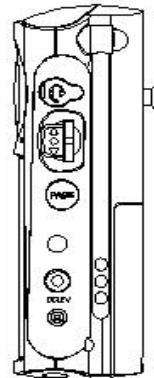
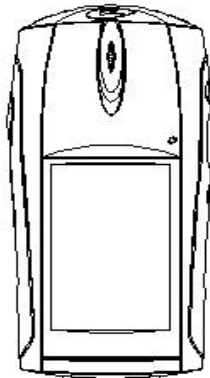
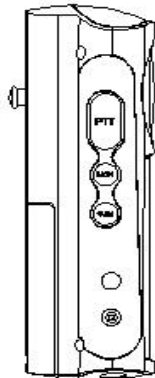
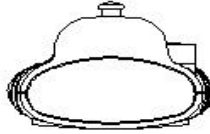


3. INSTRUCTION MANUAL

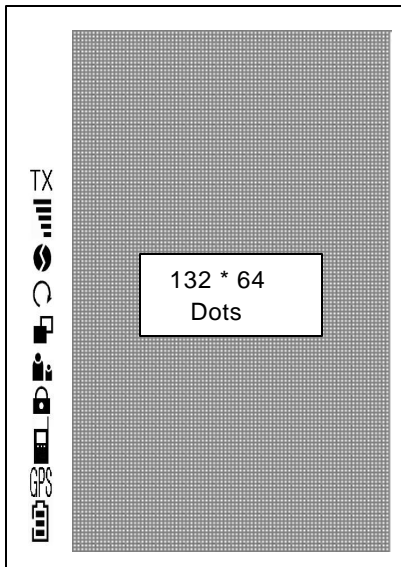
3.1 Key Name



FUNCTIONS AND CONTROLS

- 1) Antenna
- 2) Push-To-Talk (PTT) Button
- 3) Monitor Button
- 4) Mark & Power Button
- 5) External MIC / Speaker
- 6) Up/Down/Enter Button & Volume Control
- 7) Page Button
- 8) Charging Jack
- 9) Built-in Speaker
- 10) Built-in Microphone
- 11) LCD Panel
- 12) Battery Door Button

3.2 ICONS on LCD




132 * 64 dots with ICONS


1) TX Indicator

TX Appears when a signal is being transmitted.


2) RSSI (Receiving Signal Strength Indicator)

 Indicates the receiving signal strength


3) CTCSS Indicator

 Blinks when the correct CTCSS tone is entered.

4) Seek Scan Indicator

 Appears in the seek scan mode or when the seek scan mode is activated.

5) Priority Scan Indicator

 Appears in the priority scan mode or when the priority scan mode is activated.

6) VOX Indicator



Blinks in VOX selection mode or appears when VOX is activated.

7) Key Lock Indicator



Blinks in auto lock selection mode or when the key lock is activated.

8) GMRS Indicator



Appears GMRS is activated.

9) GPS Indicator



Appears GPS is activated.

10) Battery Level Indicator



Battery Level Meter indicates the remaining battery strength.

3.3 Key Function

3.3-1 Power On/Off & Mark Button(#4)

1) Short Touch

a) Under Power off

Press this button (#4) briefly to turn the unit on.
A short Confirming melody will play.

b) Under Power on

Press this button (#4) briefly to go Mark Page.

2) Long Touch

a) Pressing this button (#4) for more than 1.5 seconds to turn the unit off.

3.3-2 Up/Confirm/Down Button (#6)

1) Up Button

a) Short Touch

- In the Standby page, press this button briefly to move to the next higher main volume level.
- In the Map page, press this button briefly to view a larger area.
- In the Pointer page, press this button briefly to cycle through other trip computer information such as average speed, maximum speed, moving direction (heading), bearing, location, elevation, time of sunrise/sunset, trip timer and trip odometer.
- In the GPS menu page & Setup page, press this button briefly to shift the current item in each menu to the next item in the same menu.

b) Long Touch

Pressing this button for more than 1.5 seconds will allow you to navigate at a more rapid rate through different items in the each page.

2) Down Button

a) Short Touch

- In the Standby page, press this button briefly to move to the next lower main volume level.
- In the Map page, press this button briefly to view a smaller area.
- In the Pointer page, press this button briefly to cycle through other trip computer information such as average speed, maximum speed, moving direction (heading), bearing, location, elevation, time of sunrise/sunset, trip timer and trip odometer.
- In the GPS menu page & Setup page, press this button briefly to shift the current item in each menu to the previous item in the same menu.

b) Long Touch

Pressing this button for more than 1.5 seconds will allow you to navigate at a more rapid rate through different items in the each page

3) Confirm Button

- In the Standby page, Map Page, & Pointer page, press this button briefly to move to the option selection mode.
- In the GPS menu page & Setup page, press this button briefly to confirm the required option for respective functions or to go enter the sub-menu.

