

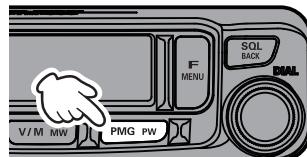
## PMG (Primary Memory Group)

If an often-contacted group of friends frequency is registered in a PMG (Primary Memory Group), that frequency can be recalled immediately by pressing the [PMG PW] key.

### Register the frequency with PMG

1. Tune to the frequency or the memory channel to be registered in PMG.
2. Press and hold the [PMG PW] key to register the current channel to PMG.
  - To register another channel, repeat steps 1 and 2.

 Up to 5 frequency channels can be registered to PMG.



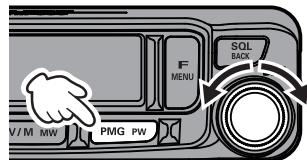
### Recall the frequency registered in PMG

1. Press the [PMG PW] key.
2. Rotate the DIAL knob to select the frequency to recall. The “1 PM” to “5 PM” is shown while recalling the channel registered in PMG.
3. Press the [PMG PW] key.  
The display will return to the screen before starting PMG.



### Deleting memory from PMG

To delete a channel from PMG, select the channel in PMG then press and hold the [PMG PW] key to cancel the registration.



### Disable the PMG function

1. Press the [PMG PW] key.  
The display will return to the screen before starting PMG.

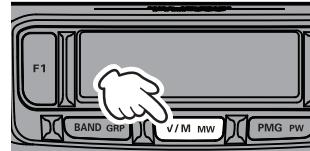
## To Append an Alpha-numeric “Tag” to a Memory

Memory name tags, such as a call sign may be assigned to the memory channels and home channels. Input a memory tag using up to 6 characters. Alphabetic characters, Numbers and Symbols may be entered to the memory name tag.

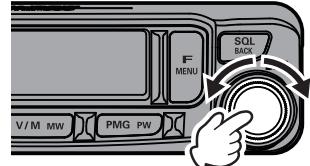
1. Recall the memory channel or HOME channel to assign the name.



2. Press and hold the [V/M MW] key.



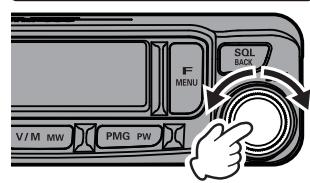
3. Rotate the **DIAL** knob to select “NAME”, and then press the **DIAL** knob.



4. Rotate the **DIAL** knob to select the first character in the name to store.



5. Press the **DIAL** knob momentarily to move on to the next character. Letters, numbers, and symbols are available for storage.



6. Again, rotate the **DIAL** knob to select the desired letter, number, or symbol, then press the **DIAL** knob momentarily to move on to the next character space.



7. Repeat the above step to program the remaining letters, numbers, or symbols of the desired label. A total of six characters may be used in the creation of a label.



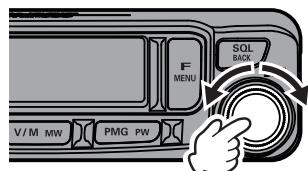
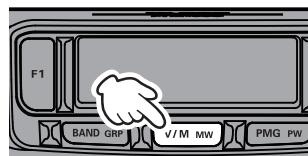
**i** The cursor position for character input moves to the left when the [BAND GRP] key is pressed, and it moves to the right when the [PMG PW] key.

8. When you have completed the creation of the label, press and hold the [V/M MW] key to save the label and exit to memory channel screen.
9. Each time the **DIAL** knob is pressed and held, the name tag display and the frequency display will switch.



## Clearing Memories

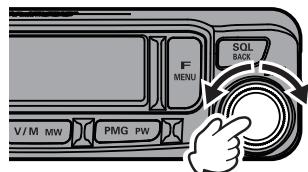
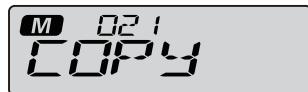
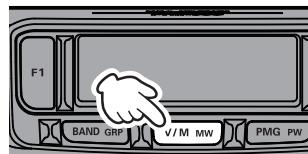
1. Select the memory channel from which the data is to be cleared, then press and hold the [V/M MW] key.
2. Rotate the **DIAL** knob to select [**DELETE**], then press the **DIAL** knob.
3. Press and hold the [V/M MW] key.  
Confirmation screen “OK?” is displayed.
4. Press and hold the [V/M MW] key to clear the memory channel.



Data on memory channel 001, and the home channel may not be cleared.

## Copying Memories

1. Select the memory channel from which the data is to be copied, then press and hold the [V/M MW] key.  
“COPY” is displayed.
2. Press the **DIAL** knob.
3. Rotate the **DIAL** knob to select the copy destination channel.
4. Press and hold the [V/M MW] key to copy the memory channel.

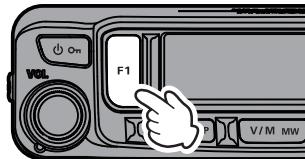


## Recalling the Home Channel

### ● Recall with [F1] key

In the factory default setting, "HOME" (calls the home channel) is registered to the [F1] key.

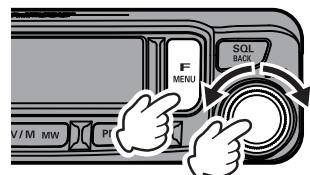
1. Press the [F1] key.  
"HM" and the home channel frequency appear on the LCD.
2. Press the [F1] key again, to return to the previous frequency.



### ● Recall with Function list

With the factory default setting, "HOME" (calls the home channel) is registered to the Function list.

1. Press the [F MENU] key.
2. Rotate the **DIAL** knob to select [F-12 HOME], and then press the **DIAL** knob.  
"HM" and the home channel frequency appear on the LCD.
3. Press the [V/M mw] key, to return to the previous frequency.

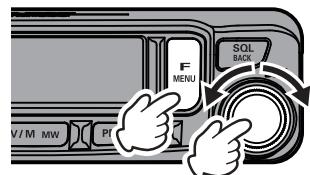


### ● Recall with Menu list

1. Press and hold the [F MENU] key.
2. Rotate the **DIAL** knob to select [12 HOME], and then press the **DIAL** knob.  
"HM" and the home channel frequency appear on the LCD.

