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Recording a QSO audio

This transceiver is equipped with a QSO recorder not only for the receive audio, but also for the transmit audio.

This function is useful to make a QSO record or to confirm your QSO with a rare entity's station or on a DX'pedition. You can also use the function to repeatedly send the same message.

The recorded contents are saved onto an SD card. There are 2 ways to record the communication.

NOTE:

- To record a QSO, an SD card (user supplied) is required.
- If your SD card does not have an "IC-7300" folder, back up any data on the SD card, insert it in the transceivers card slot and then format it using the built-in format function. See "Formatting an SD card" (p. 8-3) for details.
- Once the recording starts, it continues, even if the transceiver is turned OFF and ON again.
- The recording continues until you touch <<REC Stop>> or the free space on the SD card has run out.
- When the recording file's content becomes 2 GB, the transceiver continues to record, but to a new file.

TIP: When the PTT Automatic Recording function is set to ON in the Voice set mode, the recording automatically starts when you push [PTT]. (p. 6-8)

TIP: About recording

- After the recording starts, a folder and file are automatically created on the SD card.
 - ① The folder name is formatted yyyyymmdd (yyyy: year, mm: month, dd: day).
 - ① The file name is formatted yyyy-mm-dd hh:mm:ss (yyyy: year, mm: month, dd: day, hh: hour, mm: minute, ss: second).
 - ① The audio files recorded on the same day are saved in the same folder.
- While recording, **●** is lit and **SD** blinks.
- While standing by, the recording pauses.
- While pausing, **■** blinks.
- When you touch **●**, "Stop recording?" is displayed.
 - ① If you touch [YES], the recording stops and the dialogue box disappears.
 - ① If you touch [NO], the dialogue box disappears and the recording continues.
- After the recording stops, **●** turns OFF.

◊ Quick recording

You can quickly record receive audio.

1. Push **QUICK**.
 - Opens the QUICK MENU screen.
2. Touch "<<REC Start>>."



- Starts recording.
- "Recording started." is briefly displayed.

3. Push **QUICK** again.
 - Opens the QUICK MENU screen.
4. Touch "<<REC Stop>>."



- Stops recording.
- "Recording stopped." is briefly displayed.

◊ Basic recording

You can record both receive and transmit audio.

1. Open the QSO RECORDER screen.
MENU » **RECORD**
2. Touch "<<REC Start>>."



- Starts recording.
- "Recording started." is briefly displayed.

3. Touch "<<REC Stop>>."



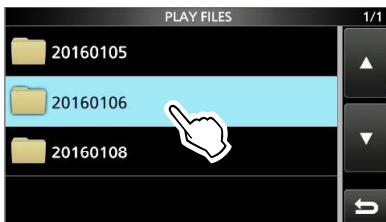
- Stops recording.
- "Recording stopped." is briefly displayed.

4. To close the QSO RECORDER screen, push **EXIT**.

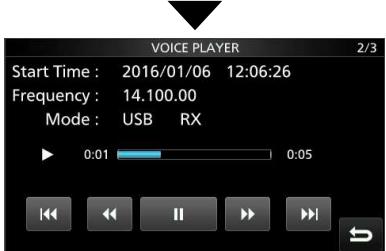
Playing back a QSO audio

You can playback the recorded QSO audio.

1. Open the PLAY FILES screen.
[MENU] » [RECORD > Play Files]
 - The folder list is displayed.
2. Touch the folder that the file you want to playback is saved.
 ① The folder is named in the following manner, "yyyymmdd" (yyy: Year, mm: month, dd: day).



3. Touch the desired file.



- Starts a playback.
 ① Playback continues to the next file, and stops when the last file in the folder is played back.

4. To close the PLAY FILES screen, push **[EXIT]** several times.

Operation while playing back

You can fast forward or rewind while playing back. You can change the skip time in the PLAYER SET screen. (Default: 10 seconds)

[MENU] » [RECORD > Player Set > Skip Time]

◊ Fast forward while playing

Touch **[▶]** to fast forward to the skip time point. (Default: 10 seconds)

◊ Rewind while playing

Touch **[◀]** to rewind to the skip time point. (Default: 10 seconds)

① If you touch **[◀]** within the first 1 second of the file, at the end of the previously recorded file will play back.