3.3-3 Page Button(#7)

1) Short Touch

In the Standby Page, Map Page, Pointer Page, GPS Menu Page & Setup Page, Press this button briefly to move to the next Page. In the Sub-menu for GPS Menu Page & Setup Page, Press this button briefly to shift from current sub-menu to the higher sub-menus or pages in the each sub-menus.

2) Long Touch

- Pressing this button for more than 1.5 seconds will allow you to navigate at a more rapid rate through different pages.

3.3-4. PUSH-TO-TALK (PTT) BUTTON (# 2)

Press it firmly and speak into the Built-in Microphone (#10) to transmit.

Release it to revert to receive mode.

2 Way Call Ringer

Press the PTT button twice quickly to call another party on the same channel and the user selected call ringer melody will play.

3.3-5 MONITOR BUTTON (#3)

- Press it to check activity on the current channel before you try to transmit.
- Adjust the Volume Control if necessary.
- If you press and hold the Monitor button (#3) for more than 3 seconds.
- To stop the monitoring press the Monitor Button (#2) and return to the standby mode.

3.3-6 EXTERNAL MIC/SPEAKER (# 5)

- This jack accepts an optional headset/microphone for totally handsfree operation.
- Please refer to the enclosed Accessory Order Form to order accessories.
- See also section regarding VOX SELECTION MODE.

3.4 Setting and Operation

3.4-1 Common function setting

1) Mode setting

You can activate the GPS only / GMRS only / GMRS+GPS / mode.
Default mode : GMRS+GPS

2) GPS Information

Coordinates, Time & Date, Odometer, TTG(Time To Go), Speed, moving direction(Heading), Sunrise/Sunset, Elevation.

When you press Up/Confirm/Down Button (#6), GPS position, GPS signal length, GPS status appears in the LCD panel(#11)

3.4-2 GPS function

1) Map Page

This feature provides where you are (the animated figure) and provides a real picture of where you are going. As you travel and leaves a trail (track log).

Waypoint names and symbols are also shown on the map.

2) Pointer Page

This feature helps guide you to a destination.

When you are moving with no particular destination in mind, the Pointer Page shows you your moving direction and speed.

When you're moving towards a specific destination, the Pointer page shows you the name of the location, the distance, and time to go.

3) Mark Page

This feature provides you to inform or transmit your current position to the another party

3.4-3 GMRS function setting

1) Basic channel selection

In order to communicate with other GMRS units, both you and the receiving party must be on the same channel.

JGG-2002 has 15 channels for GMRS as indicated by the large digits in the LCD Display Panel (#11).

Before, trying to transmit on the selected channel, you should press the Monitor Button to check the activity on that channel.

If someone is already on the selected channel, you should try another channel that is clear.

To change the basic channel,

- In the Standby page, press the Up/Confirm/Down Button (#6) briefly to enter to the Basic mode.
- When channel is highlighted, press the Up/Confirm/Down Button(#6) briefly to move to the channel selection mode
- In the channel selection mode, Press the Up/Confirm/Down Button (#6) briefly to choose an another main channel number.

2) CTCSS (Coded Tone Controlled Squelch System) sub-channel selection mode

This feature allows you to utilize a less used channel range (00-38) within a main channel. This enables you to communicate with another party on the same main channel using the same sub-code. This helps to avoid congestion on the main channel and filters out unwanted noise and static.

There are 38 CTCSS sub-channels for each main channel.

To change the CTCSS sub-channel,

- When Code is highlighted, press the Up/Confirm/Down button (#6) briefly to move to the Sub-channel selection mode.
- In the Standby page, press the button Up/Confirm/Down (#6) briefly to enter to the Basic mode.
- The corresponding sub-code will be displayed in the LCD panel (#11).
- Press the Up/Confirm/Down button (#6) to confirm your selection.

3) Seek scan mode

This feature allows you to scan for an active channel and communicate with the party transmitting.

To access the Seek Scan menu,

In the Standby page, press the button Up/Confirm/Down (#6) briefly to enter to the Basic mode.

Press the Up/Confirm/Down button (#6) to confirm your selection.

4) Priority Scan mode

This feature allows you to monitor two different channels at the same time. If you pre-set any priority channel other than the current channel in use, the pre-set channel will be scanned every 0.5 second and signals you when a call is received.

To access the Priority Scan mode,

When priority scan is highlighted, press the Up/Confirm/Down button (#6) briefly to enter to the Basic mode.

- To change the Priority channel,

In the Priority Scan channel selection mode, press the Up/Confirm/Down button (#6) briefly to choose the desired Priority Scan channel to use.

The corresponding Priority Scan channel will be displayed in the LCD panel (#11).

Press the Up/Confirm/Down button (#6) to confirm your selection.

5) VOX selection mode

The Voice Activated Transmission (VOX) function allows your voice to activate transmission automatically when the Communicator is used with the optional handsfree MIC/headset (refer to enclosed Accessory Order Form).