**i** If "12 HOME" is displayed as "-----", it is registered in the "Function list", and it can be recalled by the "Recall with Function List" operation above.

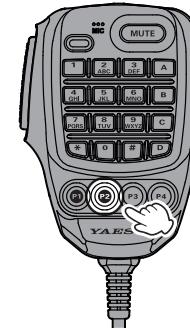
3. Press the [V/M mw] key, to return to the previous frequency.



## ● Recall with Microphone

With the factory default setting, "HOME" (calls the home channel) is registered to the [P2] key of the Microphone.

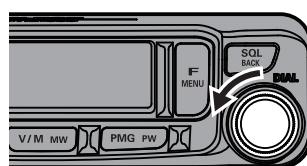
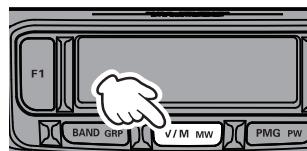
1. Press the [P2]\* key on the microphone.  
\* This is the factory setting. This function can also be assigned to the [P1] - [P4] key (see page 12).  
"HM" and the home channel frequency appears on the LCD.
2. Press the [P2] key again, to return to the previous frequency.



While the home channel is recalled, press and hold the [SQL BACK] key to transfer the home channel frequency to the VFO.

## Changing the Home Channel Frequency

1. Set the frequency and the operating mode to store as the home channel.
2. Press and hold the [V/M mw] key.
3. Rotate the DIAL knob to the left to select "HM".  
"HM" is listed before memory channel "001".
4. Press and hold the [V/M mw] key to overwrite and display the changed home channel.



## ● Change with the [F1] key or the microphone key

When "HOME" is registered to the [F1] key and any microphone [P1], [P2], [P3] or [P4] key ([F1] and [P2] keys are the default settings), the setting can be changed by pressing and holding the registered key.

1. Set the frequency and the operating mode you want to store as a home channel.
2. Press and hold the [F1] or [P2] key to overwrite and display the changed home channel.

# Scanning Function

The **FTM-6000R/E** supports the following scanning functions:

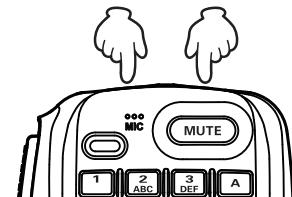
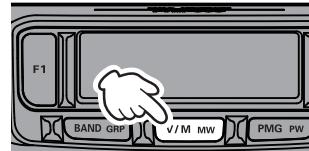
- VFO Scan
- Memory Channel Scan
- PMG (Primary Memory Group) Scan
- Programmable Memory Scan (PMS)

## VFO Scan / Memory Scan / PMG Scan

To find frequencies where there are signals in VFO mode, memory mode or PMG mode:

1. Press the **[V/M MW]** key to switch to VFO mode or Memory mode.
2. Press and hold the microphone **[UP]** or **[DWN]** switch to start scanning.
  - When the VFO scan is active, “VFO.SCN” appears on the display.
  - When the Memory scan is active, “MEM.SCN” appears on the display.
  - When the PMG scan is active, “PMG.SCN” appears on the display.
  - If the **DIAL** knob is rotated while scanning is in progress, the scanning will continue up or down in frequency according to the direction of the **DIAL** Knob rotation.
  - When a signal is received, the scan pauses, the frequency flashes, and the scan starts again after about 3 seconds.
3. Press the **PTT\*** switch or **[UP]** or **[DWN]** on the microphone to cancel the scanning.

\*The transceiver will not transmit in this case.



Display during VFO scanning



Display during Memory scanning



Display during PMG scanning

**i**

- If the scan has paused on a signal, rotating the **DIAL** knob will cause scanning to resume instantly.
- If the transceiver is turned OFF while scanning, when the transceiver is turned ON, scanning will resume.

## Programmable Memory scan (PMS)

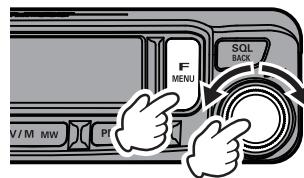
This function scans only the range of frequencies between the lower and upper limits registered in a pair of PMS Programmable Memory channels. 50 sets of PMS memory channels (L01/U01 to L50/U50) are available.



For additional details on the Programmable Memory Scan (PMS), refer to the Advanced Manual which may be downloaded from the Yaesu website.

## Setting the Receive Operation When Scanning Stops

1. Press and hold the [F MENU] key.
2. Rotate the **DIAL** knob to select [23 SCN.TYP], then press the **DIAL** knob.  
“SCN.RSM” is displayed.
3. Press the **DIAL** knob again.
4. Rotate the **DIAL** knob to select the hold time after the scan is paused:
  - **BUSY**  
The signal is received until the signal fades out. Two seconds after the signal fades out, scanning resumes.
  - **HOLD**  
Scanning stops and tuning remains on the current receive frequency (Scanning does not resume).
  - **1 sec / 3 sec / 5 sec**  
The signal is received for a specified period of time, and then scanning resumes.
5. Press the **DIAL** knob to complete the setting.

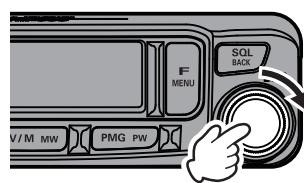
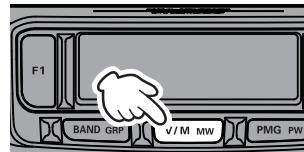


The above settings are common for all scanning operations.

## Skip Memory Channels

Each memory channel can be set to be skipped during memory scan.

1. Select the memory channel number not to be scanned.
2. Press and hold the [V/M mw] key.
3. Rotate the **DIAL** knob to the right to select [SCAN], then press the **DIAL** knob.
4. Rotate the **DIAL** knob to select [SCAN N].
5. Press and hold the [V/M mw] key to complete the setting.