◊ Pause while playing

Touch **[■]**.

① **[▶]** is displayed while pausing.

② To cancel the pausing, touch **[▶]**.

◊ Playing the previous file

Touch **[◀]** to play the previous file.

① If there are other files in the folder, while the oldest file is playing back, touch **[◀]** to start playing the beginning of the file.

◊ Playing the next file

Touch **[▶]** to play the next file.

① If there are other files in the folder, while the most recent file is playing back, touch **[▶]** to stop the playback.

◊ Moving to the beginning of the previous file

● While paused, touch **[◀]** to move to the beginning of the previous file.

① To playback the file, touch **[▶]**.

● While paused, touch **[◀]** to return to the beginning of the file.

① To playback the file, touch **[▶]**.

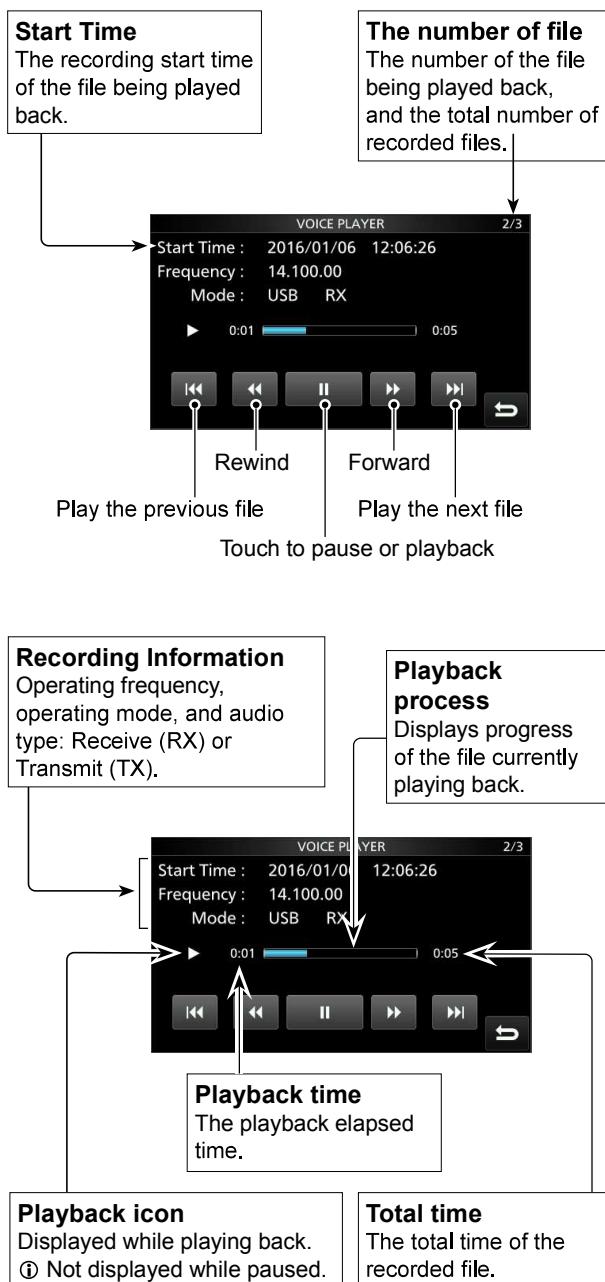
◊ Moving to the beginning of the next file

While paused, touch **[▶]** to move to the beginning of the next file.

① To playback the file, touch **[▶]**.

Operation while playing back

◊ VOICE PLAYER screen



Checking the file information

The transceiver can display the recorded file's operating frequency, operating mode, date, and so on.

1. Open the PLAY FILES screen.

MENU » **RECORD > Play Files**

• The folder list is displayed.

