

IC-7700

Firmware update information— Ver. 1.10

Thank you for using the Icom Download Service.

Version 1.10 of the firmware will provide the following additional functions to your IC-7700.

- User programmable band edge warning beep with/without transmission inhibit capabilities (Upgraded)
- RTTY memory transmission (RT1 to RT4) with an external keypad (New feature)
- PSK memory transmission (PT1 to PT4) with an external keypad (New feature)
- TX VOICE transmission with a connected keyboard's [F1] to [F4] keys (New feature)
- KEYSER memory transmission with a connected keyboard's [F1] to [F4] keys (New feature)
- File saving format selection (New feature)

Before updating, see Section 16 UPDATING THE FIRMWARE in the IC-7700 instruction manual, for details.

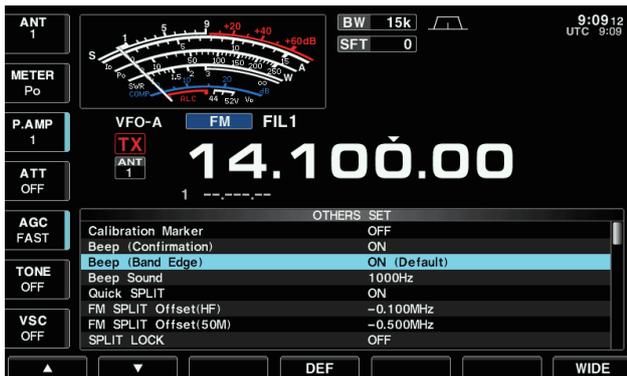
IMPORTANT!

Make a backup file of the transceiver's settings, such as stored memory channels, filter settings, before updating the firmware.

The CPU is reset when the firmware update is performed; the transceiver's memory contents will be lost and ALL settings will be returned to their default settings.

About the upgraded features

◇ User programmable band edge warning beep with/without transmission inhibit



These functions are added to the band edge warning beep options in the Others set mode, as shown below.

A different beep tone sounds when you tune in or out of an amateur band's frequency range. A regular beep sounds when you tune into a band, and a lower tone error beep will sound when you tune out of a band.

Also, the TX indicator shows if the selected frequency is in or out of an amateur band, when an option other than "OFF" is set.

- A TX indicator with a dotted rectangle, "TX" is displayed, instead of the regular "TX" TX indicator, when a frequency outside of an amateur band frequency range is selected.

Beep (Band Edge)

When you tune into or out of an amateur band's frequency range, a beep sounds. This function is independent of the confirmation beep setting.

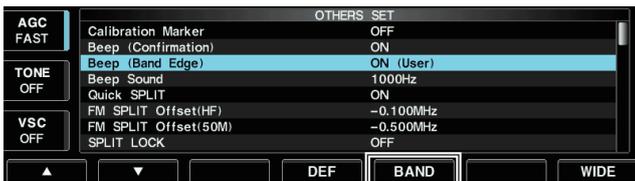
The beep output level can be set in the level set mode. (see page 12-6 of the IC-7700 instruction manual.)

When "ON (User)" or "ON (User) & TX Limit" is selected, [BAND] appears in the display above the function switch [F-5]. Up to 30 band edge frequencies can be programmed in the band edge screen. (see the next page for programming details.)

ON (Default)

- OFF : Band edge beep is OFF.
- ON (Default) : When you tune into or out of the default amateur band's frequency range, a beep sounds. (default)
- ON (User) : When you tune outside of, or back into a user programmed amateur band's frequency range, a beep sounds.
- ON (User) & TX Limit : When you tune outside of, or back into a user programmed amateur band's frequency range, a beep sounds. Transmission is also inhibited outside the programmed band.

• Band edge frequency programming



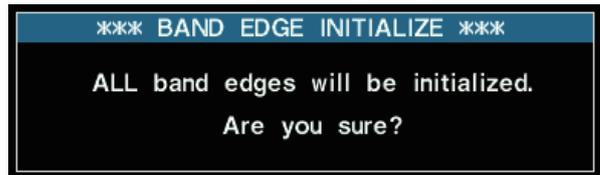
Appears when “ON (User)” or “ON (User) & TX Limit” is selected.