To re-institute a channel into the scanning loop, select “SCAN” in step 4 above (the “Skipped” channel will still be accessible via manual channel selection methods using the **DIAL** knob in the memory mode, whether or not it is locked out of the scanning loop).

## Convenience Features

### Bluetooth® Operation (Requires optional BU-4)

The **FTM-6000R/E** can be equipped with the **Bluetooth®** function by installing the optional **Bluetooth®** unit “**BU-4**”. Remote operation is possible using the optional **Bluetooth®** headset (**SSM-BT10**) or a commercially available **Bluetooth®** headset.



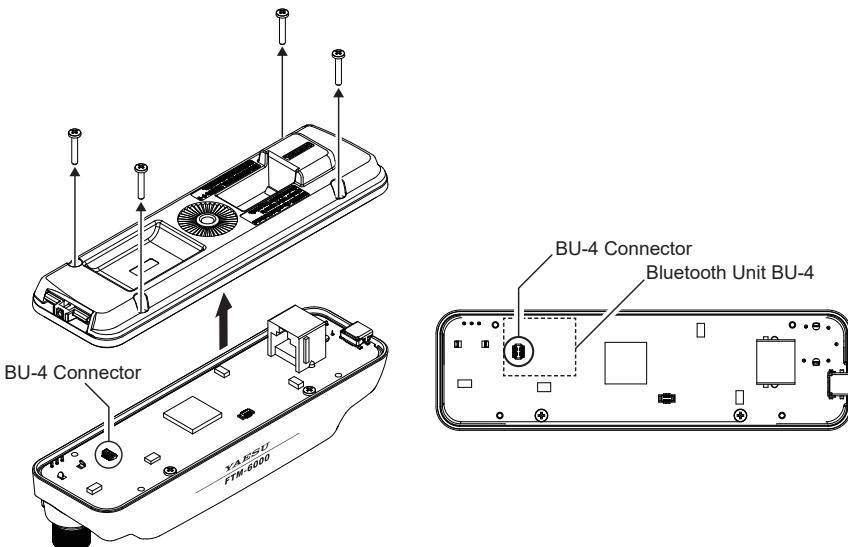
The operation of all commercially available **Bluetooth®** headsets cannot be guaranteed.

### Installing the Bluetooth® unit “BU-4”



- Avoid touching the electronic components with your hands as the semiconductors may be damaged by static electricity.
- Note that labor charges to install optional items by our customer service support staff shall be separately chargeable.

1. Turn the transceiver **OFF**, then unplug the control cable from the front panel.
2. Remove the four screws from the front panel.
3. Carefully lift the back case of the front panel.



4. Refer to the figure to install the BU-4.



Check the direction of the connector and plug the BU-4 in all the way to the back.

5. Carefully attach the back cover and secure it with the four screws.



Do not tighten the four screws with excessive force.

## Pairing the Bluetooth® Headset

When using the Bluetooth® Headset for the first time, the Bluetooth® Headset and the **FTM-6000R/E** must be paired.

This step is only necessary when first connecting the headset.

1. To start the Bluetooth® headset in pairing mode.

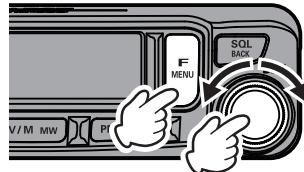
**SSM-BT10:** Press and hold the Multi-Function Button, until the **SSM-BT10** LED blinks red/blue alternately.

Press and hold the Multi-Function Button to turn ON.

Blinks red and blue

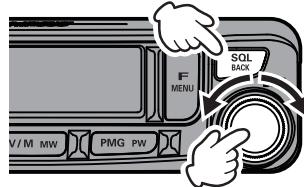
Power ON

2. Press and hold the [**F MENU**] key.
3. Rotate the **DIAL** knob to select [**35 BLT**], then press the **DIAL** knob.  
The “**BLT.OFF**” is displayed.
4. Press the **DIAL** knob again.



5. Rotate the **DIAL** knob to select [**BLT.ON**], then press the [**SQL BACK**] key.

The “**\***” icon blinks on the **FTM-6000R/E** screen.



6. Rotate the **DIAL** knob to select [**BLT.LST**], then press the **DIAL** knob.

The “**SEARCH**” is displayed.



7. Press the **DIAL** knob again.

The model name of the Bluetooth® device found is displayed.



8. When the headset to be connected is displayed, press the [**SQL BACK**] to stop searching.



9. Rotate the **DIAL** knob to select the Bluetooth® headset to be connected, then press the **DIAL** knob.

The LED of **SSM-BT10** blinks blue. The pairing is completed.



10. Press the **PTT** switch to return to the normal operation.

While connected to a Bluetooth® headset, the “**\***” icon lights up on the **FTM-6000R/E** screen, and the received audio and operation beep will be heard from the Bluetooth® headset.

### ● Disable the Bluetooth® function

To cancel the Bluetooth® operation, just repeat the above procedures, selecting “**BLT.OFF**” in step 5 above.

## ● Subsequent Bluetooth® headset connection when the power is turned ON

- When the power is turned **OFF** while the Bluetooth® headset is connected, the next time the power is turned **ON**, the same Bluetooth® headset is searched for and automatically connected when found.
- If the Bluetooth® headset cannot be found, the “**⋮**” icon blinks on the screen. If the power of the same Bluetooth® headset is turned **ON** in this state, it will connect automatically. If not, turn the **FTM-6000R/E** and Bluetooth® headset **OFF** and then **ON** again.
- To connect to other Bluetooth® headsets, refer to “Connect with another Bluetooth® headset” (see below).

## Transmit operation by pressing the button on the Bluetooth® headset

Pressing the “Call button”\* on the Bluetooth® headset once will engage the **FTM-6000R/E** in transmit, and then a call can be made using the Bluetooth® headset.

Press the “Call button”\* again to return the **FTM-6000R/E** to receive.

\*The button name may differ depending on your Bluetooth® headset.

