A. Key instruction

1. 【MEM】
   Short press: Choose memory channel
   Short press 【MEM】 to enter memory channel, Press microphone 【▲/▼】 key, total 6 memory channels available;
   Short press 【MEM】 again to exit memory channel;
   Long press: Store memory channel
   Choose wanted channel, then long press 【MEM】 to enter storage mode, the channel number flashes, switch 【PUSH】 to choose the location to be stored (M1-M6), Long press【MEM】 until the flashing channel number disappear, the storage is done.

2. 【MODE】
   Short press: Choose working mode
   Short press 【MODE】 to choose FM→AM→USB→LSB→PA;
   Long press: No use, LCD display “ERROR”

3. 【BAND】
   Short press: Choose working band
   Short press 【BAND】 to choose A→B→C→D→E→F→G→H→I
   Long press: No use, LCD display “ERROR”

4. 【FRQ】
   Short press: Switch between frequency mode and channel mode.
   Long press: No use, LCD display “ERROR”

5. 【MENU】
   Short press: Short press 【MENU】, the top left of LCD display “F”, Press 【PUSH】 to enter menu list and change setting for present channel.
   Long press: In standby, Long press 【MENU】 2 seconds to enter Background setting menu;

6. 【SCAN】
   Short press: Scan function
   Short press 【SCAN】 to start scan function, “SC” flashes in the LCD;
In scan mode, switch 【PUSH】 will change scan direction; Short press 【SCAN】 again to exit scan; Long press: Add/delete scan list.

In channel mode, Long press 【SCAN】 for 2 seconds will add or delete present channel from scan list.
1. When LCD displays “SC”, means present channel is added to scan list.
2. When LCD does not displays “SC”, means present channel is not added to scan list.
Note: this function is equal the operation in Channel setting Menu No.6 menu.

7. 【DW】
Short press: Dual watch function.
1. Short press 【DW】 to turn on Dual watch , LCD displays “DW”;
2. Short press 【DW】 again or press 【PTT】 to exit DW mode;

Long press: Setting dual watch
1. Hold 【DW】 for 2 seconds to enter setting, LCD displays “DW”;
2. Switch 【PUSH】 to choose dual watch channel. Long press 【DW】 again to store and exit.

8. 【EMG】
Short press: Choose EMG channel
Short press 【EMG】 to choose EMG, LCD displays “EMG”;
1. Short press 【EMG】 once to choose CH9;
2. Short press 【EMG】 again to choose CH19;
3. Short press 【EMG】 thrice to return to last normal channel.

Long press: Key lock
1. Long press 【EMG】 to lock keys, LCD displays “#c”;
2. Long press 【EMG】 again to unlock the keys;
Note: During key lock, only PTT button is valid;

9. PWR: RF power adjustment
In Transmit mode, switch 【PWR/RFG】 outer shaft to adjust FM/AM/USB/LSB power;

10. RFG: RF again adjustment
In receiving mode, switch 【PWR/RFG】 inner shaft to adjust RF gain;

11. SQ: Squelch level control
Turn the switch 【CLAR/SQ】 outer shaft clockwise, LCD displays SQ: XX, XX. Stands for squelch level, total 1-36 level available.

12. CLAR: USB/LSB/CW frequency adjustment
Switch 【CLAR/SQ】 inner shaft to adjust USB/LSB frequency.

13. VOL: Turn On/Off radio, Volume control
1. Turn on radio: switch 【VOL/OFF】 clockwise to turn on the radio.
2. Turn off radio: switch 【VOL/OFF】 anti clockwise to end to turn off radio..
3. Volume control: When the radio is turned on, switch 【VOL】 to adjust volume level, LCD displays VOL: XX, XX stands for the volume level. Total 1-3 level available.

14. PUSH : Channel /frequency adjustment
1. Channel adjustment:  In channel mode, switch 【PUSH】 to choose wanted channel.
2. Frequency adjustment: In frequency mode, press 【PUSH】 to adjust frequency, each press of  【PUSH】will adjust one step size:

B. Channel setting Menu

1. Press 【MENU】 , top left of LCD display “F”, Press 【PUSH】 to enter menu list.
2. Switch 【PUSH】 to find No 1- No. 6 menus.
3. Press 【PUSH】 to choose the menu.
4. Switch 【PUSH】 to choose wanted value.
5. Press 【PUSH】 to return to Previous Menu. Press any other key or wait 5 second, the setting will be stored and exit channel setting.