2. Select a folder that contains the file you want to playback.



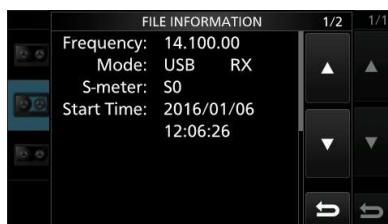
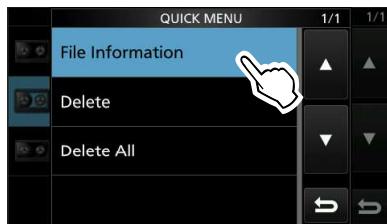
• The file list is displayed.

3. Touch the desired file to check for 1 second.



• Opens the QUICK MENU screen.

4. Touch "File Information."

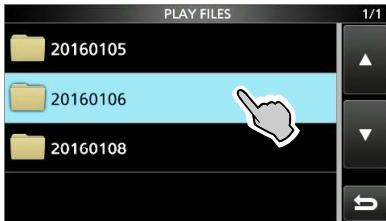


5. To close the PLAY FILES screen, push **EXIT** several times.

Checking the folder information

The transceiver can display the folder's name, number of the files in the folder, total capacity of the files and date.

1. Open the PLAY FILES screen.
MENU » **RECORD > Play Files**
 - The folder list is displayed.
2. Touch the desired folder you want to check the contents of for 1 second.



- Opens the QUICK MENU screen.

3. Touch "Folder Information."



4. To close the PLAY FILES screen, push **EXIT** several times.

Deleting a file

You can delete the recorded audio file.

1. Open the PLAY FILES screen.
MENU » **RECORD > Play Files**
 - The folder list is displayed.
2. Touch a folder that contains the file you want to delete.



- The file list is displayed.

3. Touch the desired file to delete for 1 second.



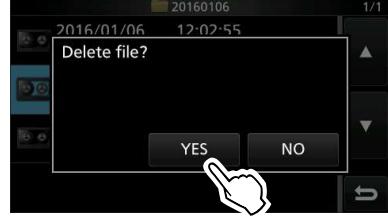
- Opens the QUICK MENU screen.

4. Touch "Delete."



• "Delete file?" is displayed.

5. Touch [YES].



• The selected file is deleted.

6. To close the PLAY FILES screen, push **EXIT** several times.

◊ Deleting all files

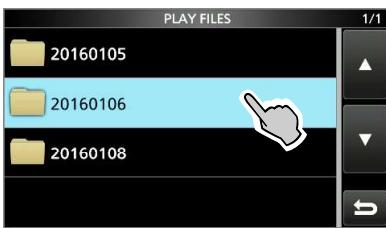
If you want to delete all audio files in the folder at one time, select "Delete All" in step 4 above.

Deleting a folder

You can delete the recorded audio folders.

NOTE: All the files in the folder are also deleted.

1. Open the PLAY FILES screen.
[MENU] » RECORD > Play Files
 - The folder list is displayed.
2. Touch the desired folder to delete for 1 second.



- Opens the QUICK MENU screen.

3. Touch "Delete."

• "Delete folder?" is displayed.

4. Touch [YES].



- The selected folder is deleted.

5. To close the PLAY FILES screen, push **EXIT** several times.

◊ Deleting all folders

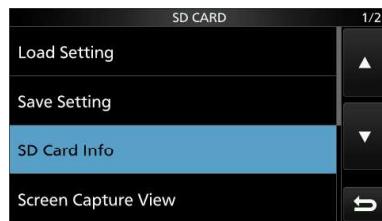
If you want to delete all folders at one time, select "Delete All Folders" in step 3 above.

SD Card information

1. Open the SD CARD screen.

[MENU] » SET > SD Card

2. Select "SD Card Info."



• The SD CARD INFO screen is displayed.



The SD CARD INFO screen

3. To close the SD CARD screen, push **EXIT** several times.

Playing back the recorded file on a PC

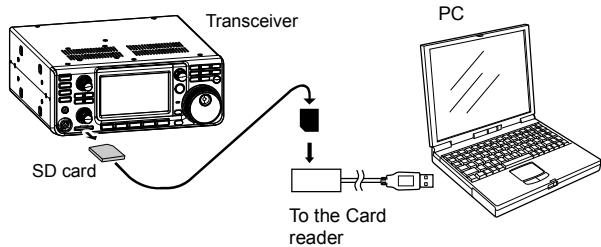
You can also playback the voice memory data on a PC.