- Band edge screen



- ① Select the Others set mode and select the “Beep (Band Edge)” option.
- ② Rotate the main dial to select either the “ON (User)” or “ON (User) & TX Limit” setting.
 - [BAND] appears above [F-5].
- ③ Push [BAND] [F-5] to open the band edge screen.
- ④ Push [▲] [F-1] or [▼] [F-2] to select the desired band edge.
 - Push [◀▶] [F-3] to select the upper and lower band edge frequency entry cell.
 - Push [INS] (MF6) to insert a new blank band edge line.
 - Push and hold [DEL] (MF7) for 1 sec. to delete the selected band edge line.
- ⑤ Push [F-INP ENT], and then input the desired frequency with the keypad.
 - Push [GENE.] to input decimal point (“.”) between the MHz and kHz digits.
 - Program each channel from left to right and each frequency must be higher than the preceding frequency.
 - The frequency that is duplicated, or out of an amateur band, cannot be programmed.
 - If you want to return the band edge frequencies to their default (initial) value, push and hold [DEF] [F-4] for 1 sec.

The band edge initialize screen appears as shown below, then push and hold [OK] [F-6] for 1 sec. to initialize all band edge frequency settings.



- ⑥ Push [F-INP ENT] to set the input frequency.
- ⑦ Push [EXIT/SET] to exit the set mode.

■ About the new features

◇ RTTY/PSK memory transmission (RT1 to RT4/ PT1 to PT4) with an external keypad

Both RTTY (RT1 to RT4) and PSK (PT1 to PT4) memory transmission with an external keypad, capabilities are added. These functions can be turned ON or OFF in the Others set mode as follows.

External Keypad (RTTY)

Sets the external keypad for RTTY memory transmission capability ON or OFF.

NOTE: Only RTTY memory channels RT1, RT2, RT3 and RT4 can be transmitted using the external keypad.

See page 2-7 in the IC-7700 instruction manual for the equivalent circuit of an external keypad and connection details.

OFF

- ON : In the RTTY mode, and while the RTTY decode screen is active, pushing one of the external keypad switches transmits the desired RTTY memory contents.
- OFF : The external keypad does not function. (default)

External Keypad (PSK)

Sets the external keypad for PSK memory transmission capability ON or OFF.

NOTE: Only PSK memory channels PT1, PT2, PT3 and PT4 can be transmitted using the external keypad.

See page 2-7 in the IC-7700 instruction manual for the equivalent circuit of an external keypad and connection details.

OFF

- ON : In the PSK mode, and while the PSK decode screen is active, pushing one of the external keypad switches transmits the desired PSK memory contents.
- OFF : The external keypad does not function. (default)

◇ TX VOICE/KEYER memory transmission with the keyboard

Both TX VOICE (T1 to T4) and KEYER (M1 to M4) memory transmission with the connected keyboard capabilities are added. These functions can be turned ON or OFF in the Others set mode as follows.

Keyboard [F1]–[F4] (VOICE)

Sets the voice message transmission capability when one of the [F1] to [F4] keys of the connected keyboard is pushed, to ON or OFF.

OFF

- ON : Pushing one of the [F1] to [F4] keys transmits the desired voice message contents during phone mode operation.
- OFF : [F1] to [F4] keys do not function. (default)

Keyboard [F1]–[F4] (KEYER)

Sets the keyer memory transmission capability when one of the [F1] to [F4] keys is pushed, to ON or OFF.

OFF

- ON : Pushing one of the [F1] to [F4] keys transmits the desired keyer memory contents during CW mode operation. And while pushing the [SHIFT] key, push [F1] to [F4] keys to transmit the desired keyer memory contents repeatedly.
- OFF : [F1] to [F4] keys do not function. (default)

◇ File saving format selection

This function is added in the Save option set mode (see pgs. 12-19, 12-20). To save settings and memory contents for backup or copying to another IC-7700, you must save the data in the firmware version format that matches the target IC-7700. Select "NOW Ver" for the latest version, or "Old Ver (xxx - xxx)" for old versions.

SAVE Form

Selects file saving format between "Now Ver" and "Old Ver." (default: Now Ver)

Previous versions will be retained, and selectable in "Old Ver," and indicated in brackets.

Now Ver

- Now Ver : Saves the file in the firmware version format currently being used.
- Old Ver : Saves the file in the firmware version format that is indicated in brackets.

Firmware confirmation

The firmware version of the IC-7700 can be confirmed during turning power ON.

- The firmware version appears at the right bottom corner.



1.10 ← Firmware version