FT-891 Quick Manual

RF/SQL knob

Rotate this knob counterclockwise. ➡ The background noise and the system gain will be reduced.
○ Rotate the knob slightly counter-clockwise to the point where the "stationary" meter indication is set just about the same as the incoming noise level.
○ This control may be changed to function as the squelch control by selecting "**SQL**" on Menu Mode "**05-05** [**RF/SQL VR**]".

[PWR/LOCK] key

Press and hold this key. ➡ Turns the transceiver ON or OFF.
Briefly press the key while the transceiver is ON. ➡ this key toggles the **MAIN DIAL** knob lock ON/OFF.

AF Knob

The (inner) **AF** knob adjusts the receiver audio volume level of the internal or external speaker. Clockwise rotation increases the volume level.

MAIN DIAL

Rotate this knob clockwise to increases the operating frequency and rotate it counterclockwise to decrease the operating frequency.
○ Pressing the [**FAST**] key will change the tuning of the **MAIN DIAL** to a higher step rate.
○ Pressing [**PWR/LOCK**] key briefly will engage or release the **DIAL** knob lock.

MULTI function knob

● **Adjusts the operating frequency of VFO-A in 500 kHz Steps (except for AM and FM mode)**
  Repeatedly press this knob momentarily until the "▧" is displayed. ➡ Rotate this knob.
● **Adjusts the operating frequency of VFO-B**
  Repeatedly press this knob momentarily until the "▣" is displayed. ➡ Rotate this knob.
● **Operates the [A]/[B]/[C]/[CLAR] key function**
  The default assignment of the [**A**] key is the IF SHIFT function.
  Press the [**A**] key. ➡ IF SHIFT pop-up screen appears ➡ Rotate this knob to Adjust the DSP filter passband.
  ○ Press and hold this knob to restore the IF SHIFT setting to the factory default.
● **Selects the Desired memory channel**
  When the "MEMORY CHANNEL" list screen is displayed, the desired memory channel can be selected by rotating and pressing this knob.
● **Switches the function ON or OFF through the "Setting/ Function" Modes**
  Rotate this knob to operate "Setting/Function" Modes are displayed by pressing [**F**] key.
  - Menu Selection (Rotate this knob)
  - Switching the function ON or OFF (Press this knob)
  - Changing setting values (Press this knob and rotate it)
● **Changes the Menu Mode setting values**

[CLAR] key

Press this key. ➡ Rotate the **MULTI** function knob ➡ Adjust the VFO-A RX clarifier offset value up to ±9.998 kHz.
This feature is ideal for following a drifting station, or for setting the small frequency offsets sometimes utilized in DX "Split" work.
○ The clarifier offset value (frequency) can be restored to "0 (zero)" by pressing the **MULTI** function knob for more than one second.
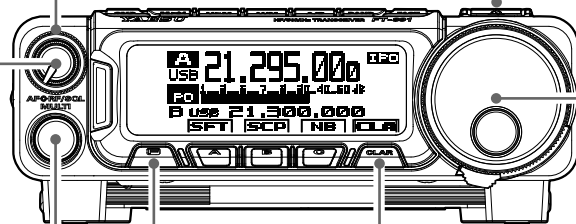
[F] key

Press this key. ➡ Switch through the "Setting/Function" Modes as follows

➡ **FUNCTION-1** ➡ **FUNCTION-2** ➡ **CW SETTING** ➡

○ Select the desired function from the "Function/Setting" Mode, and then press the **MULTI** function knob to switch the function ON or OFF.
○ Assigns "Function/Setting" Modes to the [**A**]/[**B**]/[**C**] keys, rotate the **MULTI** function knob to select the desired function on the "Setting/Function" Mode, and then press and hold the [**A**]/[**B**]/[**C**] key.
○ FM SETTING, REC SETTING and ATAS SETTING function screens may be enabled via Menu mode "**05-10**", "**05-11**" or "**05-12**".

Press and hold this key. ➡ Activating the Menu Mode.

[QMB] key

Press and hold this key for more than one second to write the frequency and the data presently set for VFO-A onto the quick memory bank (QMB).
○ Once all 5 QMB memories have data on them, previous data will be over-written on a first-in, first-out basis.
○ 5 QMB memory channels are provided. Press this key briefly to recall the data written onto the quick memory banks (QMB) one by one.
○ To change the frequency in the recalled quick memory bank (QMB), rotate the MAIN DIAL.

[M▶V] key

This key will copy the saved data from the written memory channel to VFO-A.
Press this key. ➠ The "MEMORY CHANNEL" list screen is displayed. ➠ Press the **MULTI** function knob to select the desired channel ➠ Press this key. ➠ The currently selected memory channel data is copied to VFO-A.