- ① The recorded information (frequency, date, and so on) is not displayed.
- ② Microsoft Windows 10 is used for the description below.

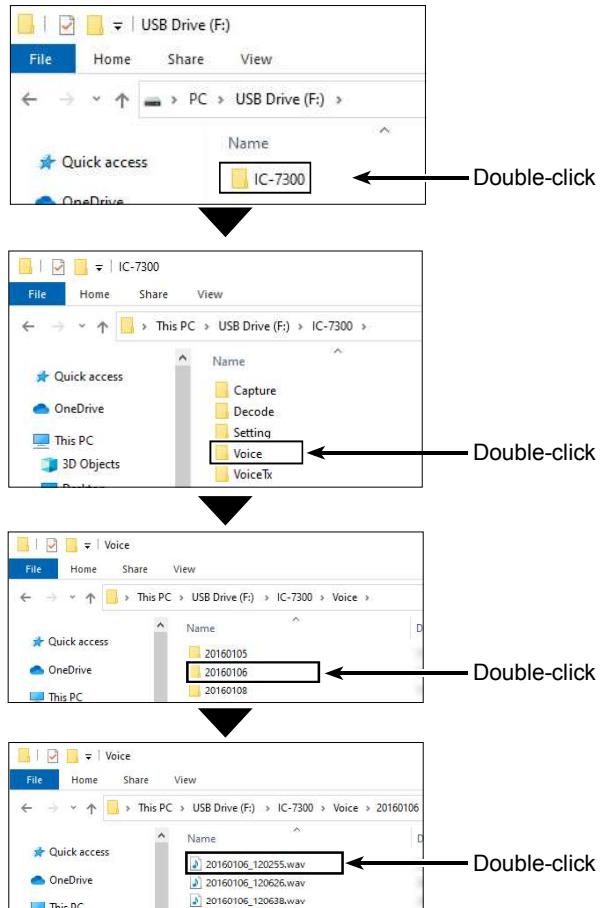
NOTE:

- The operations while playing back may differ, depending on the application. Refer to the application's instruction manual for details.
- When the file does not playback, even if you double click the file, download an appropriate software. (Example: Windows Media® Player)

1. Insert the SD card into your PC's SD card slot.
① If your PC does not have an SD card drive, connect a memory card reader (user supplied) to the PC, and then insert the SD card into the reader.
2. Open the SD card folder view.
• The "IC-7300" folder is displayed.
3. Double-click the "IC-7300" folder.



4. Double-click the "Voice" folder.



5. Double-click the folder where the file you want to playback is saved.
(Example: 20160106 folder)

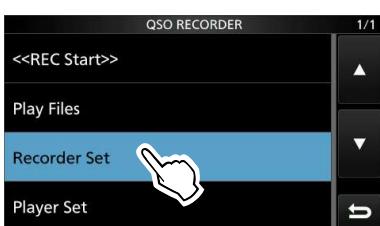
6. To playback the file, double-click it.
(Example: 20160106_120255.wav)

RECORDER SET screen

You can change the RECORDER SET settings. Details on each setting item are described below.

(Example: Setting the REC mode.)

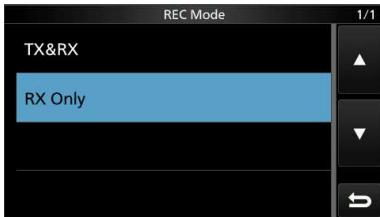
1. Open the QSO RECORDER screen.
MENU » **RECORD**
2. Touch “Recorder Set.”



3. Select “REC Mode”.



4. Select the REC mode “TX&RX” or “RX Only.”



5. To close the RECORDER SET screen, push **EXIT** several times.

REC Mode (Default: TX&RX)

Select the recording mode to record a QSO audio.

- TX&RX: Records both the transmitted and received audio.
- RX Only: Records only the received audio.