It also allows handsfree use when a MIC/headset is not being used without having to use the PTT Button (#2).

To access the VOX Selection menu,

- When VOX is highlighted, press the Up/Confirm/Down button (#6) briefly to move to the VOX response sensitivity selection mode.
 - In the VOX response sensitivity selection mode, press the Up/Confirm/Down button (#6) briefly to enter to the Basic mode.
- The corresponding VOX response sensitivity will be displayed in the LCD panel (#11).
- Press the Up/Confirm/Down button (#6) to confirm your selection.

6) VOX recovery time selection mode

This allows the response characteristics of the VOX function to be precisely adjusted to suit individual needs.

To access the VOX Recovery Time Selection menu,

- When VOX Delay is highlighted, press the Page button (#6) until the Radio set up menu appears on the LCD panel (#11)
- Press the Up/Confirm/Down button (#6) to select from 5, 3, 2, or 1 second setting. This setting determines the delay time between transmitting and receiving.
- Press the Up/Confirm/Down button (#6) to confirm your selection.

- Please note you may need to try different VOX time settings to determine the best time to suit your speaking habit.

7) FM Radio Mode

Conditions of FM Radio Mode

- You can access to FM Radio only in the Radio mode or Radio + GPS mode.
- 'FM' is displayed on LCD in the HOT KEY menu.

How to receive FM Radio

- When 'FM' is highlighted in the HOT KEY menu, pressing ENTER Key allows you to select Radio On or Off.
- You can access to Fm Radio mode by pressing Enter key after selecting 'ON' It receives the pre-set Frequency.
- The cursor blinks under the Memory button.
- Pressing the UP/DOWN key allows you to receive another frequency

How to set FM Radio frequency by TUNE

- When the cursor is highlighted in the 'TUNE', pressing the Enter key make the current frequency blink.
- You can change the Frequency by pressing up/down key.
- Pressing Enter key make memory button blink in which the Frequency is saved ('TUNE' button is still highlighted)
- Pressing up/down key make blinking memory button shift to other memory button
- Pressing the Enter button make the frequency saved in the wanted memory button.

How to set FM Radio frequency by SEEK

- When the cursor is highlighted in the 'SEEK', pressing the Enter key allows you to seek the FM Radio channel by carrier detect way.
- Seeking stop in the FM Radio channel and the memory button blink in which the Frequency is saved.
('SEEK' button is still highlighted)
- If you do not want to save that channel, press the MON key to seek another FM Radio channel continuously.
- Pressing up/down key make blinking memory button shift to other memory button
- Pressing the Enter button make the frequency saved in the wanted memory button.

8) Call Ringer melody selection mode

- This feature provides 7 user selectable call ringer melodies to alert you of a calling party.
To select your favorite Call Ringer melody,

- When Call is highlighted, press the Page button (#6) until the Radio set up menu appears on the LCD panel (#11).
And then press the Up/Confirm/Down button (#6) to select your favorite Call Ringer melody.
- In the Call ringer melody selection mode, press the Up/Confirm/Down button (#6) briefly to choose the available to use.
- The corresponding Call ringer melody number will be displayed in the LCD panel (#11) and melody will be heard.
- Press the ENTER key (#2) to confirm your selection.

9) ROGER SELECTION MODE

If Roger option is on, when you finish the transmitting automatically the JGG-2002 make a beep sound and transmit a sub-code tone to the partner.

To access the Roger Selection Mode :

- Press the Page button (#6) until the Radio set up menu appears on the LCD panel (#11). And then press the Up/Confirm/Down button (#6) Roger on or off.
- Function Button (#12) from the Key beep selection mode.

Safety Information for GMRS UNIT

Your wireless handheld portable transceiver contains a low power transmitter. When the Push-to-Talk (PTT) button is pushed it sends out radio frequency (RF) signals. This device is authorized to operate at a duty factor not to exceed 50%.

In August 1996, the Federal Communications Commission (FCC) adopted RF exposure guidelines with safety levels for hand-held wireless devices.

Important Note: To maintain compliance with the FCC's RF exposure guidelines, hold the transmitter and antenna at least 1 inch (2.5 centimeters) from your face and speak in a normal voice, with the antenna pointed up and away from the face.

If you wear the handset on your body while using the headset accessory, use only the manufacturer's supplied belt clip for this product and ensure that the antenna is at least 1 inch (2.5 centimeters) from your body when transmitting.

Use only the supplied antenna. Unauthorized antennas, modifications, or attachments could damage the transmitter and may violate FCC regulations.

GMRS License :

Use of GMRS radios within the United States requires a FCC GMRS license. An individual 18 years of age or older, who is not a representative of a foreign government is eligible to apply for a GMRS system license. You will need two forms from the FCC, FCC Form 159 and FCC Form 605 Main Form and Schedule F. You can find the forms online at <http://www.fcc.gov/formpage.html> or call 1-800-418-3676.

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 UNDESIRABLE OPERATION.