<table>
<thead>
<tr>
<th>Menu number</th>
<th>LCD display</th>
<th>Value available and its description</th>
</tr>
</thead>
</table>
| 1           | PD          | OFF: Choose independent channel menu to edit present channel function  
ON: Choose public channel menu to edit present channel function |
| 2           | BUSY        | OFF: Shut busy channel lockout function;  
ON: Open busy channel lockout function |
| 3           | REP         | REP+: Open offset direction function, TX frequency> RX frequency;  
REP-: Open offset direction function, RX frequency> TX frequency;  
OFF: Shut offset direction function |
| 4           | RXC         | CTCSS: 67.0Hz~250.3Hz, Total 38 groups;  
DCS: D023N~D754N, Total 104 groups;  
OFF: Shut CTCSS/DCS decode |
| 5           | TXC         | CTCSS: 67.0Hz~250.3Hz, Total 38 groups;  
DCS: D023N~D754N, Total 104 groups;  
OFF: Shut CTCSS/DCS encode |
| 6           | SCAN        | ADD: LCD displays “SC”, present channel is added to scan list.  
DEL: LCD does not display “SC”, present channel is not added to scan list |

C. Public Channel function setting menu

1. Hold 【PUSH】 for over 2seconds to enter menu list;
2. Switch 【PUSH】 to find menu No. 1 to No 5.
3. Press 【PUSH】 to choose the menu;
4. Switch 【PUSH】 to choose wanted value.
5. Press 【PUSH】 to return to Previous Menu. Press any other key or wait 5 second, the setting will be stored and exit channel setting.

<table>
<thead>
<tr>
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<th>Value and its description</th>
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</thead>
</table>
| 1           | HICUT       | OFF: Shut HI-CUT function;  
ON: Open HI-CUT function |
| 2           | NB          | OFF: Shut NB function;  
ON: Open NB function |
| 3           | ECHO        | OFF: Shut ECHO function;  
ON: Open ECHO function |
D. Background setting menu

1. Hold 【MENU】 for over 2 seconds to enter menu list;
2. Switch 【PUSH】 to find menu No. 1 to No. 11.
3. Press 【PUSH】 to choose the menu;
4. Switch 【PUSH】 to choose wanted value.
5. Press 【PUSH】 to return to Previous Menu. Press any other key or wait 5 second, the setting will be stored and exit channel setting.

<table>
<thead>
<tr>
<th>Menu number</th>
<th>LCD display</th>
<th>Value and its description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>BEEP</td>
<td>OFF: Shut BEEP function; ON: Open BEEP function;</td>
</tr>
<tr>
<td>2</td>
<td>INDIC</td>
<td>OFF: LCD displays TX frequency during transmitting. SWR: LCD displays SWR value during transmitting. TOT: LCD displays TOT remain time during transmitting. DC: LCD displays voltage during transmitting.</td>
</tr>
<tr>
<td>3</td>
<td>MIC</td>
<td>1-36, Total 36 levels available.</td>
</tr>
<tr>
<td>4</td>
<td>NOG</td>
<td>1-32, OFF, Total 33 levels available, OFF is Shut NOG function;</td>
</tr>
<tr>
<td>5</td>
<td>TOT</td>
<td>1-600s, OFF, Total 10 minutes available, OFF is Shut TOT function;</td>
</tr>
<tr>
<td>6</td>
<td>TSR</td>
<td>OFF: Shut SWR function; ON: Open SWR function;</td>
</tr>
<tr>
<td>7</td>
<td>TDC</td>
<td>OFF: Shut voltage protection function; ON: Open voltage protection function;</td>
</tr>
<tr>
<td>8</td>
<td>SCAN</td>
<td>SQ: SQ scan function; TI: Time scan function;</td>
</tr>
<tr>
<td>9</td>
<td>FIN</td>
<td>OFF: Shut frequency adjustment function; R: Open RX frequency adjustment function; T: Open TX frequency adjustment function; RT: Open TX and RX frequency adjustment function</td>
</tr>
<tr>
<td>10</td>
<td>COLOR</td>
<td>WHITE: White LCD display; BLUE: Blue LCD display; GREEN: Green LCD display; RED: Red LCD display; YELLOW: Yellow LCD display; PURPLE: Purple LCD display; CYAN: Cyan LCD display;</td>
</tr>
<tr>
<td>11</td>
<td>RESET</td>
<td>OPT: All function setting resume factory default; ANL: All channel function setting resume factory default</td>
</tr>
</tbody>
</table>