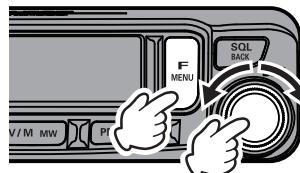
**SSM-BT10:** When the **Multi-Function** Key is pressed, a beep will sound and the **FTM-6000R/E** will continuously transmit.  
Press the **Multi-Function** Key again, a beep will sound and the **FTM-6000R/E** will return to receive mode.

Press briefly to transmit



## Connect with another Bluetooth® headset

- Press and hold the **[F MENU]** key.
- Rotate the **DIAL** knob to select **[35 BLT]**, then press the **DIAL** knob.



- Rotate the **DIAL** knob to select **[BLT.LST]** then press the **DIAL** knob.



- If the “**⋮**” icon lights up on the **FTM-6000R/E** screen, press the **DIAL** knob.

The “**⋮**” icon flashes on the **FTM-6000R/E** screen and the Bluetooth® headset disconnects.

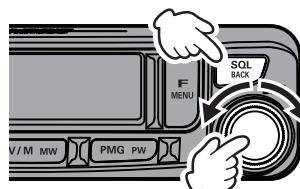
- Rotate the **DIAL** knob to select “**SEARCH**”.

- Press the **DIAL** knob.

The model name of the Bluetooth® device found is displayed.

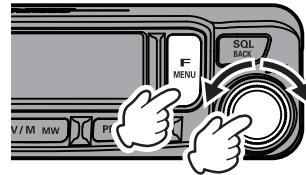
- When the headset to be connected is displayed, press the **[SQL BACK]** to stop searching.

- Rotate the **DIAL** knob to select the Bluetooth® headset to be connected, then press the **DIAL** knob.

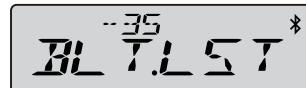


## Connecting to a registered (paired) Bluetooth® headset

1. Press and hold the [F MENU] key.
2. Rotate the **DIAL** knob to select [35 BLT], then press the **DIAL** knob.



3. Rotate the **DIAL** knob to select [BLT.LST] then press the **DIAL** knob.

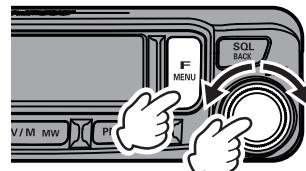


4. Rotate the **DIAL** knob to select the Bluetooth® headset to be connected, then press the **DIAL** knob.



## Remove a registered (paired) Bluetooth® device from the list

1. Press and hold the [F MENU] key.
2. Rotate the **DIAL** knob to select [35 BLT], then press the **DIAL** knob.



3. Rotate the **DIAL** knob to select [BLT.LST] then press the **DIAL** knob.



4. Rotate the **DIAL** knob to select the Bluetooth® headset to be deleted.
5. If the “\*” icon lights up on the FTM-6000R/E screen, press the **DIAL** knob.

The “\*” icon flashes on the FTM-6000R/E screen and the Bluetooth® headset disconnects.

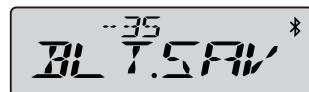
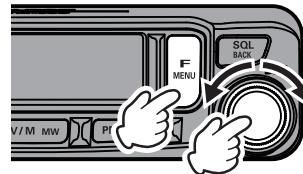
6. Press and hold the **DIAL** knob.

The Bluetooth® headset is deleted from the device list.

## Bluetooth® battery save function

Turning on the Bluetooth® Battery Saver feature extends the battery life of the standby Bluetooth® headset.

1. Press and hold the [F MENU] key.
2. Rotate the **DIAL** knob to select [35 BLT], then press the **DIAL** knob.
3. Rotate the **DIAL** knob to select [BLT.SAV], then press the **DIAL** knob.
4. Rotate the **DIAL** knob to select “ON”.
5. Press the **DIAL** knob to complete the setting.



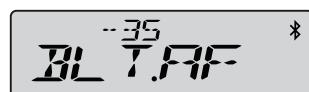
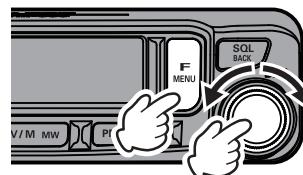
### ● Disable the battery save function

To cancel Bluetooth® Battery Saver feature, just repeat the above procedures, selecting “OFF” in step 4 above.

## Bluetooth® received audio output

When a Bluetooth® headset is connected, the received audio can automatically be output from the headset only, or from both the headset and the transceiver speaker.

1. Press and hold the [F MENU] key.
2. Rotate the **DIAL** knob to select [35 BLT], then press the **DIAL** knob.
3. Rotate the **DIAL** knob to select [BLT.AF], then press the **DIAL** knob.
4. Rotate the **DIAL** knob to select [AUTO] or [FIX].



**AUTO:** The received audio comes from only the Bluetooth® headset.

**FIX:** The received audio comes from both the Bluetooth® headset and the speaker of this transceiver.

5. Press the **DIAL** knob to complete the setting.

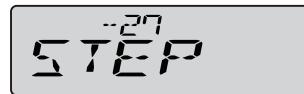
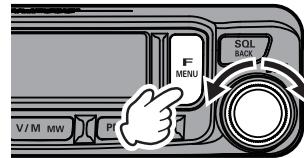
## Changing the Frequency Step

The **DIAL** knob rotation frequency step may be changed. Normally, use the factory default setting of “**AUTO**”.

1. Press and hold the [**F MENU**] key.
2. Rotate the **DIAL** knob to select [**27 STEP**], then press the **DIAL** knob.
3. Rotate the **DIAL** knob to set the frequency step.
4. Press the **DIAL** knob to complete the setting.

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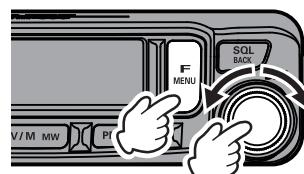
- The default setting, of the frequency step is set to “**AUTO**”, which automatically provides a suitable frequency step according to the frequency band.
- The frequency steps that can be selected depend on the frequency band.



## Changing the Transmit Power Level

The transmit power level can also be changed using the function list.

