that inhibits the unit transmitter
for a specified time after time-out-time expires.

5) Set busy channel lockout

   ① Push and release up/down buttons bL displayed on LCD.

   ② ON and OFF icon will flash.

   ③ If in enable the unit will not transmit during a received signal.

6) Select key beep on/off
   ① Push and releaseup/down buttons bP displayed on LCD.
   ② ON and OFF icon will flash.
   ③ An audiable tone will indicate with beep icon the key beep is on.
7) Select roger beep on/off
   ① Push and releaseup/down buttons ro displayed on LCD.
   ② ON and OFF icon will flash.
   ③ Roger beep icon will appear when the roger beep is on.
   ④ Your listener will hear an audiable tone when you release
      the PTT button.
   ⑤ This alerts the other party that you are finished talking and
      it's OK for them to begin talking.