[V▶M] key

This key is to save the data from VFO-A to the memory channel.
Press this key. ➠ The "MEMORY CHANNEL" list screen is displayed. ➠ Press the **MULTI** function knob to select the desired channel. ➠ Press this key. ➠ The current operating data is copied to the selected memory channel.
○ When the "MEMORY CHANNEL" list screen is displayed, press the [**A**]/[**B**]/[**C**] key to edit the selected memory channel.

[V/M] key

This key toggles frequency control between the VFO and the memory systems.

○ When the memory channel data is recalled, the Memory channel number is displayed like "**M01**". The previously selected Memory Channel is recalled.
○ Rotate the **MULTI** function knob to change the memory channel number.
○ While operating on a memory channel, Rotate **MAIN DIAL**. ➠ the "Memory Channel Number" will be replaced by the MEMORY TUNE indicator "**MT**".
"**MT**" indicates that the operating frequency in the Memory Channel is temporarily changed.
Press [**V/M**] key in this state. ➠ Previous memory channel data is restored.

[A/B] key

Press this key. ➠ The frequency and memory channel data, of VFO-A and VFO-B are exchanged.
Press and hold this key. ➠ The frequency and data values of VFO-A are copied to VFO-B.
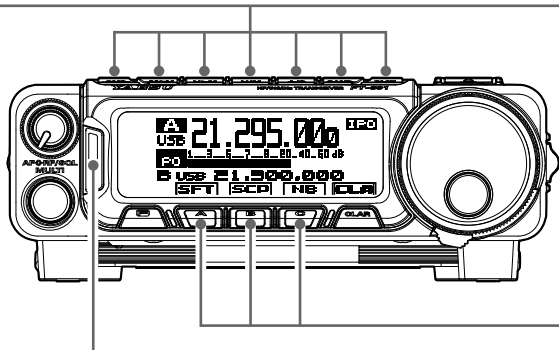
[BAND(MODE)] key

Press this key. ➠ The "BAND SELECT" screen will appear in the display. ➠ Rotate the **DIAL** knob to select the desired frequency band (operating band). ➠ The selected frequency band is set automatically in one second and the display returns to normal operation.
Press and hold this key. ➠ The "MODE SELECT" screen will appear in the display. ➠ Rotate the DIAL knob to select the radio modulation form (operating mode). ➠ The selected mode is set automatically in one second and the display returns to normal operation.

[FAST] key

Pressing this key will change the tuning of the **MAIN DIAL** to a higher step rate.
Press this key. ➠ "**FST**" is displayed. ➠ The main dial frequency tuning rate doubles.

TX/BUSY Indicator

The Indicator glows green: On receiving signals while the squelch opens.
The Indicator glows blue: While Zeroing during CW mode.
On receiving a signal with a CTCSS/DCS tone matching the squelch tone code setting of the transceiver.
The Indicator glows red: When transmit is engaged.

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[A]/[B]/[C] keys

These three keys are user programmable, allowing quick access to often used features.
○ [**A**]/[**B**]/[**C**] keys are assigned the following functions as default settings:

● **[A] (SFT): IF SHIFT function**
IF SHIFT permits moving the DSP filter passband higher or lower, without changing the pitch of the incoming signal, and thus reduces or eliminates interference.
Press this key ➠ The IF SHIFT screen will appear in the display ➠ Rotate the **MULTI** function knob to the left or right to reduce interfering signals.
Press and hold the **MULTI** function knob to restore the IF SHIFT setting to the factory default.

● **[B] (SCP): The SCOPE function**
The SCOPE function provides a spectrum display of the band conditions.
Press this key. ➠ the band condition (spectrum) is displayed.
When the SCOPE function is active, the [**A**]/[**B**]/[**C**] keys are automatically changed to the below operations.
[**A**](SPN) key: This key changes the displayed bandwidth. Available selections are 750 kHz, 375 kHz, 150 kHz, 75 kHz, or 37.5 kHz ranges.
[**B**](SWP) key: Each time the [B](SWP) key is pressed, a new scan of the spectrum scope is shown on the LCD display.
[**C**](LV1-3) key: This key changes the reference level.
○ While the Spectrum Scope is activated, Press the **MULTI** function knob, and then rotate it to adjust the operating frequency tuning steps of VFO-A by the 500 kHz.

● **[C] (NB): Noise Blanker function**
The IF Noise Blanker can significantly reduced noise that is caused by automotive ignition systems.