TX REC Audio (Default: Direct)

Select the recording audio to transmit.

- Direct: Records the microphone audio.
- Monitor: Records the TX monitor audio.

RX REC Condition (Default: Squelch Auto)

Select the recording condition for receive.

- Always: Records even if no signal is received.
- Squelch Auto: Records only when the squelch opens.
(The recording will be paused when the squelch closes while recording.)

File Split

(Default: ON)

Turn the File Split function ON or OFF.

- OFF: The audio is continuously recorded into the file even if you switch between transmit and receive or the squelch status changes between open and closed. When the recording file's size becomes 2 GB, the transceiver continues to record, but to a new file.
- ON: While recording, and if you switch between transmit and receive, or the squelch status changes between open and closed, a new file is automatically created in the same folder, and the audio is saved into the new one.

PTT Auto REC

(Default: OFF)

Turn the PTT Automatic Recording function ON or OFF.

- OFF: The recording does not start, even if a signal is transmitted.
- ON: The recording automatically starts when a signal is transmitted.

The recording will stop when:

- 10 seconds has passed without transmission after the last transmission.
- 10 minutes has passed with no signal after the last transmission.
 - If you receive a signal within 10 seconds after the last transmission, the received audio is also recorded.
 - If you receive another signal within 10 seconds after the last reception, the received audio is also recorded.
- 10 minutes has past while operating with the squelch is open in the SSB, CW, RTTY, or AM mode.
- The frequency or operating mode is changed.
- The operating method (V/M, M-CH, Band Stacking Register, and so on) is changed.

PRE-REC for PTT Auto REC

(Default: 10sec)

Select whether or not record the audio that is received before the PTT Automatic Recording function is activated.

- OFF: Does not record the audio.
- 5sec/10sec/15sec:
Records the audio that is previously received in this set period of time.

TIP: How to reset to the default setting

Touching the item or its option for 1 second displays the Quick menu, and then touch “Default” to reset to the default setting.

PLAYER SET screen

You can fast forward or rewind while playing back.
You can change the skip time in the PLAYER SET screen.

1. Open the QSO RECORDER screen.

MENU » **RECORD**

2. Touch “Player Set.”



3. Select “Skip Time.”



4. Select your desired option.

- Options: 3sec, 5sec, 10sec, or 30sec.



5. To close the RECORD screen, push **EXIT** several times.

TIP: How to reset to the default setting

Touching the item or its option for 1 second displays the Quick menu, and then touch “Default” to reset to the default setting.

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Recording a Voice TX memory

You can record up to 8 Voice transmit memories of up to 1 and a half minutes in each memory.

To transmit recorded content using a Voice TX memory, first record the desired message, as described below.

- ① A user supplied SD card is required to use the Voice TX memory function.
- ② You can also transmit the recorded content using an external keypad (pp. 2-2, 12-10).

◊ Recording

1. Open the VOICE TX screen in a Voice mode.
① (Voice mode: SSB, AM or FM modes).

MENU » **VOICE**

- ① You can select [VOICE] on the MENU screen only while in a Voice mode.
- 2. Touch [REC/SET].



- Opens the REC/SET screen.
- 3. Touch the "REC" item.



- Opens the VOICE TX RECORD screen.
- 4. Select the desired Voice memory "T1" ~ "T8."



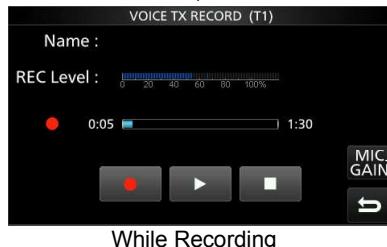
- Opens the selected Voice memory.

TIP: How to clear the recorded content
Touching the Voice memory for 1 second in step 4 above displays the Quick menu, and then touch "Clear."

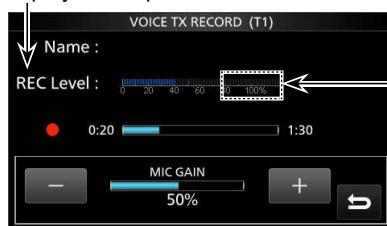
5. Touch to start recording.

