

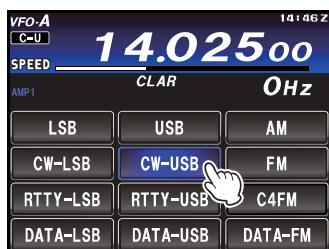
CW MODE OPERATION

The powerful CW operating capabilities of the **FT-991A** permit operation using an electronic keyer paddle, a “straight key”, or a computer-based keying device.

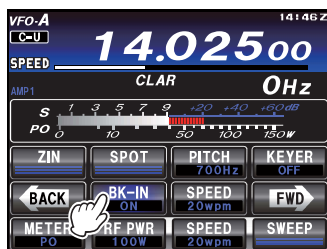
SETUP FOR STRAIGHT KEY (AND STRAIGHT KEY EMULATION) OPERATION

Before starting, connect your key line(s) to the front panel **KEY** jack. Be sure **[BK-IN]** displayed by pressing the **F(M-LIST)** button is turned off for now.

1. Press the **MODE** button, then touch **[CW-LSB]** or **[CW-USB]** on the TFT LCD display. The “**C-L**” or “**C-U**” icon will appear in the display. The CW monitor is activated.

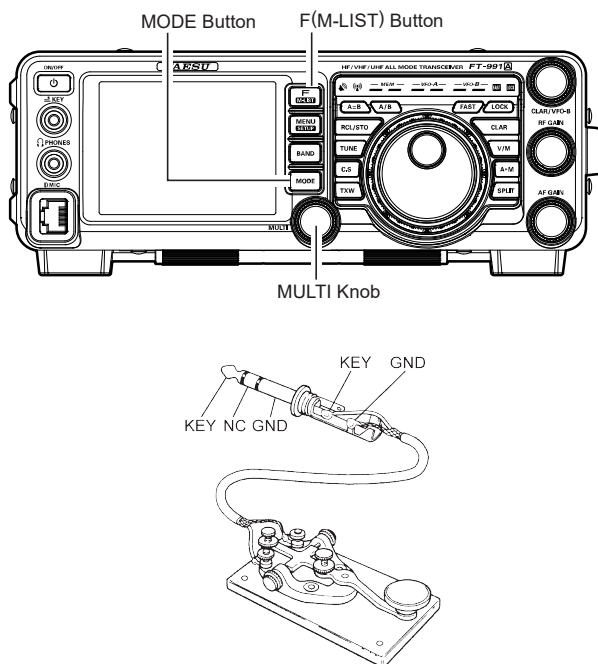


2. Rotate the Main Tuning Dial knob to select the desired operating frequency.
3. Press the **F(M-LIST)** button, then touch **[BK-IN]** on the LCD to engage automatic activation of the transmitter when you close the CW key. The Break-in will be set to “ON”.



ADVICE:

- ❑ When you close the CW key, the transmitter will automatically be activated, and the CW carrier will be transmitted. When you release the key, transmission will cease, and after a brief delay, receive will be restored. The delay time is user-programmable per the discussion on page 85.
 - ❑ As shipped from the factory, the **FT-991A** TX/RX system for CW is configured for “Semi-break-in” operation. However, using Menu item “056 CW BK-IN TYPE”, you may change this setup for full break-in (QSK) operation, whereby the switching is quick enough to hear incoming signals in the spaces between the dots and dashes of your transmission. This may prove very useful during contest and traffic handling operations.
4. CW operation using the CW key may now proceed.



ADVICE:

- ❑ The CW sidetone audio level may be adjusted by setting “MONITOR” (see page 74).
- ❑ You may practice sending CW listening to the sidetone only, without having the signal transmitted out over the air, if you press the front panel **F(M-LIST)** button to reveal the functions list on the TFT LCD display, and then touch the **[BK-IN]** button to set break-in to Off.
- ❑ If you reduce transmit power via the **[RF PWR]** function that may be displayed by pressing the **F(M-LIST)** button, the ALC meter reading will increase; this is normal and does not indicate any problem whatsoever (because increased ALC voltage is being used to lower the power).
- ❑ To enable the keying operation in LSB/USB mode and send the CW signal without switching to CW mode, change Menu item “055 CW AUTO MODE”.
- ❑ The same frequency may be displayed when switching between SSB mode and CW mode by setting Menu item “059 CW FREQ DISPLAY”.
- ❑ By connecting the **FT-991A** to a computer, CW can be operated using free or commercially available software and setting Menu item “060 PC KEYING”.