1. Press the [**F MENU**] key.
2. Rotate the **DIAL** knob to select [**F-30 TX PWR**], then press the **DIAL** knob.
- With the factory default setting, it is registered in the “Function list” that is displayed when you press the [**F MENU**] key.
3. Rotate the **DIAL** knob to select the transmit power output.  
“**LOW**”→“**MID**”→“**HIGH**”
4. Press the **DIAL** knob to complete the setting.



| HIGH | MID  | LOW |
|------|------|-----|
| 50 W | 25 W | 5 W |

\*: The factory setting is “**HIGH**”.

**i**

- When the “**TX PWR**” function is assigned to the [**P2**], [**P2**], [**P3**] or [**P4**] key of the microphone, the assigned key may be used as the Transmit Power Level select key.
- 1. Press and hold the [**F MENU**] key.
- 2. Rotate the **DIAL** knob to select [**14 MIC.PGM**], then press the **DIAL** knob.
- 3. Rotate the **DIAL** knob to select a key to assign a function [**PGM.P1**] / [**PGM.P2**] / [**PGM.P3**] / [**PGM.P4**] then press the **DIAL** knob.
- 5. Rotate the **DIAL** knob to select a “**TX PWR**” then press the **DIAL** knob.
- The transmit power output can be set individually for each frequency band (144MHz or 430MHz bands) and memory channel.



For additional details on the following Functions, refer to the Advanced Manual which may be downloaded from the Yaesu website.

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## **Tone squelch feature**

The tone squelch opens the speaker audio only when a signal containing the specified CTCSS tone is received. By matching the tone frequency with the partner station in advance, a quiet standby is possible.

## **Digital Code squelch (DCS) feature**

DCS (Digital Coded Squelch) function allows audio to be heard only when signals containing the matching DCS code are received.

## **PAGER (EPCS) feature**

This feature allows calling specified stations only, by using a pager code that combines two CTCSS tones. Even when the person who is called is not near the transceiver, the information is displayed on the LCD to indicate that a call was received. When the call is received, the bell sounds.

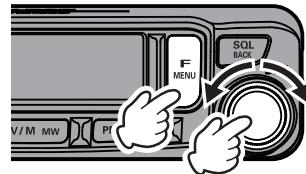
## **Automatic Range Transponder System (ARTS)**

The ARTS feature uses DCS signaling to inform both parties when you and another ARTS equipped station are within communications range.

The Menu list Mode permits configuring the various functions to accommodate individual operating needs and preferences.

## Menu List Operation

1. Press and hold the [**F MENU**] key.  
The Menu list will be displayed.
2. Rotate the **DIAL** knob to select the desired item in the Menu list, then press the **DIAL** knob.



---

- Items displayed by “-----” are assigned to the “function list” that is displayed by pressing [**F MENU**] key.
- With the factory default setting, “F-12 HOME”, “F-19 RPT.REV”, “F-20 RPT.SET”, and “F-30 TX PWR” are assigned to the function list.
- To select an item in the “Function list”, press and hold the [**SQL BACK**] key, the assignment to the “Function list” will be canceled and the function can display it in the menu list mode.



Assigned to a function list



Display in Menu list Mode

---

3. Rotate the **DIAL** knob to change the setting value.
4. Press the **DIAL** knob to return to normal operation.

## Tables of Menu list Operations

**Note:** For details, refer to the Advanced Manual (download from the Yaesu website).

| Number /<br>Menu Item | Description   | Selectable options<br>(Options in <b>bold</b> are the default settings)                      |
|-----------------------|---|--|
| 01: APO               | Enables/Disables the Automatic Power Off feature                                  | <b>OFF</b> / 0.5H 1.0H / 1.5H / 2.0H to 12.0H  |
| 02: AR MOD            | Select the ARTS Beep mode   | <b>OFF</b> / <b>IN RNG</b> / OUTRNG  |
| 03: AR INT            | Select the Polling Interval during ARTS operation                                 | <b>30 SEC</b> / 1 MIN  |
| 04: BCLO              | Enables/Disables the Busy Channel Lock-Out feature                                | <b>OFF</b> / ON  |
| 05: BEEP              | Set the beep level  | <b>OFF</b> / <b>LOW</b> / HIGH   |
| 06: BELL              | Select the CTCSS/DCS/EPCS Bell Ringer repetitions                                 | <b>OFF</b> / 1TIME / 3TIMES / 5TIMES / 8TIMES / CONTI  |
| 07: CLK.TYP           | Shift the CPU clock frequency   | <b>TYP A</b> / TYP B   |
| 08: DIMMER            | Set the front panel display illumination level                                    | <b>OFF</b> / MID / MAX   |
| 09: DTMF              | Enable/Disable the DTMF Autodialer feature  | <b>MANUAL</b> / AUTO   |
| 10: DT TX             | Load DTMF Autodialer Memories.  | ---  |
| 11: DT MEM            | Register a DTMF code  | CH1 to CH9   |
| 12: HOME*             | Recall the home channel   | Depends on the transceiver version.  |
| 13: MIC.GIN           | Adjust the microphone gain level  | MIN / LOW / <b>NORMAL</b> / HIGH / MAX   |
| 14: MIC.PGM           |   |  |
| PGM.P1                | Program the function assigned to the Microphone <b>[P1]</b> key                   | ARTS / SCN ON / HOME / RPT.SHIFT / RPT.REV / TX PWR / SQL OFF / T-CALL / DW / WX             |
| PGM.P2                | Program the function assigned to the Microphone <b>[P2]</b> key                   | Default values:<br>P1: <b>SQL OFF</b><br>P2: <b>HOME</b>                                     |
| PGM.P3                | Program the function assigned to the Microphone <b>[P3]</b> key                   | P3: <b>SCN ON</b><br>P4: <b>WX</b> (USA version)<br>T-CALL (European/Asian versions)         |
| PGM.P4                | Program the function assigned to the Microphone <b>[P4]</b> key                   |  |
| 15: PAGER             |   |  |
| PAG.CDR               | Set the Receive Pager Code for the Enhanced CTCSS Paging & Code Squelch function  | 01 to 50<br>Default value: R05.47  |
| PAG.CDT               | Set the Transmit Pager Code for the Enhanced CTCSS Paging & Code Squelch function | 01 to 50<br>Default value: T05.47  |
| 16: PKT.SPD           | DATA communication baud rate settings   | <b>1200BP</b> / 9600BP   |
| 17: RX MODE           | Select the receive mode   | <b>AUTO</b> / FM / AM  |
| 18: BND.SEL           | Set the frequency bands that can be selected                                      | AIR: <b>ON</b> / OFF<br>VHF: <b>ON</b> / OFF<br>UHF: <b>ON</b> / OFF<br>OTH: <b>ON</b> / OFF |