① Information

- You can record up to 1 and a half minutes in each memory.
- Without holding down [PTT], speak into the microphone at your normal voice level.
- Previously recorded content is overwritten.



Displays the input audio level



6. Touch to stop recording.
7. To close the VOICE TX screen, push **EXIT** several times.

◊ Playing back

1. Do steps 1 ~ 3 as described to the left to display the VOICE TX RECORD screen.
2. Rotate **MULTI** to select the desired Voice memory "T1" ~ "T8," and then push **MULTI**.
3. Push to start the playback.
① Playback is automatically terminated when all of the recorded content in the memory is played back.
② To stop while playing back, touch .
4. To close the VOICE TX screen, push **EXIT** several times.

Entering a recording name

You can assign a name of up to 16 characters to each of the Voice memories “T1” ~ “T8.”

You can use upper case letters, lower case letters, numbers, some symbols and spaces.

[Example: Entering “Contest” in Memory T1]

1. Open the VOICE TX screen in a Voice mode.
①(Voice mode: SSB, AM or FM modes).

[MENU] » [VOICE]

2. Touch [REC/SET].



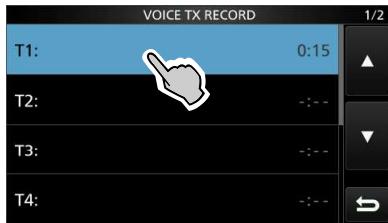
- Opens the REC/SET screen.

3. Touch the “REC” item.



- Opens the VOICE TX RECORD screen.

4. Touch [▲] or [▼] to display the desired Voice memories “T1” ~ “T4” or “T5” ~ “T8,” and then touch the memory for 1 second.



- Opens the QUICK MENU screen.

5. Touch “Edit Name.”



- Opens the Name editing screen.
- 6. Enter a name of up to 16 characters.
①See “Keyboard entering and editing” (p. 1-9) for details.

7. Touch [ENT] to save the entered name.
• The Name editing screen closes and returns to the VOICE TX RECORD screen.
• The entered name is displayed.



8. To close the VOICE TX RECORD screen, push **EXIT**.



- ①The memory name is also displayed on the VOICE TX screen.

Transmitting a Voice memory content

You can transmit the Voice TX memory contents once or repeatedly. This is useful for transmitting your call sign and contest name in some contests, or repeatedly calling CQ.

◊ Transmitting

Transmits the prerecorded content. (p. 6-2)

1. Open the VOICE TX screen in a Voice mode.
①(Voice mode: SSB, AM or FM modes).
[MENU] » VOICE
2. Touch the desired Voice memory key [T1] ~ [T8].



- Transmits the recorded content once.

①Information

- The transceiver automatically transmits.
- The Memory Timer counts down.
- The transceiver automatically returns to receive when all of the recorded content in the memory is transmitted.

3. To close the VOICE TX screen, push **EXIT**.

TIP: How to cancel a Voice TX transmission

- Touch any keys other than [TX LEVEL] on the VOICE TX screen
- Push **EXIT**, **V/M**, **▲**, or **▼**
- Touch the frequency's MHz digits or the Memory channel number
- Turn OFF the transceiver

①When "PTT Port Function" is set to "PTT Input," you can cancel transmitting the recorded audio by pushing [PTT] on the microphone.

When an external keypad is connected:

You can transmit the preset contents in the Voice TX memory (T1 ~ T4) from an external device by setting the "External Keypad," and then connecting an external keypad to [MIC] on the IC-7300.

①Memory "T5 ~ T8" cannot be sent from the external keypad.

[MENU] » SET > Connectors > External Keypad > VOICE

◊ Repeatedly transmitting

1. Open the VOICE TX screen in a Voice mode.
①(Voice mode: SSB, AM or FM modes).
[MENU] » VOICE
2. Touch the desired Voice memory key [T1] ~ [T8] for 1 second.



- Repeatedly transmits the recorded content.

①Information

- The transceiver automatically transmits.
- The Memory Timer counts down.
- "⟳" is displayed while repeatedly transmitting.
- Repeatedly transmits the recorded content for up to 10 minutes, at the interval specified in the "Repeat Time" item of the VOICE TX SET screen (p. 7-6).
- After 10 minutes have passed, and all of the recorded content in the memory is transmitted, the transceiver automatically returns to receive.
- When a signal is received while in the transmit interval, the transceiver pauses the next transmission until the signal disappears. However, if the squelch is set to open, the transceiver repeatedly transmits following the repeat interval even signals are received.

3. To close the VOICE TX screen, push **EXIT**.

TIP:

When an external keypad (pp. 2-2, 12-10) is connected, you can transmit the recorded content.

- When pushing one of [S1] to [S4] on the external keypad, the recorded content in T1 to T4 is transmitted once.
- When holding down a key for 1 second, the recorded content is repeatedly transmitted.

Transmitting a Voice TX memory (Continue)

◊ Adjusting the output level

Adjusts the Transmit voice level.

1. Open the VOICE TX screen in a Voice mode.
①(Voice mode: SSB, AM or FM modes).

[MENU] » [VOICE]

2. Touch [TX LEVEL].



- Opens the "TX LEVEL" window.
- 3. Touch any desired Voice memory key other than [T4] or [T8]. ([T1], [T2], [T3], [T5], [T6] or [T7])
 - The transceiver automatically transmits.
 - ①To adjust the Transmit voice level using [T4] or [T8], reverse steps 2 and 3 .
- 4. While transmitting, rotate **(MAIN DIAL)** to adjust the transmit voice level.

Touch for 1 second to
reset to the default setting



Rotate **(MAIN DIAL)**

- ①The transceiver automatically returns to receive when all of the recorded content in the memory is transmitted.
- ①Adjusting TX LEVEL too high may result in an over modulation and transmit signal distortion.
- 5. To close the VOICE TX screen, push **[EXIT]** several times.

TIP: How to cancel a Voice TX transmission

- Touch any keys other than [TX LEVEL] on the VOICE TX screen
- Push **[EXIT]**, **[VM]**, **[▲]**, or **[▼]**
- Touch the frequency's MHz digits or the Memory channel number
- Turn OFF the transceiver

VOICE TX SET screen

This Set screen is used to set the Automatic Monitor function and the Transmit Repeat Interval.

1. Open the VOICE TX screen in a Voice mode.
①(Voice mode: SSB, AM or FM modes).

MENU » **VOICE**

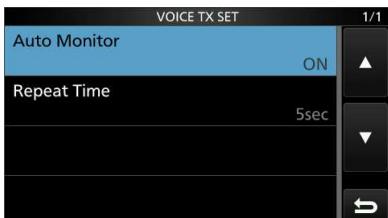
2. Touch [REC/SET].



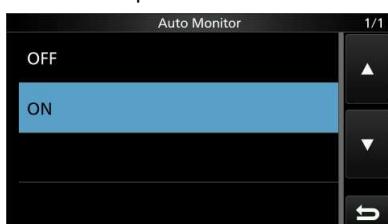
- Opens the REC/SET screen.
- 3. Touch the “SET” item.



- Opens the VOICE TX SET screen.
- 4. Touch the desired item.



5. Select the option or set the time.
①See to the upper right for details of the setting items and their options.



6. To close the VOICE TX screen, push **EXIT** several times.

TIP: How to reset to the default setting

Touching the item or its option for 1 second displays the Quick menu, and then touch “Default” to reset to the default setting.

Auto Monitor (Default: ON)

Turn the Automatic Monitor function for recorded audio contents transmission, ON or OFF.

- ON: Automatically monitors transmit audio when sending a recorded audio.
- OFF: Monitors transmit audio only when the Monitor function is ON.

Repeat Time (Default: 5 sec)

Set the repeat interval to repeat the voice transmission.

The transceiver repeatedly transmits the recorded content at this interval.

- ①Repeatedly transmits the recorded content for up to 10 minutes.
- ②After 10 minutes have passed, and all of the recorded content in the memory is transmitted, the transceiver automatically returns to receive.
- Range: Between 1 and 15 seconds