| Number /<br>Menu Item | Description   | Selectable options<br>(Options in <b>bold</b> are the default settings)   |
|-----------------------|---|---|
| 19: RPT.REV*          | Reverses the transmit and receive frequencies while working through a repeater. | ---   |
| 20: RPT.SET*          | Set the Repeater Shift direction  | <b>SIMP</b> / -SFT / +SFT   |
| 21: RPT.OTR           |   |   |
| RPT.ARS               | Activate/Deactivate the Automatic Repeater Shift feature                        | <b>OFF</b> / <b>ON</b>  |
| RPT.FRQ               | Set the magnitude of the Repeater Shift   | 0.00 - 99.95 (MHz)<br>(Depends on the transceiver version.)   |
| 22: SCN.ON            | Engages the Scan operation  | ---   |
| 23: SCN.TYP           |   |   |
| SCN.RSM               | Select the Scan Resume mode   | <b>BUSY</b> / <b>HOLD</b> / <b>1 SEC</b> / <b>3 SEC</b> / <b>5 SEC</b>  |
| DW RVT                | Enable/Disable the "Primary Channel Revert" feature.                            | <b>OFF</b> / <b>ON</b>  |
| 24: SQL.TYP           | Selects the Tone Encoder and/or Decoder mode.                                   | <b>OFF</b> / TON.ENC / TON.SQL / REV.TON / DCS / PR FRQ / PAGER / DCS.ENC* / TONE.DCS* / DCS.TSQ*<br>*Displayed when "26 SQL.EXP" is "ON".            |
| 25: SQL.COD           | Set the CTCSS Tone Frequency or the DCS code.                                   | CTCSS: 67.0 to 254.1 (Hz) ( <b>100.0Hz</b> )<br>DCS: 104 standard DCS codes ( <b>023</b> )  |
| 26: SQL.EXP           | Enable/Disable the split CTCSS/DCS coding                                       | <b>OFF</b> / <b>ON</b>  |
| 27: STEP              | Set the frequency synthesizer steps   | <b>AUTO</b> / 5 / 6.25 / (8.33) / 10 / 12.5 / 15 / 20 / 25 / 50 / 100 (kHz)<br>(8.33 kHz: only for Air band)  |
| 28: xx.xF (C)         | Indicates the current temperature inside the transceiver                        | ---   |
| 29: TOT               | Set the Time-Out Timer  | <b>OFF*</b> / <b>1 MIN</b> / <b>2 MIN</b> / <b>3 MIN</b> / <b>5 MIN*</b> / 10 MIN / 15 MIN / 20 MIN / 30 MIN<br>(Depends on the transceiver version.) |
| 30: TX PWR*           | Set the transmit power level.   | <b>LOW</b> / <b>MID</b> / <b>HIGH</b>   |
| 31: VER.DSP           | Display the transceiver software version  | Mxx.xx (MAIN)<br>Pxx.xx (PANEL)   |
| 32: xx.xV             | Indicates the DC Supply Voltage.  | ---   |
| 33: WIDTH             | Set the FM transmit modulation level and receiver bandwidth                     | <b>WIDE</b> / <b>NARROW</b>   |
| 34: WX ALT            | Weather alert operation setting   | <b>OFF</b> / <b>ON</b>  |
| 35: BLT               |   |   |
| BLT.OFF               | Set the Bluetooth function  | <b>OFF</b> / <b>ON</b>  |
| BLT.LST               | Bluetooth device list   | ---   |
| BLT.SAV               | Set the Bluetooth save function   | <b>OFF</b> / <b>ON</b>  |
| BLT.AF                | Set the Bluetooth received audio output   | <b>AUTO</b> / <b>FIX</b>  |

\* In the factory default, the grayed settings are assigned to the "Function list" that is displayed when the **[F MENU]** key is pressed.

## Restoring to Defaults (All Reset)

### Caution

When the All Reset function is performed, all data registered in the memory will be deleted. Be sure to keep a separate record of the information registered to the memory channels.

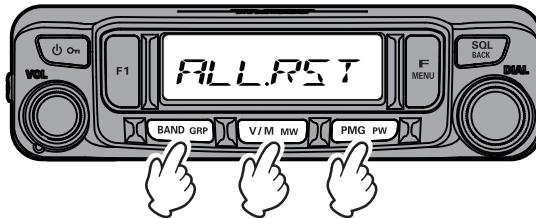
To restore all transceiver settings and memory content to the factory defaults.



The all reset can be canceled by pressing the PTT switch during the operation.

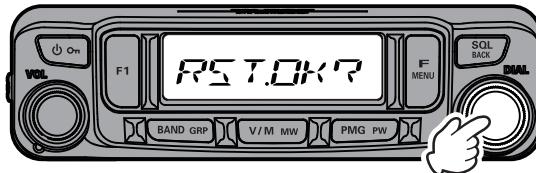
1. Turn the transceiver **OFF**.
2. Simultaneously, press and hold the [**BAND GRP**], [**V/M MW**] and the [**PMG PW**] keys, and turn the transceiver **ON**.

“**ALL.RST**” appears on the LCD.



3. Press the **DIAL** knob.

“**ALL.RST**” appears on the LCD.



4. Press the **DIAL** knob again.

The display indicates “**RST.ING**”, then changes to “**RST.CMP**” when all resets are complete.

## ● General

|                               |  |
|-------------------------------|--|
| Frequency Range               | : TX 144 - 148MHz or 144 - 146MHz<br>430 - 450MHz or 430 - 440MHz<br>(Depends on the transceiver version)  |
|                               | : RX 108 - 137MHz (AIR Band)<br>137 - 174MHz (144MHz HAM / VHF Band)<br>174 - 400MHz (GEN)<br>400 - 480MHz (430MHz HAM / UHF Band)<br>480 - 999.99MHz (GEN) (USA Cellular Blocked) |
| Channel Steps                 | : 5 / 6.25 / 8.33 / 10 / 12.5 / 15 / 20 / 25 / 50 / 100kHz<br>(8.33kHz: only for Air band)   |
| Mode of Emission              | : F2D, F3E   |
| Frequency Stability           | : ±2.5ppm (-4°F to +140°F [-20°C to +60°C])  |
| Antenna Impedance             | : 50Ω  |
| Supply Voltage                | : Nominal 13.8V DC, negative ground  |
| Current Consumption (approx.) | : 0.5A (Receive)<br>10A (50W TX, 144MHz)<br>10A (50W TX, 430MHz)   |
| Operating Temperature Range   | : -4°F to +140°F (-20°C to +60°C)  |
| Case Size (W x H x D)         | : Radio unit 5.47" x 1.66" x 5.2" (139 x 42 x 132mm) (w/o Fan)<br>Controller 5.51" x 1.6" x 1.38" (140 x 40.5 x 35mm) (w/o Knob)   |
| Weight (approx.)              | : 2.43lbs (1.1kg) (with Radio Unit, Controller, Control Cable)   |

## ● Transmitter

|                      |   |
|----------------------|---|
| RF Power Output      | : 50W / 25W / 5W                          |
| Modulation Type      | : F2D, F3E: Variable Reactance Modulation |
| Maximum Deviation    | : ±5kHz                                   |
| Spurious Emission    | : At least 60dB below                     |
| Microphone Impedance | : 2kΩ                                     |
| DATA Jack Impedance  | : 10kΩ                                    |

## ● Receiver

|                                   |  |
|-----------------------------------|--|
| Circuit Type                      | : Double-Conversion Super heterodyne   |
| Intermediate Frequency            | : 1st: 58.05MHz, 2nd: 450kHz   |
| Sensitivity                       | : 0.8µV TYP for 10dB SN (108 - 137MHz, @AM)<br>0.2µV for 12dB SINAD (137 - 140MHz, @FM)<br>0.2µV for 12dB SINAD (140 - 150MHz, @FM)<br>0.25µV for 12dB SINAD (150 - 174MHz, @FM)<br>0.3µV TYP for 12dB SINAD (174 - 222MHz, @FM)<br>0.25µV TYP for 12dB SINAD (222 - 300MHz, @FM)<br>0.8µV TYP for 10dB SINAD (300 - 336MHz, @AM)<br>0.25µV for 12dB SINAD (336 - 420MHz, @FM)<br>0.2µV for 12dB SINAD (420 - 470MHz, @FM)<br>0.2µV for 12dB SINAD (470 - 540MHz, @FM)<br>0.8µV for 12dB SINAD (540 - 800MHz, @FM)<br>0.4µV TYP for 12dB SINAD (800 - 900MHz, @FM)<br>0.8µV TYP for 12dB SINAD (900 - 999.99MHz, @FM)<br>Cellular Blocked (USA only) |
| Selectivity (-6dB/-60dB)          | : NFM, AM 12kHz / 30kHz  |
| AF Output                         | : 3W (8Ω, THD10%, 13.8V) Internal Speaker<br>3W (8Ω, THD10%, 13.8V) External Speaker   |
| AF Output Impedance               | : 8Ω   |
| Strength of secondary radio waves | : 4nW and below  |

## ● Bluetooth (Optional BU-4)

|              |               |
|--------------|---------------|
| Version      | : Version 4.2 |
| Class        | : Class 2     |
| Output Power | : 2dBm        |

Specifications are subject to change without notice, and are guaranteed within the 144/430MHz amateur bands only.

The Bluetooth® wordmark and logo are registered trademarks owned by Bluetooth SIG, Inc. and are used under license by Yaesu Musen Co., Ltd.

### About internal spurious signals

The internal oscillator frequency relationship below may cause some effect on the receiver mixer and IF circuits. However, this is not a malfunction (refer to the calculation formulas below: n is any integer).

- Reception frequency = 16 MHz x n times
- Reception frequency = 12 MHz x n times
- Reception frequency = 57.6 MHz x n times
- Reception frequency = 44 MHz x n times

# YAESU LIMITED WARRANTY

Limited Warranty is valid only in the country/region where this product was originally purchased.

## On-line Warranty Registration:

Thank you for buying YAESU products! We are confident your new radio will serve your needs for many years! Please register your product at [www.yaesu.com](http://www.yaesu.com) - Owner's Corner

## Warranty Terms:

Subject to the Limitations of the Warranty and the Warranty Procedures described below, YAESU MUSEN hereby warrants this product to be free of defects in materials and workmanship in normal use during the "Warranty Period." (the "Limited Warranty").

## Limitations of Warranty:

- A. YAESU MUSEN is not liable for any express warranties except the Limited Warranty described above.
- B. The Limited Warranty is extended only to the original end-use purchaser or the person receiving this product as a gift, and shall not be extended to any other person or transferee.
- C. Unless a different warranty period is stated with this YAESU product, the Warranty Period is three years from the date of retail purchase by the original end-use purchaser.
- D. The Limited Warranty is valid only in the country/region where this product was originally purchased.
- E. During the Warranty Period, YAESU MUSEN will, at its sole option, repair or replace (using new or refurbished replacement parts) any defective parts within a reasonable period of time and free of charge.
- F. The Limited Warranty does not cover shipping cost (including transportation and insurance) from you to us, or any import fees, duties or taxes.
- G. The Limited Warranty does not cover any impairment caused by tampering, misuse, failure to follow instructions supplied with the product, unauthorized modifications, or damage to this product for any reasons, such as: accident; excess moisture; lightning; power surges; connection to improper voltage supply; damage caused by inadequate packing or shipping procedures; loss of, damage to or corruption of stored data; product modification to enable operation in another country/purpose other than the country/purpose for which it was designed, manufactured, approved and/or authorized; or the repair of products damaged by these modifications.
- H. The Limited Warranty applies only to the product as it existed at the time of the original purchase, by the original retail purchaser, and shall not preclude YAESU MUSEN from later making any changes in design, adding to, or otherwise improving subsequent versions of this product, or impose upon YAESU MUSEN any obligation to modify or alter this product to conform to such changes, or improvements.
- I. YAESU MUSEN assumes no responsibility for any consequential damages caused by, or arising out of, any such defect in materials or workmanship.
- J. TO THE FULLEST EXTENT PERMITTED BY LAW, YAESU MUSEN SHALL NOT BE RESPONSIBLE FOR ANY IMPLIED WARRANTY WITH RESPECT TO THIS PRODUCT.
- K. If the original retail purchaser timely complies with the Warranty Procedures described below, and YAESU MUSEN elects to send the purchaser a replacement product rather than repair the "original product", then the Limited Warranty shall apply to the replacement product only for the remainder of the original product Warranty Period.
- L. Warranty statutes vary from state to state, or country to country, so some of the above limitations may not apply to your location.

**Warranty Procedures:**

1. To find the Authorized YAESU Service Center in your country/region, visit [www.yaesu.com](http://www.yaesu.com). Contact the YAESU Service Center for specific return and shipping instructions, or contact an authorized YAESU dealer/distributor from whom the product was originally purchased.
2. Include proof of original purchase from an authorized YAESU dealer/distributor, and ship the product, freight prepaid, to the address provided by the YAESU Service Center in your country/region.
3. Upon receipt of this product, returned in accordance with the procedures described above, by the YAESU Authorized Service Center, all reasonable efforts will be expended by YAESU MUSEN to cause this product to conform to its original specifications. YAESU MUSEN will return the repaired product (or a replacement product) free of charge to the original purchaser. The decision to repair or replace this product is the sole discretion of YAESU MUSEN.

**Other conditions:**

YAESU MUSEN'S MAXIMUM LIABILITY SHALL NOT EXCEED THE ACTUAL PURCHASE PRICE PAID FOR THE PRODUCT. IN NO EVENT SHALL YAESU MUSEN BE LIABLE FOR LOSS OF, DAMAGE TO OR CORRUPTION OF STORED DATA, OR FOR SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR INDIRECT DAMAGES, HOW EVER CAUSED; INCLUDING WITHOUT LIMITATION TO THE REPLACEMENT OF EQUIPMENT AND PROPERTY, AND ANY COSTS OF RECOVERING, PROGRAMMING OR REPRODUCING ANY PROGRAM OR DATA STORED IN OR USED WITH THE YAESU PRODUCT.

Some Countries in Europe and some States of the USA do not allow the exclusion or limitation of incidental or consequential damages, or a limitation on how long an implied warranty lasts, so the above limitation or exclusions may not apply. This warranty provides specific rights, there may be other rights available which may vary between countries in Europe or from state to state within the USA.

This Limited Warranty is void if the label bearing the serial number has been removed or defaced.



Changes or modifications to this device that are not expressly approved by YAESU MUSEN could void the user's authorization to operate this device.

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 including received, interference that may cause undesired operation.

The scanning receiver in this equipment is incapable of tuning, or readily being altered, by the User to operate within the frequency bands allocated to the Domestic public Cellular Telecommunications Service in Part 22.

The YAESU MUSEN is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

This device complies with ISED's applicable license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

#### **DECLARATION BY MANUFACTURER**

The Scanner receiver is not a digital scanner and is incapable of being converted or modified to a digital scanner receiver by any user.

**WARNING: MODIFICATION OF THIS DEVICE TO RECEIVE CELLULAR RADIOTELEPHONE SERVICE SIGNALS IS PROHIBITED UNDER FCC RULES AND FEDERAL LAW.**

CAN ICES-3 (B) / NMB-3 (B)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. 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 to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC/IC radiation exposure limits and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that is deemed to comply without testing of specific absorption rate (SAR).

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

# YAESU

## Declaration of Conformity

Type of Equipment: 144/430MHz Digital/Analog Transceiver  
Brand Name: YAESU  
Model Number: FTM-6000R  
Manufacturer: YAESU MUSEN CO., LTD.  
Address of Manufacturer: Tennozu Parkside Building, 2-5-8 Higashi-Shinagawa, Shinagawa-ku, Tokyo 140-0002 Japan

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.

The technical documentation as required by the Conformity Assessment procedures is kept at the following address:

Company: Yaesu U.S.A.

Address: 6125 Phyllis Drive, Cypress, CA 90630, U.S.A.

Telephone: (714) 827-7600

## **EU Declaration of Conformity**

We, Yaesu Musen Co. Ltd of Tokyo, Japan, hereby declare that this radio equipment FTM-6000E is in full compliance with EU Radio Equipment Directive 2014/53/EU. The full text of the Declaration of Conformity for this product is available to view at <http://www.yaesu.com/jp/red>

### **ATTENTION – Condition of use**

This transceiver operates on frequencies that are regulated. Use of the Transmitter in the EU countries shown in the accompanying table is not permitted without authorization. Users should consult their local spectrum management authority for licensing conditions applicable to this equipment.

|  |    |    |    |    |    |  |
|---|----|----|----|----|----|--|
| AT  | BE | BG | CY | CZ | DE |  |
| DK  | ES | EE | FI | FR | UK |  |
| EL  | HR | HU | IE | IT | LT |  |
| LU  | LV | MT | NL | PL | PT |  |
| RO  | SK | SI | SE | CH | IS |  |
| LI  | NO | –  | –  | –  | –  |  |

### **Disposal of Electronic and Electrical Equipment**

Products with the symbol (crossed-out wheeled bin) cannot be disposed as household waste.

Electronic and Electrical Equipment should be recycled at a facility capable of handling these items and their waste by-products.

Please contact a local equipment supplier representative or service center for information about the waste collection system in your country.





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